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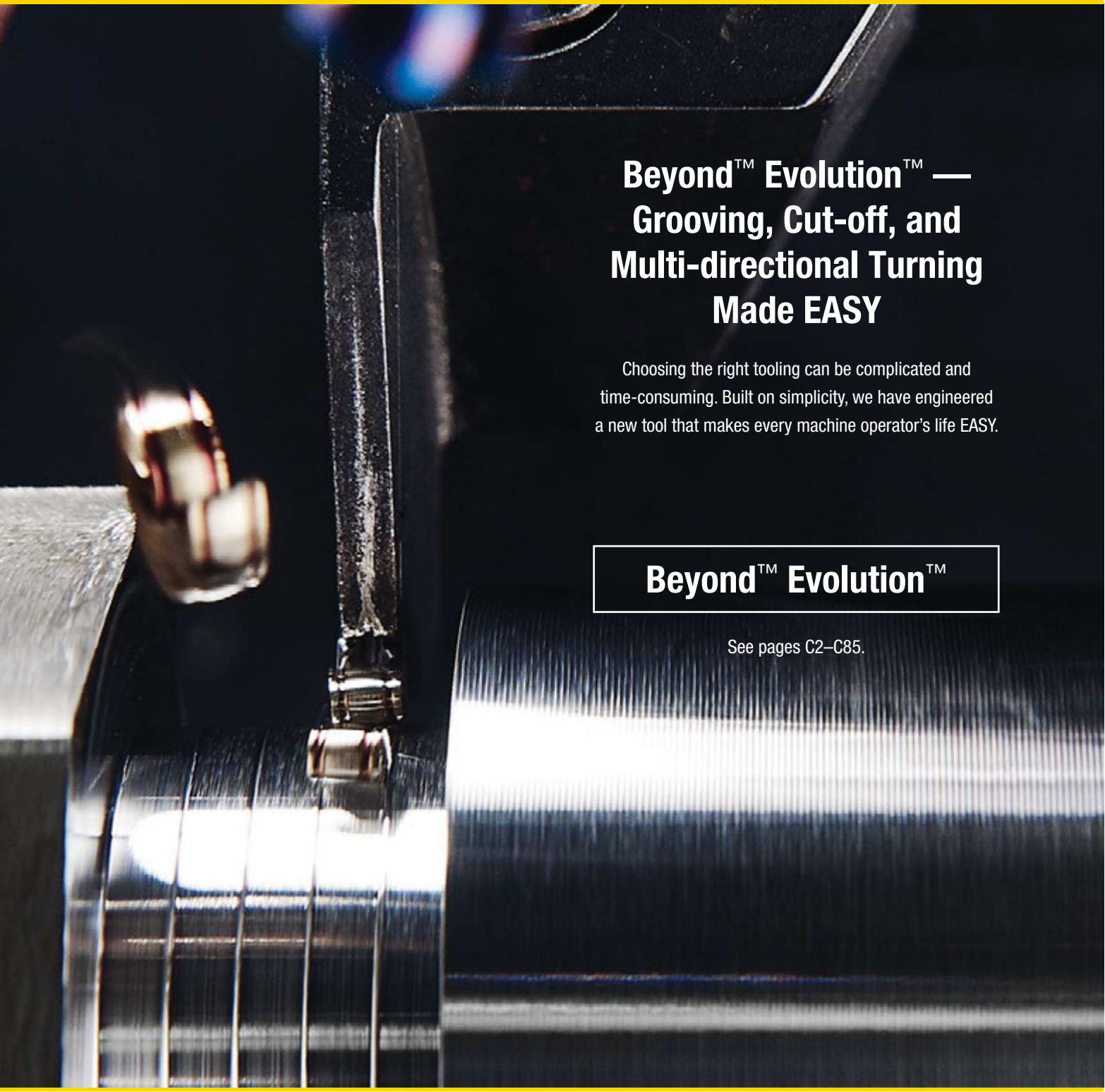
KENNAMETAL®

MASTER CATALOG 2018

VOLUME ONE | **TURNING** TOOLS

ISO/ANSI TURNING | GROOVING & CUT-OFF | THREADING | APPLICATION SPECIFIC

KENNAMETAL



Beyond™ Evolution™ — Grooving, Cut-off, and Multi-directional Turning Made EASY

Choosing the right tooling can be complicated and time-consuming. Built on simplicity, we have engineered a new tool that makes every machine operator's life EASY.

Beyond™ Evolution™

See pages C2–C85.

Since its inception in 1938, Kennametal has understood precisely how to improve manufacturing performance and profitability — by introducing unparalleled products and services to reduce operating costs and lead times.

These 1000+ pages bring you the latest in turning products and superior services — specifically engineered to enhance overall productivity, even in the most challenging metalworking applications.

Rely on Kennametal to significantly boost manufacturing competitiveness. To learn more, contact your Kennametal Representative or Authorized Kennametal Distributor.

Visit us at **kennametal.com**.

POWERED BY NOVO™

KENNAMETAL

Volume I • Turning Tools

This Catalog Consists of Two Volumes — Vol. I: Turning Tools / Vol. II: Rotating Tools

Turning Tools

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Turning

PRODUCT HIGHLIGHTS

BEYOND™ EVOLUTION™

See section C for more details.

Kennametal proudly introduces the Beyond™ Evolution™ platform. This innovative platform is built on simplicity and challenges today's approach to grooving and cut-off. Selecting the right tool is easy with the Beyond™ Evolution™ platform because this high-performance system is versatile and flexible. It is the first portfolio in the market to compete in all grooving and cut-off applications, with up to 35% less tooling than current competitors.

The proprietary coolant delivery system directs coolant precisely to the cutting edges underneath the chip, which is the best method for heat removal in grooving and cut-off applications.

beyond™ EVOLUTION™

BEYOND™ DRIVE™

See section B for more details.

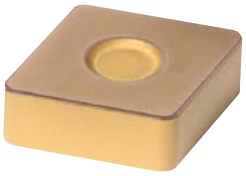
Beyond™ Drive™ ISO turning inserts provide up to 50% improved insert edge utilization. The advanced surface treatment reduces coating stress and improves coating adhesion. The bronze outer layer simplifies wear detection and increases insert utilization. PVD grades KCU10™ and KCU25™ with Beyond™ technology resist the high temperatures of machining in tough alloys. Achieve up to 30–40% longer tool life for more profitability in general engineering, transportation, aerospace, energy, and earthworks markets. The PVD coating helps to maintain consistent chip control and minimize insert edge wear in turning, grooving, and cut-off operations in a wide range of materials and applications.

beyond™ DRIVE™

CAST IRON TURNING WITH KBK45™

See section B for more details.

KBK45 is a new high-content PcBN grade designed for high-performance machining of gray cast iron, such as brake discs and fly wheels. It is designed for reducing waste of unused corners, reducing cost-per-part (CPP) by maintaining tool changes between shifts, and enhancing output by using more reliable products. KBK45 grade provides an excellent CPP value.



HARD TURNING WITH KBH20™

See section B for more details.

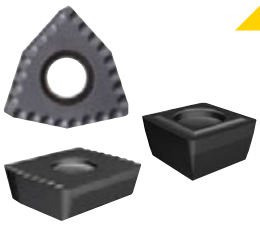
KBH20 is the ideal PcBN hard turning grade in continuous to lightly interrupted applications with up to medium-severity interruption. The structure and different edge preparations enable tight and repeatable workpiece tolerances, excellent surface finishes, and surface integrity — even at elevated speeds.

KBH20 grade is a new substrate for applications like case-hardened components, including gears, shafts, and other drive-train components.

The nano-composite coating enhances speed capabilities and tool life. The improved edge preparation promotes longer tool life, reliable performance, and better surface finish.

Holemaking

PRODUCT HIGHLIGHTS



DRILL FIX™ DFSP™

INDEXABLE DRILLS WITH DS AND LP INSERTS

See section J (Volume II) for more details.

DFSP is the renamed expanded Drill Fix DFS™ indexable drilling platform. The standard diameter range is now .551–2.125" (14–55mm) in L/D ratios 2 x D, 3 x D, 4 x D, and 5 x D. The DFSP platform combines the economical squared outboard insert with the superior centering capabilities of the trigon inboard insert. These indexable drills offer increased metal removal rates and high surface quality and hole straightness.

Use new DS and LP chipbreaker insert designs with Drill Fix DFSP, DFT™, and HTS indexable drills, and KSEM PLUS™ modular drills. These inserts enable excellent chip formation on low-carbon steels and other long-chipping materials.

KENTIP™ FS

THE PERFECT FUSION OF A SOLID CARBIDE AND AN INDEXABLE DRILL

See section H (Volume II) for more details.

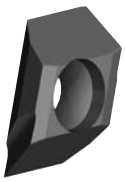
The new modular drill KenTIP FS covers more applications and provides better performance than any other modular system, delivering substantial cost savings and process simplifications on your shop floor.

- 3-point geometries, 3 high-performance grades, 3 different shank styles.
- 6–26mm diameter range.
- Up to 12 x D drilling depths.
- Applicable in steel, stainless steel, and cast iron.

COUNTERFIX MICRO

SMALL INSERTS THAT MAKE A BIG DIFFERENCE!

See section H (Volume II) for more details.



New CounterFix Micro (CFM) tangential inserts offer a new way to enhance drilling, chamfering, and counterboring operations. They enable very small incremental steps on tailor-made step drills, longer tool life per edge, and improved surface finish.

CFM inserts can be used on KenTIP, KSEM™, and Drill Fix products, as well as for made-to-order indexable countersinking tools.

CounterFix Micro will be available for KenTIP FS tailor-made drills in 2018 upon request.

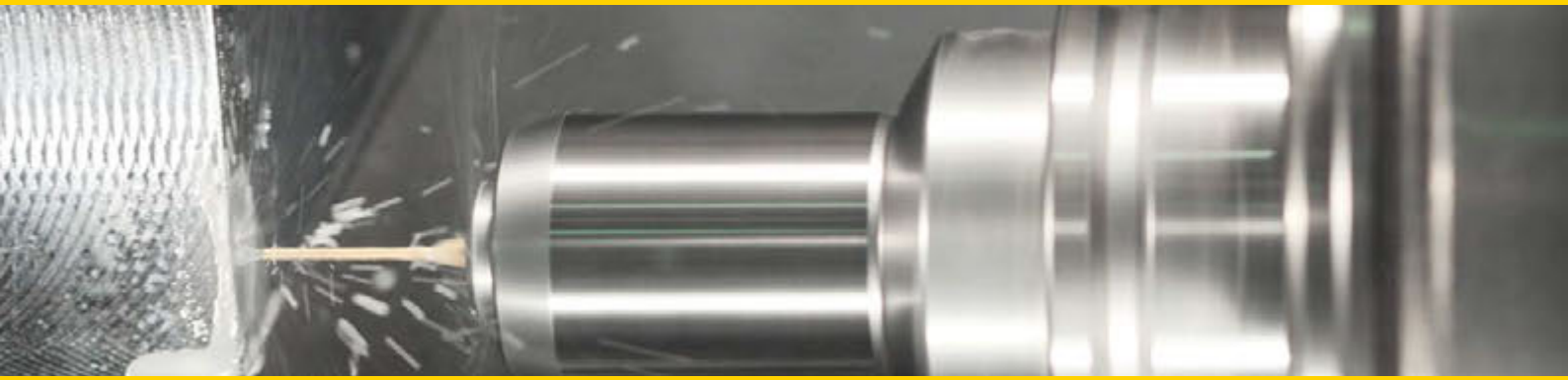
NEW SGL DRILLS WITH THROUGH COOLANT FOR STAINLESS STEEL

See section G (Volume II) for more details.

The all-new B21_SGL series solid carbide drills are designed specifically for stainless steel applications, offering high performance and long tool life in high-temperature alloys and regular steel, also.

By combining unique Kennametal features, such as the all-new SGL-point-geometry with patented gashing, a unique flute design, and a best-in-class coating into one tool, the B21*SGL drill is the ultimate high-volume production tool.

The all-new B27_SGL series is designed specifically for deep-hole drilling up to 40 x D applications in stainless steel and high-temperature alloys.



NEW KMH DRILLS FOR HARD MATERIALS

See section G (Volume II) for more details.

The all-new KMH solid carbide drills are engineered for hard material applications up to 65 HRC. The B94_drill series without through coolant is specifically designed to machine hardened and surface-hardened materials using flood coolant. With its 145° point angle, it is also perfectly suited as a pilot drill for the B95_drill series with through coolant and 140° point for deeper applications.

Both series come with an increased core to strengthen the drill, feature a curved cutting edge with corner chamfer to avoid chipping on the margin lands and increased tool life in these challenging materials.

RMR™ AND RHR™ DISC-STYLE REAMERS

See section K (Volume II) for more details.

Performance, quality, and regrindability, like solid carbide reamers for diameters .5512–1.6732" (14–42,5mm).

Common reamers have single tips brazed onto a steel body. The new Kennametal RMR and RHR reamers have a solid carbide disc brazed onto the steel body. This enables more regrinds than a regular tipped reamer, reducing the cost-per-hole significantly. The new KCU05 coating holds the surface finish more than twice as long as conventional reamer coatings, depending on the workpiece material.

GOTAP™

MULTIPURPOSE HSS-E TAPS

See section M (Volume II) for more details.

GOtap is our multipurpose line of taps that include optimized geometries and PVD coatings capable of tapping a wide range of ductile materials, such as stainless steels, carbon and alloy steels, cast aluminum, and ductile iron. GOtap taps versatility extends beyond the part, as it can be used in a wide range of machine tools and application conditions. The new GOtap TC mulitpurpose taps enable blind-hole tapping with tension/compression holders without sizing problems due to over-feeding. The versatility of GOtap taps means lower inventory costs with no loss of productivity, consistent tool life, and high-quality thread finish.

Solid End Milling

PRODUCT HIGHLIGHTS

DUO-λOCK®

See section O (Volume II) for more details.

Duo-Lock™ is a revolutionary new coupling for solid carbide end milling applications. This replaceable-head design combines high accuracy in runout and length repeatability with maximum stability, making it a precise and virtually unbreakable interface for challenging milling applications.

- **Up to 1 x D full slotting increases metal removal rates for significantly higher productivity.**
- **1.5 x D standard cutting edge length enables fewer passes.**
- **Cutting data and tool life comparable to high-performance solid carbide tools.**

DUO-λOCK®
by HAIMER® and Kennametal

HARVI™ III FAMILY

See section P (Volume II) for more details.

HARVI III end mills are the first choice for high-temperature alloy machining, profiling, semi-finishing, and finishing. Beyond grade KCSM15™ delivers maximum metal removal rates and exceptional tool life in titanium and stainless steel, as well as excellent surface finishes.

- **Taper ball nose for complex 5-axis machining.**
- **Ball nose for 3D profiling.**
- **Square end for semi-finishing/finishing operations.**

beyond

BEYOND™ EADE SOLID CERAMIC END MILLS

See section P (Volume II) for more details.

Beyond™ EADE solid ceramic end mills offer higher productivity in roughing nickel-based high-temperature alloys. With reduced machining time, EADE ceramic end mills also achieve significantly longer tool life compared to carbide tooling.

— Beyond grade KYS40™ enables cutting speeds up to 3.300 SFM.

beyond

GOMILL™ GP PLATFORM

See section Q (Volume II) for more details.

GOmill GP tools enable plunging, slotting, and profiling, plus longer tool life, on a wide range of workpiece materials. They are designed to provide higher metal removal rates (MRR) and good surface finishes at an excellent cost-benefit ratio.

— Roughing and finishing with one tool.
— Excellent cost-benefit ratio.
— Multilayer KC633M™ grades for longer tool life.

Indexable Milling

PRODUCT HIGHLIGHTS

MILL 4-11™ AND MILL 4-15™

See section T (Volume II) for more details.

The Mill 4-11™ and Mill 4-15™ series tools are specially engineered to achieve excellent surface quality and higher metal removal rates in shoulder milling applications. The unique design enables multiple passes (stepping down) with outstanding results.

Use Mill 4-11 in roughing to finishing applications in steel, cast iron, stainless steel, non-ferrous materials, and high-temp alloys. Use Mill 4-15 for roughing to finishing in steel, cast iron, stainless steel, and titanium.

MILL 16™

See section S (Volume II) for more details.

The new Mill 16™ series is a tailor-made platform for rough milling of components like engine heads and blocks, housings and gear boxes in cast iron materials (CGI, DCI, GCI), and all other cast iron face milling jobs.

KCSM40™

NEW MILLING GRADE FOR TITANIUM MACHINING

Breakthrough indexable milling grade for roughing and semi-finishing operations in titanium and stainless steels — S40, M30 application range.

Available in these indexable milling platforms: Mill 1-10™, Mill 1-14™, Mill 1-18™, Mill 4-11™, Mill 4-15™, Dodeka™ Mini, Dodeka, Dodeka MAX™, MEGA™, KSOM™ Mini, KSOM™, KSRM™, NGE™, KSSM™ 0, KSSM8+™, Rodeka™, Stellram® 5230, Stellram 7713, and Stellram 7792.

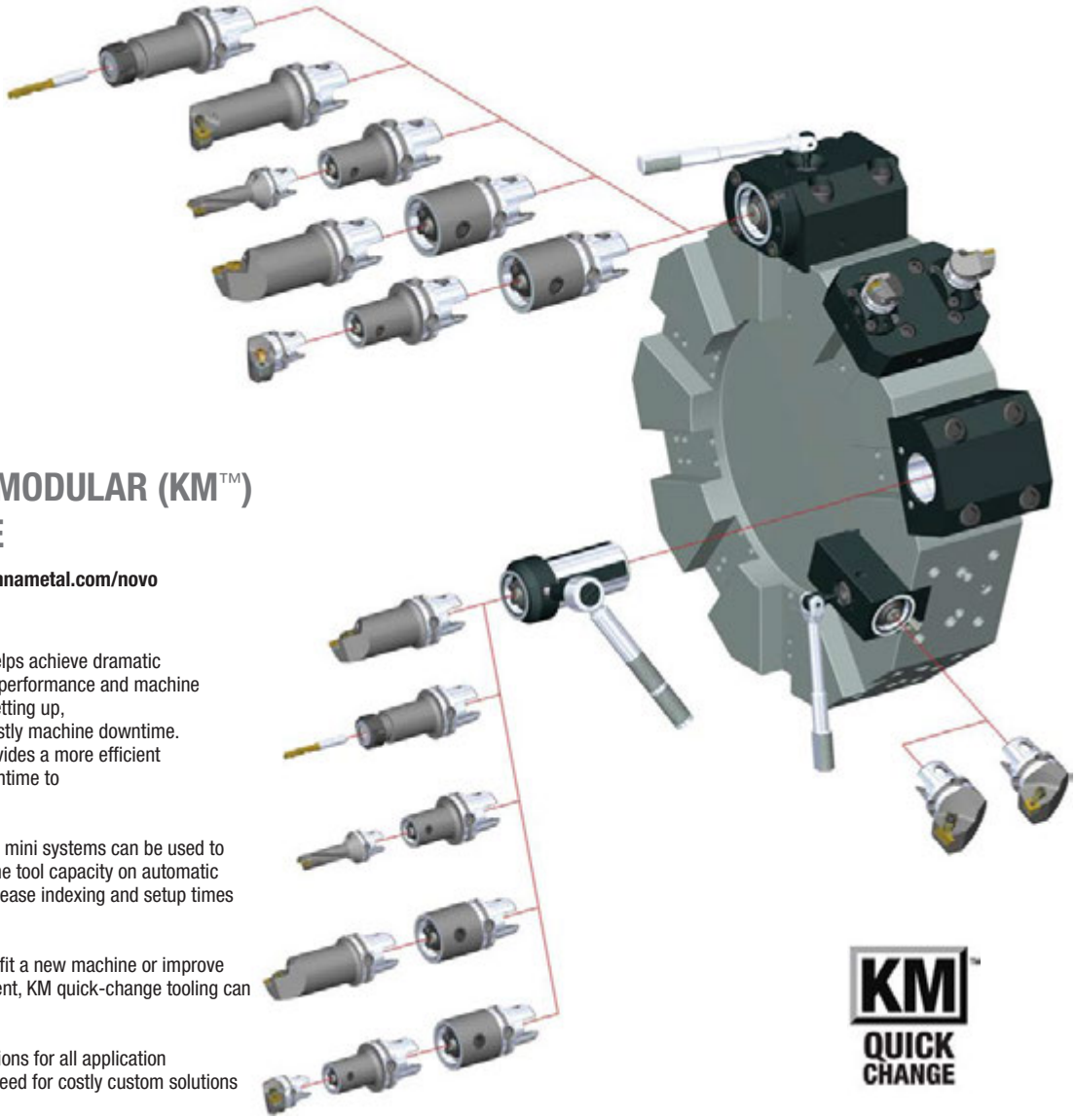
STELLRAM® 7792VX HIGH-FEED SERIES

See section V (Volume II) for more details.

The 7792VX cutter series is designed for high-feed milling applications with superior surface generation. The 7792VX cutters are designed for a wide range of applications, including facing, pocketing, ramping, helical interpolation, and plunging. They are capable of machining all materials, including steel, stainless steel, cast iron, and high-temperature and aluminum alloys.

Tooling Systems

PRODUCT HIGHLIGHTS



KENNAMETAL MODULAR (KM™) QUICK CHANGE

Visit **kennametal.com** or **kennametal.com/novo** for more details.

KM™ quick-change tooling helps achieve dramatic improvements in cutting tool performance and machine output. Frequent changing, setting up, and gaging of tools create costly machine downtime. KM quick-change tooling provides a more efficient process that can reduce downtime to increase productivity.

In addition, KM micro and KM mini systems can be used to considerably increase machine tool capacity on automatic and universal lathes and decrease indexing and setup times by up to 66%.

Whether you're looking to outfit a new machine or improve the output of current equipment, KM quick-change tooling can maximize production.

The KM portfolio includes options for all application requirements and limits the need for costly custom solutions due to system modularity.

KM QUICK CHANGE

KM4X™

Visit **kennametal.com** or **kennametal.com/novo** for more details.

The KM4X spindle interface is designed for heavy-duty machining applications. It's especially suited for machining large structural components. These rotating and static tool adapters handle 3x more bending capacity than similar competitive models.

- Rigid configuration through higher clamping force.
- Design enables front-loaded spindle configurations.
- High spindle speed capability.
- Designed for use in most applications.
- Use in a wide range of high and low speeds and torques.
- Can upgrade to the KM4X system on spindles that use HSK format.
- Maintain taper contact in higher speeds.

DRIVEN TOOLING AND STATIC TOOL BLOCKS

Visit **kennametal.com** or **kennametal.com/novo** for more details.

Turn your CNC lathe into a multi-task solution provider with turret-adapted driven clamping units for rotating applications and static tool blocks for maximum quick change flexibility. Whether it's for milling, drilling, tapping, boring, or non-rotating applications, you can maximize machine utilization by employing Kennametal tooling and solutions. Available in multiple KM™ format sizes to allow for versatility and productivity.

- 0 and 90° options available as standard.
- Up to 12,000 RPM speeds for high metal removal rates.
- 1:1 and 1:2 gear ratios available for added speed or torque.
- Standard configurations for multiple manufactures and customizable to fit most turrets.
- Quick change solutions for static and rotating applications to maximize machine effectiveness.

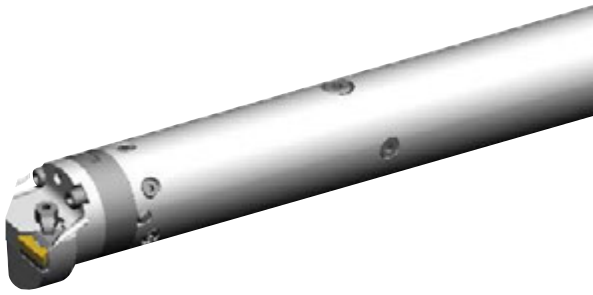
TUNABLE BORING

Visit **kennametal.com** or **kennametal.com/novo** for more details.

Kennametal tunable boring bars can increase productivity and solve chatter and other issues in long-boring operations.

Several key improvements to our current tunable boring bar portfolio include:

- Enhanced tuning process at the manufacturing plant ensures accurate tuning at the maximum overhang.
- Nitriding of steel tunable boring bars eliminates the effects of chip wash.
- Elimination of flats on tunable boring bars enhances stability and proper toolholding.
- Addition of a small flat on the connection collar enables the use of a center-height tool.
- Enhanced assembly process.



Kennametal on the Web

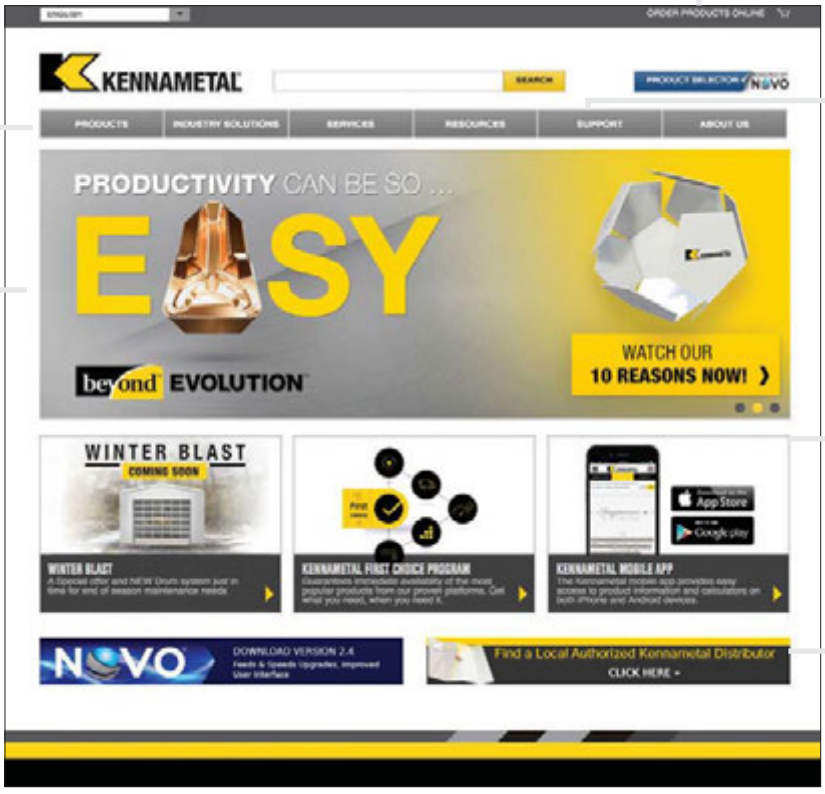
kennametal.com

FIND THE LATEST PRODUCT INFORMATION

Whether your operation is turning, milling, or holemaking, Kennametal brands are the high-performance tooling you need. We offer standard and custom solutions for a wide range of applications.

Find information about our most current campaigns and catalogs.

Register on Konnect for the full functionality of the Kennametal online ordering website.



CONTACT US

Our customers are important to us. We want to provide you the best customer service in the industry. If you have a comment or question, please send it to us. We strive to respond to all inquiries within 24 hours.

FIND A LOCAL AUTHORIZED DISTRIBUTOR IN YOUR AREA

Kennametal offers world-class products and services globally. Our distributors know us, and more importantly, they know you. They know better than anyone in the industry how to put the global power of Kennametal to work for you — in your industry, in your region, and for your business.

Mobile App

The Kennametal mobile app makes it easy to access product information, calculators, and much more from iPhone® and Android™ devices.

FEATURES

Scan a Kennametal tool package barcode or search a product catalog number to access complete product information.

Product information includes tool image, dimensions, grades, and product highlights.

View product availability at global locations.

Get speed and feed information in inch and metric values for all metalcutting products.

View tech tips for helpful solutions to common machining questions.

Contact Customer Support directly from the app.

MACHINING CALCULATORS

View data for milling and drilling applications.

Inch and metric values calculated.

ORDERING

Login using your Konnect credentials to complete a purchase.

WHERE TO FIND IT

Download the free app today from iTunes® or the Google Play™ store.

ANDROID APP ON Google play

Available on the App Store

Service and Support

Customer Application Support (CAS)

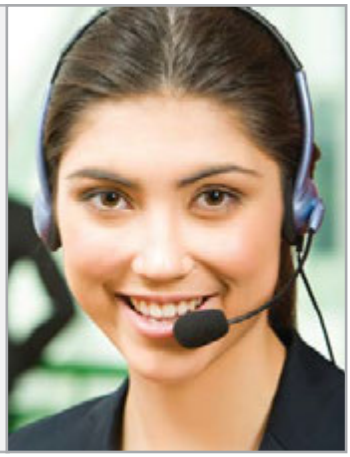
Get Fast and Reliable Answers to Your Toughest Metalcutting Problems

Our Customer Application Support (CAS) Team is the metalworking industry's leading help desk resource for tooling application solutions and problem resolution.

Easy Access to Proven Metalworking Expertise!

Kennametal Customer Application Engineers assist customers and engineering groups throughout the world with expert tool selection and application recommendations for the entire range of Kennametal tooling.

SERVICE LEVEL EXCELLENCE	Fast telephone response. Quick technical solutions. Efficient case management.
SERVICES	Operating parameters. Process optimization. Hardware support. Tooling selection. Troubleshooting.
BEST-IN-CLASS SUPPORT TOOLS AND TECHNOLOGY	Materials database. Application calculators. Tooling performance experts.



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USA	English	800 835 3668	na.techsupport@kennametal.com

Numbers shown only serve the originating country listed.

NOVO KNOWS SEARCH

Searching for a tool has been enhanced by Advise and Select functions from NOVO™ applications — saving you time and money.

ADVISE

Uses a rules-based approach to provide cutting tool recommendations:

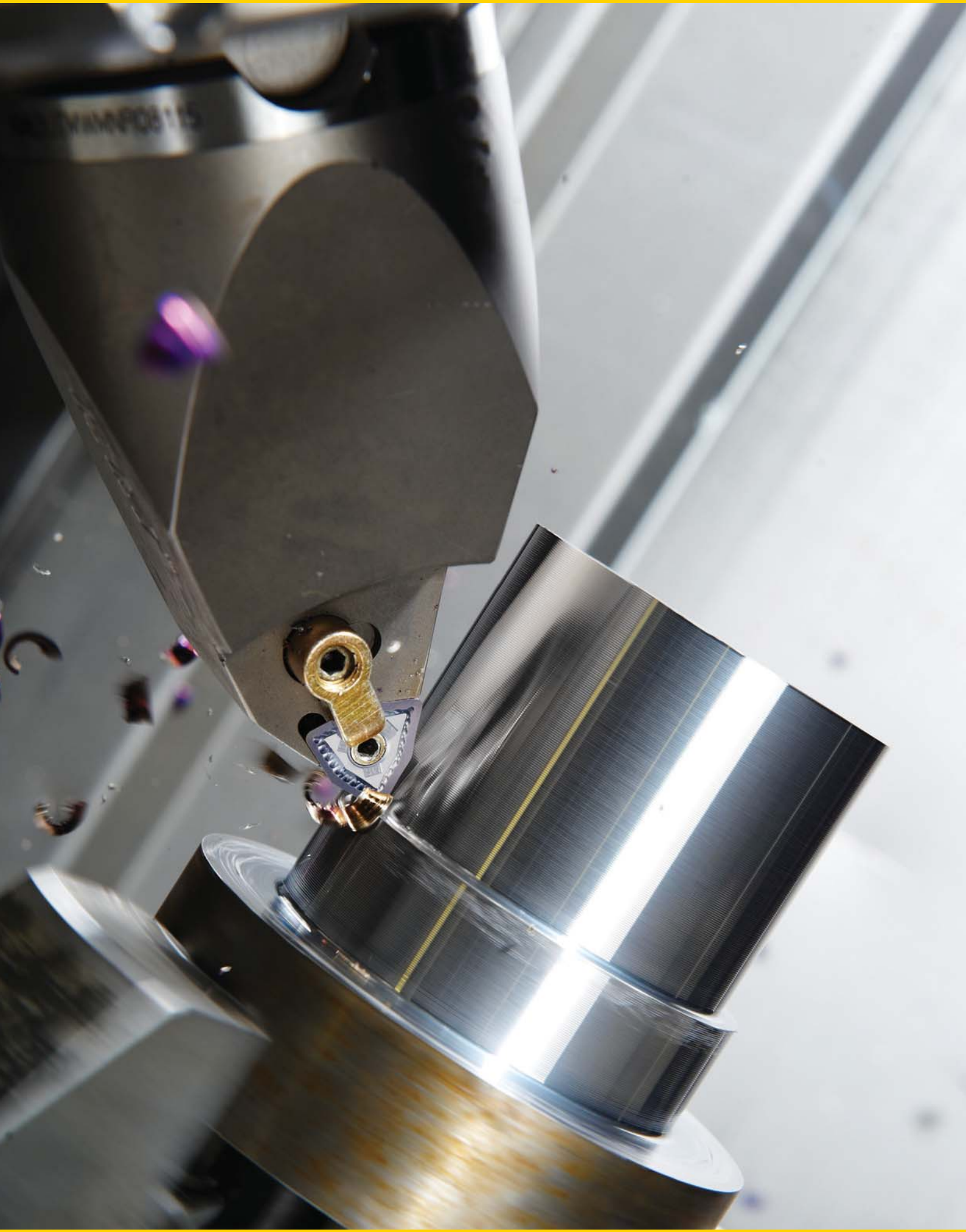
- Define Machining Feature (face milling, slotting, blind hole, etc.)
- Apply Constraint Requirements (geometric, material, tolerance, etc.)
- Set Machining Sequence (single or multi-step operations, rough then finish, etc.)
- Receive Ranked Results

SELECT

A method of selecting cutting tools from a tree structure via a hierarchy or parametric search:

- If you know which product you are looking for, a quick search can be performed by just the catalog number or product description.
- Smart filters significantly reduce the amount of potential tooling solutions.
- After the tool is selected, NOVO also provides cutting and adaptive item options that fit with your solution.

NOVO applications can ensure you have the right tools on your machines, in the right sequence. Resulting in flawless execution that accelerates every job, and maximizes every shift. **kennametal.com/novo**



Turning

Turning Introduction.....A2–A3

ISO/ANSI Turning.....B1–B410

Grooving and Cut-Off.....C1–C204

Threading.....D1–D105

Application Specific.....E1–E71

Turning Products

Our latest Metalcutting Innovations are designed to deliver higher productivity, longer tool life, and increased application versatility.

For more information about the latest products and services from Kennametal, please contact your Kennametal Representative or Authorized Kennametal Distributor, or visit **kennametal.com**.

ISO/ANSI TURNING

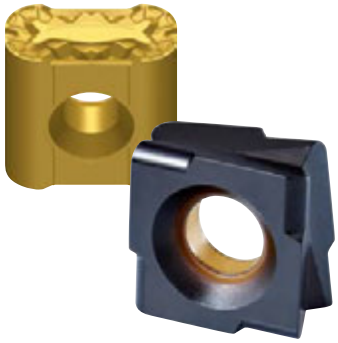
See Section B for more details.

- Negative-style inserts.
- Toolholders, boring bars, cartridges, and bolt-on heads for negative-style inserts.
- Positive-style inserts.
- Toolholders, boring bars, cartridges, and bolt-on heads for positive-style inserts.
- Advanced material inserts for machining:
  - — Cast iron
  - — Hardened steels
  - — High-temperature alloys
- PCD inserts.
- Toolholders, boring bars, cartridges, and bolt-on heads for use with advanced material inserts.
- Tunable bars.

THREADING, GROOVING, AND CUT-OFF

See Sections C and D for more details.

- Beyond™ Evolution™ Grooving, Cut-Off, and Side Turning
- A4™ Grooving and Side Turning
- Top Notch™ Grooving
- Top Notch Threading
- Laydown Threading



APPLICATION SPECIFIC

See Section E for more details.

- Fix-Perfect™ Turning
- Top Notch Profiling
- Tools for Railroad and Wheel Machining
- K-Lock™

ISO/ANSI Turning

Kennametal Insert Selection System **B2–B21**

Kennametal Grades and Grade Descriptions/Application Areas **B22–B29**

Chip Control Geometries, Feed Rates, Depth of Cut, and Application Areas **B30–B35**

Toolholder, Boring Bar, and Cartridge Overview; ISO/ANSI Codes **B36–B45**

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Kendex Positive Style Inserts, Toolholders, Boring Bars, Cartridges, and Bolt-On Heads **B164–B188**

Screw-On Positive Style Inserts, Toolholders, Boring Bars, Cartridges, and Bolt-On Heads **B189–B292**

Advanced Material Inserts, Toolholders, Boring Bars, Cartridges, and Bolt-On Heads **B294–B398**

Advanced Materials for Cast Iron Machining B298–B321

Advanced Materials for Hard Turning B322–B343

Advanced Materials for High-Temperature Machining B344–B355

PCD Inserts B356–B370

Toolholders, Boring Bars, Cartridges, and Bolt-On Heads B371–B398

Tunable Bars **B400–B410**

Mobile Apps

The Kennametal mobile app makes it easy to access product information and calculators on both iPhone® and Android™ devices. We've highlighted a few of the key features...

There's an app for that.

SPEEDS & FEEDS

View speeds and feeds information for metalworking products.

PRODUCT AVAILABILITY

Check global availability of products. View available quantities by providing your Konnect login credentials.

CALCULATORS

Utilize our machining calculators for milling and drilling applications.

By just scanning the bar code on the insert packet, you can find the most productive cutting conditions for tool life, process time, and chip control.

NOTE: The app is currently only available in the English-language version. We have plans to translate the app in different languages with future releases.

Google play

Available on the App Store

ISO/ANSI Turning Inserts, Toolholders, and Boring Bars

Modern CNC machines and flexible production facilities require tools with application versatility. Kennametal high-performance inserts, toolholders, and boring bars are designed to handle any turning application. Whether you're cutting steel or titanium, or doing light finishing or heavy roughing, we have the tooling solution to meet your needs.

Features and Benefits

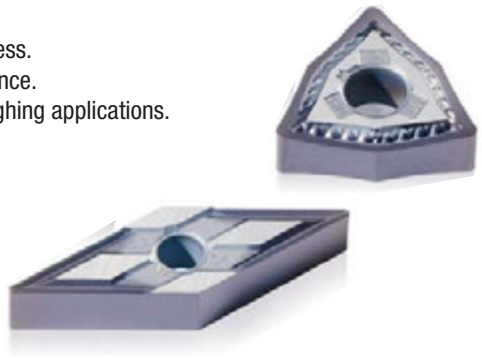
Beyond™ Drive™ Inserts

- Designed for increased productivity.
- Post-coat treatment reduces stress, improves coating adhesion.
- Excellent toughness and wear resistance.
- Better insert wear detection.

Beyond™ PVD Grades

KCU10™ Grade
- Superior wear resistance and faster cutting speeds at higher temperatures.
- Ideal for stainless steels and high-temp alloys.
- Improved depth-of-cut notch resistance.
- Use in finishing to medium applications.

KCU25™ Grade
- Superior edge toughness.
- Excellent wear resistance.
- Use in medium to roughing applications.



Kennametal Turning Solutions by Material

P	Steel	Carbide or Cermet Inserts
M	Stainless Steel	Carbide Inserts
K	Cast Iron	Carbide, Ceramic, or PcBN Inserts
N	Non-Ferrous	Carbide or PCD Inserts
S	High-Temp Alloys	Carbide, Ceramic, PcBN, or PCD Inserts
H	Hardened Materials	Ceramic or PcBN Inserts

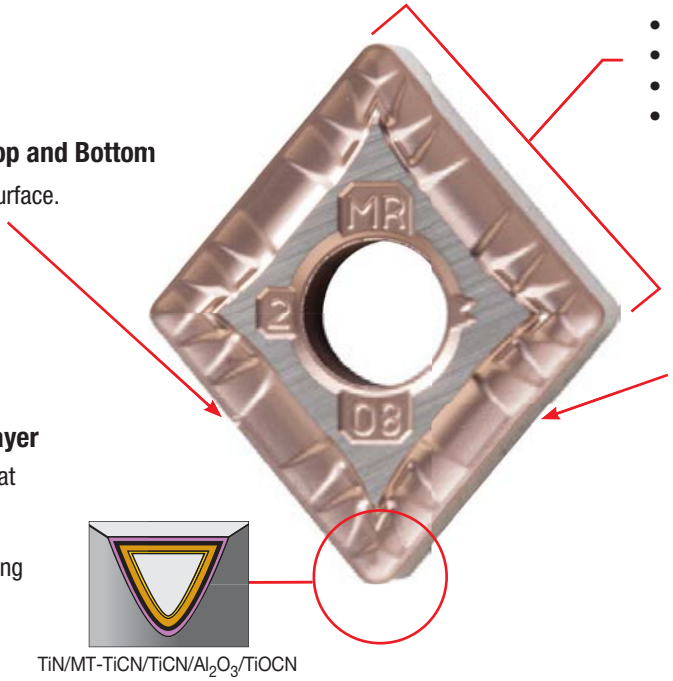
Beyond™ Drive™ Inserts • Technology Details

Post-Coat Treatment

- Improves edge toughness.
- Long predictable tool life.
- Reduces depth-of-cut notching.
- Wide range of applications.

Post-Coat Grinding — Top and Bottom

- Provides secure seating surface.



Micro-Polished Edges

- Improves edge toughness.
- Provides smooth outer surface to reduce forces, friction, and workpiece sticking.

Fine-Grained Alumina Layer

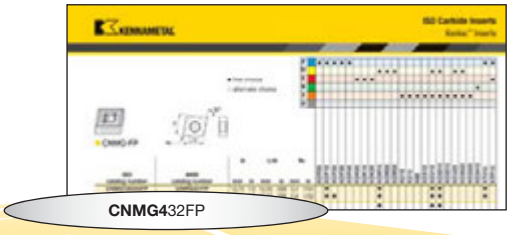
- Provides coating integrity at elevated speeds.
- Higher productivity and dependability at high-cutting temperatures.

TiN/MT-TiCN/TiCN/Al_2O_3/TiOCN

Toolholders, Boring Bars, and Cartridges

How Do Catalog Numbers Work?

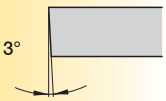
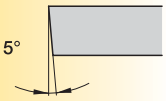
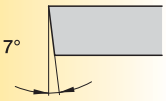
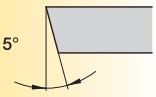
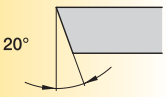
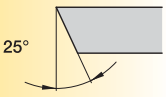
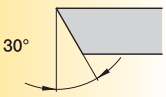
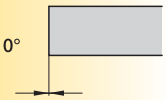
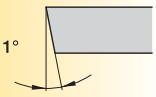
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



C — Insert Shape

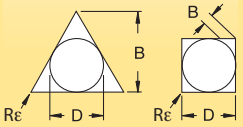
H	Hexagon 120°	
O	Octagon 135°	
P	Pentagon 108°	
R	Round —	
S	Square 90°	
T	Triangular 60°	
C D E M V	Rhomboid 80° 55° 75° 86° 35°	
W	Trigon 80° with enlarged corner angles	
L	Rectangular 90°	
A B N/K	Parallelogram 85° 82° 55°	

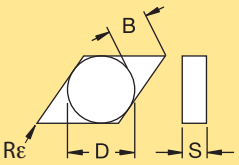
N — Insert Clearance Angle

A	3°	
B	5°	
C	7°	
D	15°	
E	20°	
F	25°	
G	30°	
N	0°	
P	11°	
O	Indicated for other clearance angles requiring descriptions.	

M — Tolerance Class

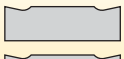
Tolerances apply prior to edge prep and coating





D = Theoretical diameter of the insert inscribed circle
S = Thickness
B = See figures below

G — Insert Features

N	
R	
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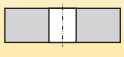
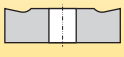
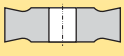
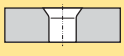
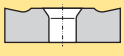
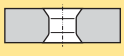
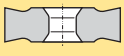
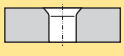
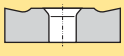
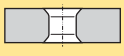
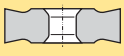
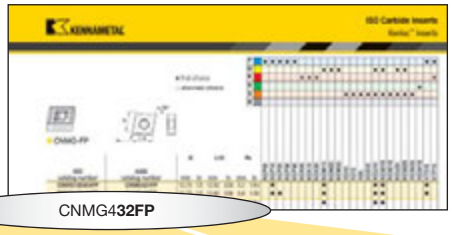
A	
M	
G	
W	
T	
Q	
U	
B	
H	
C	
J	
X	Special Design

4 — Size

Code for inch cutting edge length "L10"								
inch	"D" inch	C	D	R	S	T	V	W
1.2 (5)	5/32	S4	04	03	03	06	—	—
1.5 (6)	3/16	04	05	04	04	08	08	S3
1.8 (7)	7/32	05	06	05	05	09	09	03
—	.236	—	—	06	—	—	—	—
2	1/4	06	07	06	06	11	11	04
2.5	5/16	08	09	07	07	13	13	05
—	.315	—	—	08	—	—	—	—
3	3/8	09	11	09	09	16	16	06
—	.394	—	—	10	—	—	—	—
3.5	7/16	11	13	11	11	19	19	07
—	.472	—	—	12	—	—	—	—
4	1/2	12	15	12	12	22	22	08
4.5	9/16	14	17	14	14	24	24	09
5	5/8	16	19	15	15	27	27	10
—	.630	—	—	16	—	—	—	—
5.5	11/16	17	21	17	17	30	30	11
6	3/4	19	23	19	19	33	33	13
—	.787	—	—	20	—	—	—	—
7	7/8	22	27	22	22	38	38	15
—	.984	—	—	25	—	—	—	—
8	1	25	31	25	25	44	44	17
10	1-1/4	32	38	31	31	54	54	21
—	1.260	—	—	32	—	—	—	—

tolerance class	tolerance on "D"	tolerance on "B"	tolerance on "S"
C	±.0010"	±.0005"	±.001"
H	±.0005"	±.0005"	±.001"
E	±.0010"	±.0010"	±.001"
G	±.0010"	±.0010"	±.005"
M	See tables on next page		±.005"
U	See tables on next page		±.005"

By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



3	2			FP
Thickness S	Corner Radius "Rε"	Hand of Insert *(optional)*	Cutting Edge *(optional)*	Chipbreaker *(optional)*

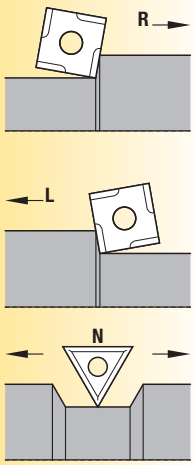
symbol inch	thickness inch
.5 (1)	1/32
.6	.040
1 (2)	1/16
1.2	5.64
1.5	3/32
2	1/8
2.5	5/32
3	3/16
3.5	7/32
4	1/4
5	5/16
6	3/8
7	7/16
18	1/2

symbol inch	corner radius inch
X0	.0015
0	.004
.5	.008
1	1/64
2	1/32
3	3/64
4	1/16
5	5/64
6	3/32
7	7/64
8	1/8
—	round insert
—	

R = Right hand

L = Left hand

N = Neutral



F Sharp

E Rounded

T Chamfered

S Chamfered and Rounded

K Double-Chamfered

P Double-Chamfered and Rounded

F = Sharp
FF = Fine Finishing
FN = Finishing Negative
MN = Medium Negative
MR = Medium Roughing
RN = Roughing Negative
UN = Universal Medium
FP = Finishing Positive
MP = Medium Positive
RP = Roughing Positive
RM = Roughing Medium
RH = Roughing Heavy
FW = Finishing Wiper
MW = Medium Wiper
FS = Finishing Sharp
MS = Medium Sharp
RW = Roughing Wiper
HP = High Positive
UP = Universal Positive
K = Light-Feed Chip Control
UF = Ultra-Fine Finishing
LF = Light Finishing
MF = Medium Finishing
E = Hone Only
T = Negative Land
S = Negative Land Plus Hone
MP-K = Medium Positive
MG-P = Medium Positive

"D" inch	± Tolerance on "D" Class M Tolerance Shapes S, T, C, R, & W inch	Class M Tolerance Shape D inch	Class M Tolerance Shape V inch	Class U Tolerance Shapes S, T, & C inch
5/32	.002	–	–	–
3/16	.002	–	–	.003
7/32	.002	.002	.002	.003
1/4	.002	.002	.002	.003
5/16	.002	.002	.002	.003
3/8	.002	.002	.002	.003
7/16	.003	.003	.003	.005
1/2	.003	.003	.003	.005
9/16	.003	.003	.003	.005
5/8	.004	.004	.004	.007
11/16	.004	.004	.004	.007
3/4	.004	.004	.004	.007
7/8	.005	–	–	.010
1	.005	–	–	.010
1 1/4	.006	–	–	.010

"D" inch	± Tolerance on "B" Class M Tolerance Shapes S, T, C, R, & W inch	Class M Tolerance Shape D inch	Class M Tolerance Shape V inch	Class U Tolerance Shapes S, T, & C inch
5/32	.003	–	–	–
3/16	.003	–	–	.005
7/32	.003	.004	–	.005
1/4	.003	.004	–	.005
5/16	.003	.004	–	.005
3/8	.003	.004	.007	.005
7/16	.005	.006	–	–
1/2	.005	.006	.010	.008
9/16	.005	.006	–	–
5/8	.006	.007	–	.011
11/16	.006	.007	–	.011
3/4	.006	.007	–	.011
7/8	.006	–	–	.015
1	.007	–	–	.015
1 1/4	.008	–	–	.015

A system of grades, geometries, and application guidelines to provide optimal solutions for your metalcutting needs. It's easy to determine which Kennametal chip-control cutting tool will work best in your specific workpiece materials and applications!

Grade • Beyond™ • Beyond™ Drive™

K	C	P	M	25	B
Brand	Insert Material	Primary Workpiece Material *(ISO 513)*	Secondary Workpiece Material *(optional)*	Application Range	Future Upgrades *(optional)*

K = Kennametal

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials
U	Universal Machining

Blank	=	Carbide, uncoated
C	=	Carbide, coated
T	=	Cermet
Y	=	Ceramic
D	=	PCD
B	=	PcBN

Hardest

5	fine finishing
10	finishing
15 **20**	medium to roughing
25 **30** **35**	roughing
40 **45** **50**	heaviest roughing

Toughest

B	=	Beyond™ Drive™
C	=	Generation 3

etc.

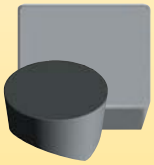
NOTE: Application range does not apply to PcBN grades.

Positive Inserts

Screw-On Inserts

- Screw-On inserts are your first choice for I.D. turning of all materials and O.D. turning on small to medium lathes.
- Available in flat-top and chip-control geometries with both molded and ground peripheries. Suitable for all workpiece materials.

See pages:
Carbide: B189–B292
Advanced Materials: B294–B398



Kendex™ and V-Bottom Inserts

- Kendex positive and V-bottom inserts are your first choice for productive machining of high-temperature alloys on medium to large lathes.
- Available in flat-top geometries with ground periphery.

See pages:
Carbide: B164–B188
Advanced Materials: B294–B398

Top Notch™ Profiling Inserts

- First choice for high-production profiling.
- Unique insert clamping design offers superior rigidity.
- Available in chip-control geometries with both molded and ground peripheries. Suitable for all workpiece materials.

See pages E24–E49 for product listing.

K-Lock™ Inserts

- K-Lock inserts are ideal for deep grooving and profiling.
- A unique insert clamping system allows for unimpeded chip flow.
- Available in molded and ground peripheries.

See page E68–E71 for product listing.

Negative Inserts

Kenloc™ Inserts

- Kenloc inserts are your first choice for general machining of all materials on medium to large lathes.
- Kenloc inserts offer the best economy for high metal removal rates.
- Available in flat-top and chip-control geometries with both molded and ground peripheries. Suitable for all workpiece materials.

See pages:
Carbide: B46–B163
Advanced Materials: B294–B398

Kendex Inserts

- Ceramic Kendex inserts are a great choice for productive machining of high-temp alloys.
- Kendex negative rake inserts are also recommended for the machining of hardened materials and cast irons.
- Available in flat-top geometries with molded and ground peripheries.
- Wide selection of standard toolholders are offered.

See pages B294–B398 for product listing.

Top Notch Turning Inserts

- Ceramic Top Notch turning inserts are your first choice for high-speed roughing and finishing of cast iron parts.
- Available in flat-top geometries with molded and ground peripheries.

See pages B294–B398 for product listing.

Fix-Perfect™ Inserts

- Tangential design and rigid clamping system.

See pages E2–E23 for product listing.

Railroad Inserts

- Designed for the machining of railway wheels and axles.

See pages E50–E67 for product listing.

Insert Selection System

How to Use

The Kennametal three-step insert selection system makes choosing and applying the most productive tool as easy as 1, 2, 3. Tool recommendations are based on six workpiece material groups, optimizing selection accuracy.

Example:
Six workpiece material groups

Step 1 • Select the insert geometry

Given: depths of cut = .040" (1mm)
feed = .016 IPR (0,4mm)
Unknown: insert geometry
Solution: -MN

Step 2 • Select the grade

Given: cutting conditions:
lightly interrupted cut
Geometry: -MN
Unknown: grade
Solution: KCP25B

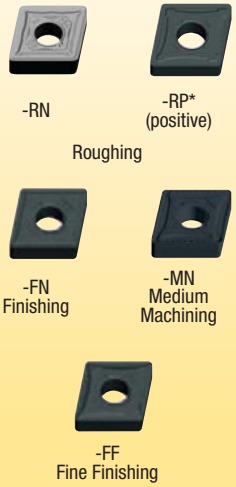
Step 3 • Select the cutting speed

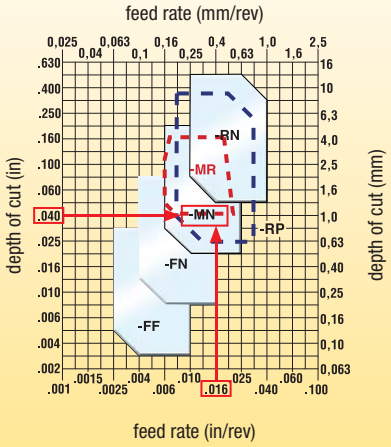
Given: grade KCP25B
cutting conditions
material CK15
Unknown: cutting speed
Solution: 925 SFM (280 m/min)

Need help in selecting a product?
Additional information can be obtained by contacting
The Kennametal Customer Application Support Team.
Go to kennametal.com for your country's phone number.

Step 1 • Select the insert geometry

Negative Inserts





*-RP – Supplemental geometry for high-strength materials

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

beyond™ beyond™ DRIVE™

Step 2 • Select the grade

cutting condition	-FF	-FN	-MN	-RN	-RP	-11	-UF	-LF	-FP	-MF	-MP
heavily interrupted cut	KCP10B/ KCP10	KCP25B/ KCP25	KCP30B/ KCP30	KCP30B/ KCP30/ KCP40B/ KCP40	KCP30B/ KCP30/ KCP40B/ KCP40	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCU25/ KCP25B/ KCP25	KCP40B/ KCP40B	KCP40B/ KCP40B
lightly interrupted cut	KCP10B/ KCP10	KCP25B/ KCP25	KCP25B/ KCP25	KCP30B/ KCP30/ KCP40B/ KCP40	KCP30B/ KCP30/ KCP40B/ KCP40	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25
varying depth of cut, casting, or forging skin	KCP05B/ KCP05/ KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP30B/ KCP30/ KCP40B/ KCP40	KCP30B/ KCP30/ KCP40B/ KCP40	KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10

Step 3 • Selecting the cutting speed

Low-Carbon (<0.3% C) and Free-Machining Steel — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/min	SFM
P1	KCP05B/KCP05/KTP10							◁▷			435	1450
	KCP10B/KCP10							◁▷			395	1320
	KCP25B/KCP25				◁▷						275	925
	KCP30B/KCP30/KCP40B/KCP40			◁▷							210	700

New Beyond™ Material Group Selection Guide:

To optimize speed recommendations, Beyond material subgroups have been added to each of the six workpiece material groups.

material	material group ISO code	number of material subgroups
steel	P	1–6
stainless steel	M	1–3
cast iron	K	1–3
non-ferrous materials	N	1–8
high-temp alloys	S	1–4
hardened materials	H	1

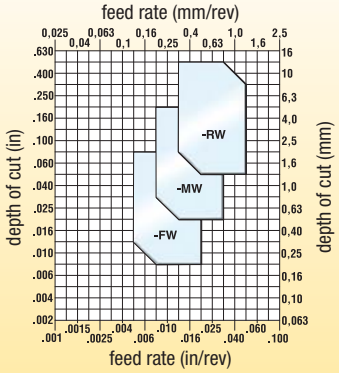
Step 1 • Select the insert geometry

Negative Wiper Inserts

-RW
Rough Wiper

-MW
Medium Wiper

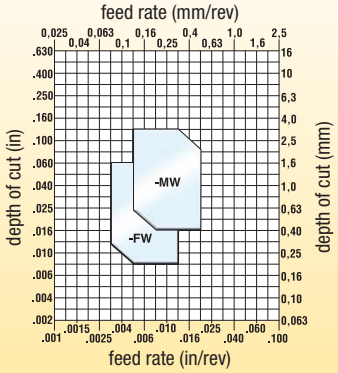
-FW
Finishing Wiper



Positive Wiper Inserts

-MW
Medium Wiper

-FW
Finishing Wiper



Step 2 • Select the grade

cutting condition		Negative Insert Geometry -FW	-MW	-RW	Positive Insert Geometry -FW	-MW
heavily interrupted cut		–	–	KCP25B/KCP25	–	KCP25B/KCP25
lightly interrupted cut		KCP10B/KCP10	KCP25B/KCP25	KCP25B/KCP25	KCP25B/KCP25	KCP25B/KCP25
varying depth of cut, casting, or forging skin		KCP05B/KCP05/ KT315	KCP10B/KCP10	KCP10B/KCP10	KCP10B/KCP10/ KCK20B/KCK20	KCP10B/KCP10
smooth cut, pre-turned surface		KCP05B/KCP05/ KT315	KCP05B/KCP05	KCP10B/KCP10	KCP10B/KCP10/ KT315	KT315

Step 1 • Select the insert geometry

Negative Inserts

-RN

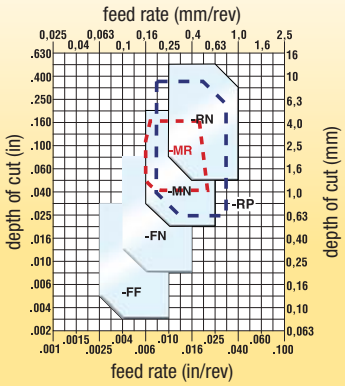
-RP*
(positive)

-MR
Medium
Roughing

-MN
Medium
Machining

-FN
Finishing

-FF
Fine Finishing



*-RP – Supplemental geometry
for high-strength materials

Positive Inserts

-MF

-MP
Positive

Medium Machining

-LF

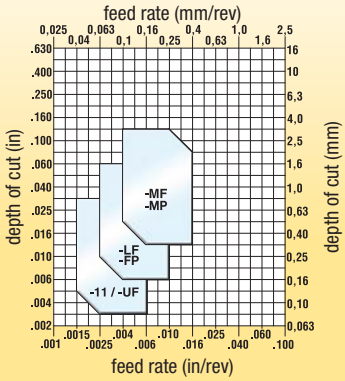
-FP
Positive

Finishing

-11

-UF

Fine Finishing



Step 2 • Select the grade

cutting condition		Negative Insert Geometry -FF	-FN	-MN	-MR	-RN	-RP	-11	Positive Insert Geometry -UF	-LF	-FP	-MF	-MP
heavily interrupted cut		KCP10B/ KCP10	KCP25B/ KCP25	KCP30B/ KCP30	–	KCP30B/ KCP40B	KCP30B/ KCP40B	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP40B/ KCP40	KCM25B/ KCM25
lightly interrupted cut		KCP10B/ KCP10	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25
varying depth of cut, casting, or forging skin		KCP05B/ KCP05/ KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10
smooth cut, pre-turned surface		KCP05B/ KCP05/ KT315	KCP05B/ KCP05	KCP05B/ KCP05	KCP10B/ KCP10/ KCK15B	KCP05B/ KCP10	KCP05B/ KCP10	KT315	KCP05B/ KCP05	KCP05B/ KCP05/ KT315	KCP05B/ KCP05/ KTP10	KCP05B/ KCP05	KCP05B/ KCP05

Step 3 • Selecting the cutting speed

Low-Carbon (<0.3% C) and Free-Machining Steel — speed — m/min (SFM) — Starting Conditions

material group	grade	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/min	SFM
P0/P1	KCP05B/KCP05/KCPK05							◇			435	1450
	KCP10B/KCP10						◇				395	1320
	KCP25B/KCP25				◇						275	925
	KCP30B/KCP30/KCP40B/KCP40		◇								210	700
	KT315/KTP10								◇		440	1450
	KCU10			◇							280	925

Medium- and High-Carbon Steels (>0.3% C) — speed — m/min (SFM) — Starting Conditions

material group	grade	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/min	SFM
P2	KCP05B/KCP05/KCPK05				◇						240	800
	KCP10B/KCP10			◇							265	880
	KCP25B/KCP25		◇								195	650
	KCP30B/KCP30/KCP40B/KCP40		◇								150	500
	KT315/KTP10				◇						270	880
	KCU10	◇									200	650

Alloy Steels and Tool Steels (≤330 HB) (≤35 HRC) — speed — m/min (SFM) — Starting Conditions

material group	grade	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/min	SFM
P3	KCP05B/KCP05/KCPK05			◇							205	680
	KCP10B/KCP10		◇								190	630
	KCP25B/KCP25		◇								155	510
	KCP30B/KCP30/KCP40B/KCP40	◇									120	400
	KT315/KTP10			◇							210	680
	KCU10		◇								155	510

Alloy Steels and Tool Steels (340–450 HB) (36–48 HRC) — speed — m/min (SFM) — Starting Conditions

material group	grade	60 (200)	90 (300)	120 (400)	150 (500)	180 (600)	210 (700)	240 (800)	270 (900)	300 (1000)	m/min	SFM
P4	KCP05B/KCP05/KCPK05				◇						160	530
	KCP10B/KCP10				◇						145	480
	KCP25B/KCP25			◇							105	360
	KCP30B/KCP30/KCP40B/KCP40		◇								95	325
	KT315/KTP10					◇					210	530
	KCU10			◇							110	360

Ferritic, Martensitic, and PH Stainless Steels (≤330 HB) (≤35 HRC) — speed — m/min (SFM) — Starting Conditions

material group	grade	120 (400)	150 (500)	180 (600)	210 (700)	240 (800)	270 (900)	300 (1000)	330 (1100)	360 (1200)	m/min	SFM
P5	KCP05B/KCP05/KCPK05					◇					240	800
	KCP10B/KCP10				◇						215	720
	KCP25B/KCP25				◇						195	650
	KCP30B/KCP30/KCP40B/KCP40		◇								135	450
	KT315/KTP10					◇					250	800
	KCU10				◇						200	660

Ferritic, Martensitic, and PH Stainless Steels (340–450 HB) (36–48 HRC) — speed — m/min (SFM) — Starting Conditions

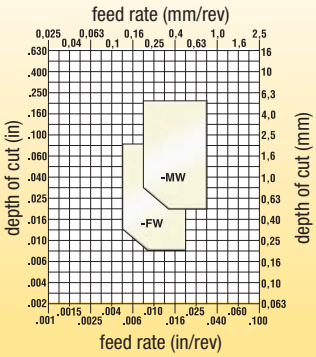
material group	grade	105 (350)	135 (450)	165 (550)	195 (650)	225 (750)	255 (850)	285 (950)	315 (1050)	345 (1150)	m/min	SFM
P6	KCP05B/KCP05/KCPK05				◇						200	660
	KCP10B/KCP10				◇						180	600
	KCP25B/KCP25			◇							150	500
	KCP30B/KCP30/KCP40B/KCP40	◇									105	350
	KT315/KTP10				◇						200	660
	KCU10			◇							150	500

Step 1 • Select the insert geometry

Negative Wiper Inserts

-MW
Medium Wiper

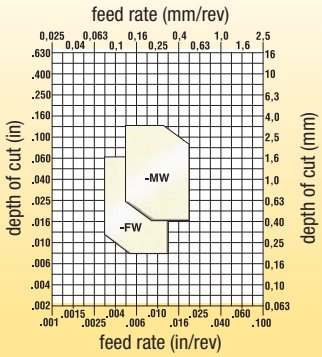
-FW
Finishing Wiper



Positive Wiper Inserts

-MW
Medium Wiper

-FW
Finishing Wiper



Step 2 • Select the grade

cutting condition	Negative Insert Geometry -FW	Negative Insert Geometry -MW	Positive Insert Geometry -FW	Positive Insert Geometry -MW
heavily interrupted cut	–	–	–	–
lightly interrupted cut	KCM15B/KCM15	KCM25B/KCM25	KCM15B/KCM15	KCM15B/KCM15
varying depth of cut, casting, or forging skin	KCM15B/KCM15/ KCU10	KCM15B/KCM15	KCU10	KCU10
smooth cut, pre-turned surface	KCM15B/KCM15/ KT315	KCM15B/KCM15	KT315	KT315

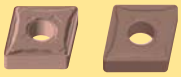
Step 1 • Select the insert geometry

Negative Inserts

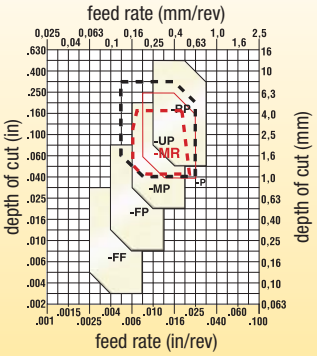
-RP -P
Roughing

-MR
Medium Roughing

-MP -UP
Medium Machining



-FP -FF
Finishing



Positive Inserts

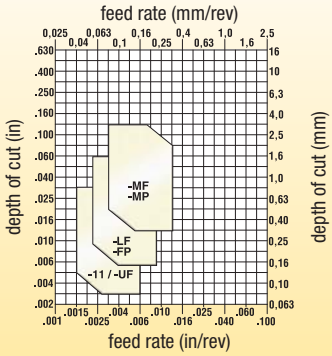
-MP
Medium Machining

-LF

..GT-LF
Finishing

-11

-UF
Fine Finishing



Step 2 • Select the grade

cutting condition	Negative Insert Geometry -FF	-FP	-MP/-UP	-P/-RP	-MR
heavily interrupted cut	KCU10	KCM15B/KCM15	KCM35B/KCM35	KCM35B/KCM35	KCM35B/KCM35
lightly interrupted cut	KCU10	KCM15B/KCM15	KCM25B/KCM25	KCM25B/KCM25	KCM25B/KCM25
varying depth of cut, casting, or forging skin	KT315	KCM15B/KCM15/ KCU10	KCM15B/KCM15	KCM15B/KCM15/ KCM25B/KCM25	KCM15B/KCM15
smooth cut, pre-turned surface	KT315	KCM15B/KCM15/ KT315	KCM15B/KCM15/ KCU10	KCU10	KCM15B/KCM15

(continued)

Step 2 • Select the grade *(continued)*

cutting condition		Positive Insert Geometry -11	-UF	-LF	-MP/-MF	-FP	..GT-LF
heavily interrupted cut		–	KCU25	KCM35B/KCM35	KCM25B/KCM25	KCU25/KCM25B/ KCM25	KCU25
lightly interrupted cut		–	KCU10	KCM25B/KCM25	KCM25B/KCM25	KCM15B/KCM15	KCU25
varying depth of cut, casting, or forging skin		KT315	–	KCM15B/KCU10	KCM15B/KCM15	KCU10	KCU10
smooth cut, pre-turned surface		KT315	–	KCM15B/KCM15/ KT315	KCM15B/KCM15	KTP10	KCU10

Step 3 • Selecting the cutting speed

Austenitic Stainless Steel — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)	m/min	SFM
M1	KCM15B/KCM15			◁▷							180	600
	KCM25B/KCM25		◁▷								150	500
	KCM35B/KCM35	◁▷									120	400
	KT315				◁▷						230	750
	KCU10			◁▷							215	700
	KCU25		◁▷								180	550

Austenitic Stainless Steel — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)	m/min	SFM
M2	KCM15B/KCM15			◁▷							165	550
	KCM25B/KCM25		◁▷								140	450
	KCM35B/KCM35	◁▷									105	350
	KT315				◁▷						215	700
	KCU10			◁▷							200	650
	KCU25		◁▷								165	500

Austenitic Stainless Steel: Duplex (Ferritic and Austenitic Mixture) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)	m/min	SFM
M3	KCM15B/KCM15			◁▷							150	500
	KCM25B/KCM25		◁▷								120	400
	KCM35B/KCM35	◁▷									90	300
	KT315				◁▷						200	650
	KCU10			◁▷							185	600
	KCU25		◁▷								150	450

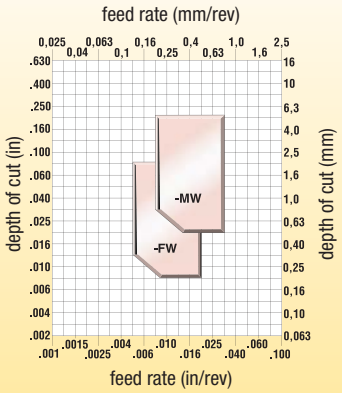
Step 1 • Select the insert geometry

Negative Wiper Inserts

-MW -S...MW
Medium Wiper

-FW -FW
-T-20FW

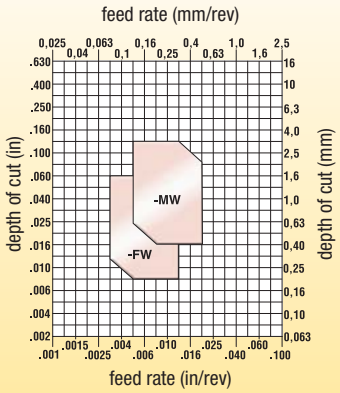
-FW
-T-20FW
Finishing Wiper



Positive Wiper Inserts

-MW
Medium Wiper

-FW
Finishing Wiper



Step 2 • Select the grade

Gray Iron

	Negative Insert Geometry			Positive Insert Geometry	
cutting condition	**-FW**	**-T-20FW**	**-S...MW...**	**-FW**	**-MW**
heavily interrupted cut	–	KY3500	KB1345	–	KCK15B/KCK15/ KCK20B/KCK20
lightly interrupted cut	KCK15B/KCK15	KY3500	KB1345	KCK20B/KCK20	KCK15B/KCK15/ KCK20B/KCK20
varying depth of cut, casting, or forging skin	KCK05B/KCK05/ KT315	KYK10	KB1345	KCK20B/KCK20	KCK15B/KCK15/ KCK20B/KCK20
smooth cut, pre-turned surface	KCK05B/KCK05/ KT315	KYK25	KB1345	KCK20B/ KT315	KCK15B/KCK15/ KCK20B/KCK20/KT315

Ductile Iron

	Negative Insert Geometry		Positive Insert Geometry	
cutting condition	**-FW**	**-T-20FW**	**-FW**	**-MW**
heavily interrupted cut	–	–	–	–
lightly interrupted cut	KCK15B/ KCK15	KY3500	KCK20B/ KCK20	KCK20B/ KCK20
varying depth of cut, casting, or forging skin	KCK05B/KCK05/ KT315	KYK10	KCK20B/ KCK20	KCK20B/ KCK20
smooth cut, pre-turned surface	KCK05B/KCK05/ KT315	KYK25	KCK20B/KCK20/ KT315	KCK20B/KCK20/ KT315

Step 3 • Selecting the cutting speed

Gray Cast Iron — speed — m/min (SFM) — Starting Conditions

material group	grade	60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/min	SFM
K1	KCK05B/KCK05					◁▷					450	1500
	KCK15B/KCK15				◁▷						360	1200
	KCK20B/KCK20/KCPK05				◁▷						300	1000
	KT315				◁▷						275	900

Ductile, Compacted Graphite, and Malleable Cast Irons (<80 KSI tensile strength) — speed — m/min (SFM) — Starting Conditions

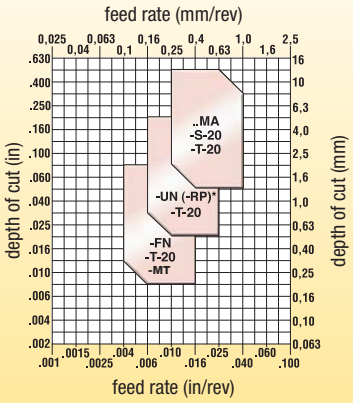
material group	grade	60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/min	SFM
K2	KCK05B/KCK05				◁▷						360	1200
	KCK15B/KCK15				◁▷						270	900
	KCK20B/KCK20/KCPK05			◁▷							240	800
	KT315				◁▷						275	900

Ductile, Compacted Graphite, and Malleable Cast Irons (>80 KSI tensile strength) — speed — m/min (SFM) — Starting Conditions

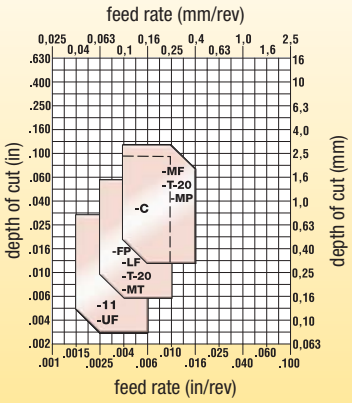
material group	grade	60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/min	SFM
K3	KCK05B/KCK05			◁▷							240	800
	KCK15B/KCK15			◁▷							215	725
	KCK20B/KCK20/KCPK05		◁▷								210	700
	KT315			◁▷							230	750

Step 1 • Select the insert geometry

Negative Inserts



Positive Inserts



*Geometry can be used in medium machining operations to reduce tool pressure in high-strength metals.

Step 2 • Select the grade

Gray Iron

		Negative Insert Geometry				Positive Insert Geometry			
cutting condition		**-FN**	**-MR**	**-UN(-RP)**	**-MA**	**-LF**	**-FP**	**-MF**	**-MP**
heavily interrupted cut		KCK15B/ KCK15	KCP25B/ KCP25/ KCP10B/KCP10	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
lightly interrupted cut		KCK15B/ KCK15	KCP10B/ KCP10/ KCP25B/KCP25	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
varying depth of cut, casting, or forging skin		KCK05B/ KCK05/ KT315	KCK15B/ KCK15	KCK15B/ KCK15	KCK15B/ KCK15	KCK15B/ KCK15	KCK20B/ KCK20	KCK15B/ KCK15	KCK20B/ KCK20
smooth cut, pre-turned surface		KCK05B/ KCK05/ KT315	KCK15B/ KCK15	KCK05B/ KCK05	KCK05B/ KCK05	KCK05B/ KCK05	KCK20B/ KCK20	KCK15B/ KCK15	KCK20B/ KCK20

Ductile Iron

		Negative Insert Geometry				Positive Insert Geometry			
cutting condition		**-FN**	**-UN(-RP)**	**-MA**	**-11/-UF**	**-LF**	**-MF**	**-FP**	**-MP**
heavily interrupted cut		KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20	–	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
lightly interrupted cut		KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20	KCU10	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
varying depth of cut, casting, or forging skin		KCK05B/ KCK05/ KT315	KCK15B/ KCK15	KCK15B/ KCK15	KCU10	KCK15B/ KCK15	KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20
smooth cut, pre-turned surface		KCK05B/ KCK05/ KT315	KCK05B/ KCK05	KCK05B/ KCK05	KT315	KCU10	KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20

(continued)

Step 3 • Selecting the cutting speed *(continued)* (Optimal speed depends on casting quality and disposition.)

Gray Cast Iron — speed — m/min (SFM) — Starting Conditions

material group	grade	60 (200)	180 (600)	305 (1000)	430 (1400)	550 (1800)	675 (2200)	800 (2600)	920 (3000)	1040 (3400)	1160 (3800)	m/min	SFM
K1	KT315			◇								275	900
	KB1340/KB1345							◇				760	2500
	KCK05B/KCK05				◇							450	1500
	KCK15B/KCK15				◇							360	1200
	KCK20B/KCK20/KCPK05				◇							300	1000

Ductile, Compacted Graphite, and Malleable Cast Irons (<600 MPa tensile strength) — speed — m/min (SFM) — Starting Conditions

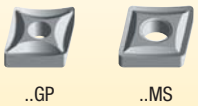
material group	grade	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	500 (1650)	550 (1800)	600 (1950)	m/min	SFM
K2	KT315					◇								275	900
	KCU10				◇									200	650
	KCK05B/KCK05						◇							360	1200
	KCK15B/KCK15						◇							270	900
	KCK20B/KCK20/KCPK05					◇								240	800

Ductile, Compacted Graphite, and Malleable Cast Irons (>600 MPa tensile strength) — speed — m/min (SFM) — Starting Conditions

material group	grade	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	500 (1650)	550 (1800)	600 (1950)	m/min	SFM
K3	KT315				◇									230	750
	KCU10			◇										150	500
	KCK05B/KCK05					◇								240	800
	KCK15B/KCK15			◇										215	725
	KCK20B/KCK20/KCPK05		◇											210	700

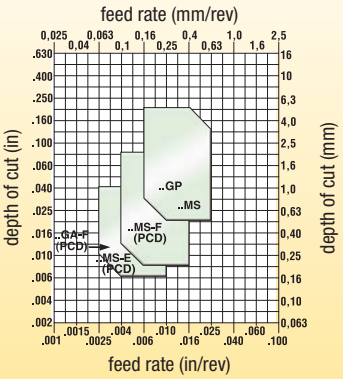
Step 1 • Select the insert geometry

Negative Inserts



..GP ..MS

Medium Finishing



Positive Inserts

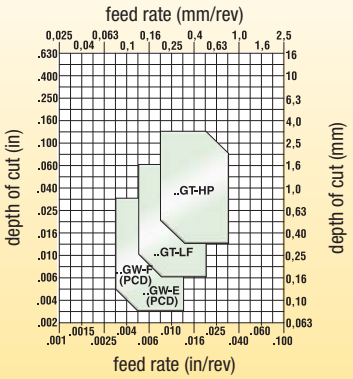
..GT-HP

Medium Finishing

..GT-LF

Finishing

..GW-F (PCD) ..GW-E (PCD)



Step 2 • Select the grade

		Negative Insert Geometry		Positive Insert Geometry	
cutting condition		**..GP**	**..MS**	**..GT-LF**	**..GT-HP**
heavily interrupted cut		**KC5410/K313**	**KC5410**	**–**	**KC5410**
lightly interrupted cut		**KC5410/K313**	**KC5410**	**KC5410**	**KC5410**
varying depth of cut, casting, or forging skin		**KC5410/K313**	**KC5410**	**KC5410**	**KC5410**
smooth cut, pre-turned surface		**KC5410/K313**	**KC5410**	**KC5410**	**KC5410**

Step 3 • Selecting the cutting speed

Low-Silicon Aluminum Alloys (hypoeutectic <12.2% Si) and Magnesium Alloys

speed — m/min (SFM)

Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	1250 (4000)	1500 (4800)	1750 (5600)	2000 (6400)	2250 (7200)	2500 (8000)	m/min	SFM
N1	**KC5410**		◁▷									550	1800

Additional cutting speed recommendations for miscellaneous workpiece materials

Copper-, Brass-, Zinc-Based on a Machinability Index Range of 70–100 — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N4	KC5410	◁▷				275	900
	K313	◁▷				260	850

Nylon, Plastics, Rubbers, Phenolics, Resins, Fiberglass, and Glass — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N5	KC5410	◁▷				170	550

Carbon and Graphite Composites: Brush Alloys, Kevlar, and Graphite (280–400 HB) (30–43 HRC) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N6	KC5410	◁▷				200	650

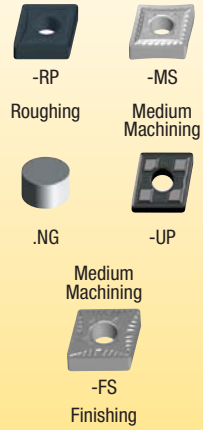
Tin Alloys, Cast: ASTM 823, Alloys 1, 2, 3, 11 — speed — m/min (SFM) — Starting Conditions ◁▷

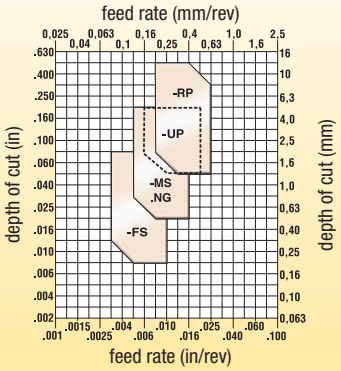
material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N8	KC5410	◁▷				215	700
	K313	◁▷				180	600

Step 1 • Select the insert geometry

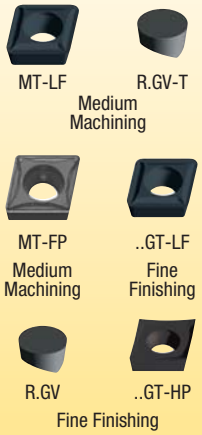
beyond DRIVE™

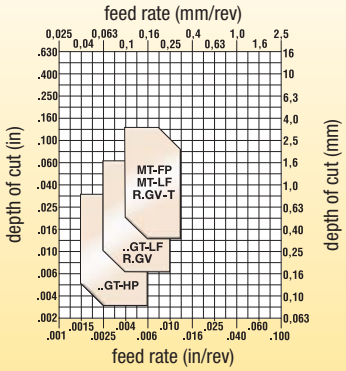
Negative Inserts





Positive Inserts





Step 2 • Select the grade

		Negative Insert Geometry			
cutting condition		**-FS**	**-MS**	**-UP**	**-RP**
heavily interrupted cut		**KCU25**	**KCU25**	**KCM35B**	**KCM25B/ KCM35B**
lightly interrupted cut		**KCU10**	**KCU25**	**KCM25B**	**KCM15B**
varying depth of cut, casting, or forging skin		**KCU10**	**KCU10**	**KCM15B**	**KCU25**
smooth cut, pre-turned surface		**KCU10/K313**	**KCU10/K313**	**KCU10**	**KCU10**

		Positive Insert Geometry			
cutting condition		**MT-FP**	**..GT-HP**	**MT-LF**	**..GT-LF**
heavily interrupted cut		**KCU25**	**–**	**KCU25**	**KCU25**
lightly interrupted cut		**KCU25**	**KCU25**	**KCU25**	**KCU25**
varying depth of cut, casting, or forging skin		**KCU10/KU10**	**KCU10**	**KCU10**	**KCU10**
smooth cut, pre-turned surface		**KCU10/KU10**	**KCU10/K313**	**KCU10/K313**	**KCU10/K313**

Step 3 • Select the cutting speed

Iron-Based, Heat-Resistant Alloys (135–320 HB) (≤34 HRC) — speed — m/min (SFM) — Starting Conditions

material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S1	K313/KU10		◁▷												30	100
	KCU10			◁▷											55	180
	KCU25		◁▷												40	125
	KCM15B/KCM15			◁▷											55	180
	KCM25B/KCM25/KCM35B/KCM35		◁▷												40	125

Cobalt-Based, Heat-Resistant Alloys (150–425 HB) (≤45 HRC) — speed — m/min (SFM) — Starting Conditions

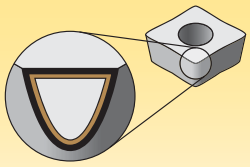
material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S2	K313/KU10		◁▷												35	110
	KCU10			◁▷											60	195
	KCU25		◁▷												30	100
	KCM15B/KCM15			◁▷											60	195
	KCM25B/KCM25/KCM35B/KCM35		◁▷												30	100

Nickel-Based, Heat-Resistant Alloys (140–475 HB) (≤48 HRC) — speed — m/min (SFM) — Starting Conditions

material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S3	K313/KU10		◁▷												40	125
	KCU10			◁▷											70	225
	KCU25		◁▷												40	125
	KCM15B/KCM15			◁▷											70	225
	KCM25B/KCM25/KCM35B/KCM35		◁▷												40	125

Titanium and Titanium Alloys (110–450 HB) (≤48 HRC) — speed — m/min (SFM) — Starting Conditions

material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S4	K313/KU10		◁▷												45	150
	KCU10			◁▷											70	225
	KCU25		◁▷												55	175
	KCM15B/KCM15			◁▷											70	225
	KCM25B/KCM25/KCM35B/KCM35		◁▷												55	175

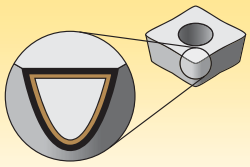


Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

	Coating	Grade Description		05	10	15	20	25	30	35	40	45
Uncoated Carbide Grades	K313	**Composition:** A hard, low binder content, unalloyed WC/Co fine-grain grade. **Application:** Exceptional edge wear resistance combined with very high strength for machining titanium, cast irons, austenitic stainless steels, non-ferrous metals, non-metals, and most high-temp alloys. Superior thermal deformation and depth-of-cut notch resistance. The grain structure is well controlled for minimal pits and flaws, which contributes to long, reliable service.	M									
			K									
			N									
			S									
	K68	**Composition:** A hard, low binder content, alloyed grade WC/Co fine-grain grade. **Application:** The K68 grade has excellent abrasion resistance for machining cast irons, austenitic stainless steels, non-ferrous metals, non-metals, and as an alternative to the K313 grade on high-temperature alloys. Use as a general-purpose grade for non-ferrous materials.	M									
			K									
			N									
			S									
PVD-Coated Carbide Grades	KCS10	**Composition:** An advanced PVD-AlTiN coated, fine-grained tungsten carbide grade. **Application:** The KCS10 grade specifically engineered for the productive machining of high-temperature alloys. The fine-grained tungsten carbide substrate has excellent toughness and deformation resistance while the advanced PVD coating allows metalcutting speeds double those of conventional PVD-coated cutting tools.	P									
			M									
			K									
			N									
			S									
			H									
	KCU10	**Composition:** An advanced multilayer PVD coating over a very deformation-resistant unalloyed carbide substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU10™ grade is ideal for finishing to general machining of most workpiece materials at a wide range of speed and feed capabilities. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and high-temp alloys with improved edge toughness, notch resistance, and higher cutting speed/feed capability. beyond	P									
			M									
			K									
			N									
			S									
			H									



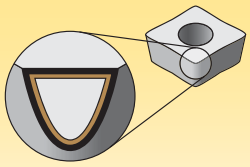
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

PVD-Coated Carbide Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCU25 —	**Composition:** An advanced PVD grade with hard AlTiN coating and fine-grain unalloyed substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU25™ grade is ideal for general machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials in a wide range of speeds and feeds with improved edge toughness for interrupted cut and high feed rates. beyond	P				■	■	■			
		M				■	■	■			
		K				■	■	■			
		N				■	■	■			
		S				■	■	■			
KC5010 —	**Composition:** An advanced PVD AlTiN coating over a very deformation-resistant unalloyed carbide substrate. **Application:** The KC5010™ grade is ideal for finishing to general machining of most workpiece materials at higher speeds. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and high-temp alloys under stable conditions. It also performs well machining hardened and short chipping materials.	P		■	■	■					
		M		■	■	■					
		K	■	■	■	■					
		N		■	■	■					
		S		■	■	■					
		H		■							
KC5025 —	**Composition:** An advanced PVD-AlTiN-coated grade with a tough, ultra-fine-grain unalloyed substrate. **Application:** For general-purpose machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials. Speeds may vary from low to medium and will handle interruptions and high feed rates.	P				■	■	■			
		M				■	■	■			
		K				■	■	■			
		N				■	■	■			
		S				■	■	■			
KC5410 —	**Composition:** A PVD TiB_2 coating over a very deformation-resistant unalloyed substrate. **Application:** Designed for roughing, semi-finishing, and finishing of free machining (hypoeutectic <12.2% Si) aluminum, aluminum alloys, and magnesium alloys. The TiB_2 coating is harder than TiN and TiAlN coatings and has an extremely smooth surface, resulting in reduced surface friction, speedy chip flow, and outstanding wear resistance. Built-up edge is prevented because this coating has a very low affinity for aluminum. The substrate is unalloyed and fine grained and offers sharp edges, smooth surfaces, and excellent thermal deformation resistance and edge integrity. Inserts with a ground periphery are polished before coating and have a sharp edge. Molded inserts have a light hone.									
		N	■	■	■	■					



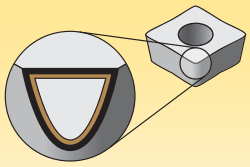
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

CVD-Coated Carbide Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCP05B —	**Composition:** An innovative, highly deformation-resistant, cobalt-enriched substrate with a specially designed, adherent MTCVD TiCN-Al_2O_3-TiOCN coating. **Application:** For finishing to semi-finishing of most steels, ferritic, martensitic, and PH stainless steels and cast irons. Provides excellent combination of deformation resistance and insert edge strength. The new coating combined with a state-of-the-art post-coat treatment provides high-productivity with long predictable tool life and superior workpiece surface finish. beyond DRIVE	P	P	P						
		K				K	K	K		
KCP05 —	**Composition:** An innovative, highly deformation-resistant, cobalt-enriched substrate with a specially designed, adherent MTCVD TiCN-Al_2O_3 coating. **Application:** For finishing to semi-finishing of most steels, ferritic, martensitic, and PH stainless steels and cast irons. Provides excellent combination of deformation resistance and insert edge strength. The new coating combined with a state-of-the-art post-coat treatment provides high-productivity with long predictable tool life and superior workpiece surface finish. beyond	P	P	P						
		K				K	K	K		
KCPK05 —	**Composition:** A deformation-resistant, cobalt-enriched substrate combined with thick MTCVD TiCN-Al_2O_3 coating. **Application:** For high productivity turning of steels and PH stainless steels in continuous to lightly interrupted cuts. This grade provides excellent combination of toughness and high speed wear resistance allowing the fastest steel part production. Its unique combination of substrate and coating also make it an ideal roughing grade for cast iron where chipping resistance is required. beyond	P	P	P						
		K				K	K	K		
KCP10B —	**Composition:** A specially engineered cobalt-enriched carbide grade with thick MTCVD TiCN-Al_2O_3-TiOCN coating for maximum wear resistance. **Application:** An excellent finishing to medium machining grade for a variety of workpiece materials, including most steels, ferritic, martensitic, and PH stainless steels, and cast irons. The cobalt-enriched substrate offers a balanced combination of deformation resistance and edge toughness, while the thick coating layers offer outstanding abrasion resistance and crater wear resistance for high-speed machining. Smooth coating provides resistance to edge build-up and microchipping and produces excellent surface finishes. beyond DRIVE	P	P	P	P					
		K				K	K	K		
KCP10 —	**Composition:** A specially engineered cobalt-enriched carbide grade with thick MTCVD TiCN-Al_2O_3 coating for maximum wear resistance. **Application:** An excellent finishing to medium machining grade for a variety of workpiece materials, including most steels, ferritic, martensitic, and PH stainless steels, and cast irons. The cobalt-enriched substrate offers a balanced combination of deformation resistance and edge toughness, while the thick coating layers offer outstanding abrasion resistance and crater wear resistance for high-speed machining. Smooth coating provides resistance to edge build-up and microchipping and produces excellent surface finishes. beyond	P	P	P	P					
		K				K	K	K		

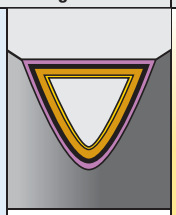
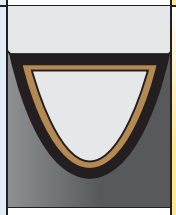
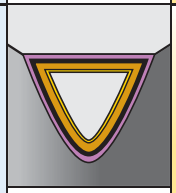
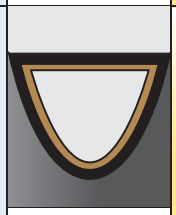


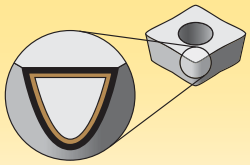
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

CVD-Coated Carbide Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCP25B  —	**Composition:** A tough cobalt-enriched carbide grade with a multilayer MTCVD TiCN-Al_2O_3-TiOCN coating with superior interlayer adhesion. **Application:** Best general-purpose turning grade for most steels and ferritic and martensitic stainless steels. The substrate design ensures adequate deformation resistance with excellent insert edge strength. Coating layers offer good wear resistance over a wide range of machining conditions and the post-coat treatment minimizes microchipping and improves coating adhesion to substrate leading to long tool life and improved workpiece finishes. beyond DRIVE™	P				■	■	■			
		M									
		K						■	■	■	
		N									
		S									
		H									
KCP25  —	**Composition:** A tough cobalt-enriched carbide grade with a multilayer MTCVD TiCN-Al_2O_3 coating with superior interlayer adhesion. **Application:** Best general-purpose turning grade for most steels and ferritic and martensitic stainless steels. The substrate design ensures adequate deformation resistance with excellent insert edge strength. Coating layers offer good wear resistance over a wide range of machining conditions and the post-coat treatment minimizes microchipping and improves coating adhesion to substrate leading to long tool life and improved workpiece finishes. beyond	P				■	■	■			
		M									
		K						■	■	■	
		N									
		S									
		H									
KCP30B  —	**Composition:** A tough cobalt-enriched carbide grade with an advanced multilayer MTCVD TiCN-Al_2O_3-TiOCN coating. **Application:** For medium to rough machining of all carbon, alloy, and stainless steels. The substrate design provides superior insert strength that is required for this application, and the multilayer coating adds wear resistance to the insert resulting in long tool life. beyond DRIVE™	P					■	■	■	
		M				■	■				
		K									
		N									
		S									
		H									
KCP30  —	**Composition:** A tough cobalt-enriched carbide grade with an advanced multilayer MTCVD TiCN-Al_2O_3 coating. **Application:** For medium to rough machining of all carbon, alloy, and stainless steels. The substrate design provides superior insert strength that is required for this application, and the multilayer coating adds wear resistance to the insert resulting in long tool life. beyond	P					■	■	■	
		M				■	■				
		K									
		N									
		S									
		H									



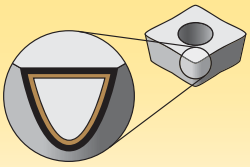
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

CVD-Coated Carbide Grades

Coating	Grade Description		05	10	15	20	25	30	35	40	45
KCP40B	**Composition:** A tough carbide grade with a thin MTCVD TiCN-Al_2O_3-TiOCN coating. **Application:** For heavy roughing of carbon, alloy, and stainless steels. The substrate-coating combination provides unbelievable toughness and operational security allowing high metal removal rates even in most demanding interrupted cuts. beyond DRIVE™	P							■	■	■
—		M				■	■	■			
KCP40	**Composition:** A tough carbide grade with a thin MTVCVD TiCN-Al_2O_3 coating. **Application:** For heavy roughing of carbon, alloy, and stainless steels. The substrate-coating combination provides unbelievable toughness and operational security allowing high metal removal rates even in most demanding interrupted cuts. beyond	P							■	■	■
—		M				■	■	■			
KCK05B	**Composition:** A multilayered coating with moderately thick MTCVD TiCN-Al_2O_3-TiOCN layers over a highly deformation-resistant carbide substrate. **Application:** Designed for high-speed machining of gray and ductile irons. The substrate and coating architecture together with post-coat treatment ensure a tremendous tool life advantage, especially when cutting higher tensile strength ductile and gray irons where workpiece size consistency and reliability of tool life are critical. Excellent both in continuous cuts and varied depths of cut. beyond DRIVE™	P	■								
—		K	■	■	■						
KCK05	**Composition:** A multilayered coating with moderately thick MTCVD TiCN-Al_2O_3 layers over a highly deformation-resistant carbide substrate. **Application:** Designed for high-speed machining of gray and ductile irons. The substrate and coating architecture together with post-coat treatment ensure a tremendous tool life advantage, especially when cutting higher tensile strength ductile and gray irons where workpiece size consistency and reliability of tool life are critical. Excellent both in continuous cuts and varied depths of cut. beyond	P	■								
—		K	■	■	■						
KCK15B	**Composition:** A multilayered coating with thick MTCVD TiCN-Al_2O_3-TiOCN layers applied over a carbide substrate specifically engineered for cast irons. **Application:** Delivers consistent performance in high-speed machining of gray and ductile irons. The substrate design permits the insert to stay in the cut for a long time at high speeds with minimum deformation. The thick CVD coating and post-coat treatment provide superior wear resistance ensuring long and consistent tool life. Can be applied both in continuous and lightly interrupted cuts. beyond DRIVE™	P	■	■							
—		K		■	■	■	■				

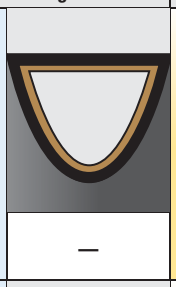
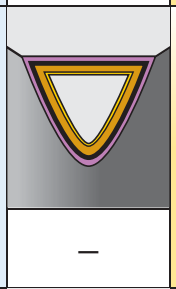
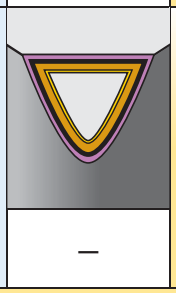


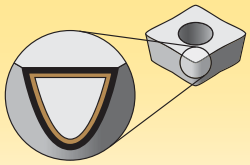
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

CVD-Coated Carbide Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCK15  —	**Composition:** A multilayered coating with thick MTCVD TiCN-Al_2O_3 layers applied over a carbide substrate specifically engineered for cast irons. **Application:** Delivers consistent performance in high-speed machining of gray and ductile irons. The substrate design permits the insert to stay in the cut for a long time at high speeds with minimum deformation. The thick CVD coating and post-coat treatment provide superior wear resistance ensuring long and consistent tool life. Can be applied both in continuous and lightly interrupted cuts. beyond	P	P							
KCK20B  —	**Composition:** A specially toughened MTCVD TICN-Al_2O_3-TiOCN coating over a wear-resistant substrate. **Application:** Specifically engineered to maximize coating adhesion and edge strength making this grade ideal in wet interrupted cutting of gray and ductile irons. It can be used in a wide range of applications from finishing to roughing to maximize productivity wherever strength and reliability are needed. beyond DRIVE™	P	P	P						
KCK20 —	**Composition:** A specially toughened MTCVD TICN-Al_2O_3 coating over a wear-resistant substrate. **Application:** Specifically engineered to maximize coating adhesion and edge strength making this grade ideal in wet interrupted cutting of gray and ductile irons. It can be used in a wide range of applications from finishing to roughing to maximize productivity wherever strength and reliability are needed. beyond	P	P	P						
KCM15B  —	**Composition:** A multilayer MTCVD TiCN-Al_2O_3 coated carbide grade. **Application:** An excellent finishing to medium machining grade for austenitic stainless steels at higher speeds and covers a broad range of steel applications in the P20–P25 range. KCM15B grade in combination with unique geometries have been designed to resist depth-of-cut notching and minimize bur formation. The post-coat treatment reduces coating stresses, improves coating adhesion, minimizes microchipping and edge build-up, and improves workpiece finish. beyond DRIVE™	P M	P M	P M	P M	P	P			



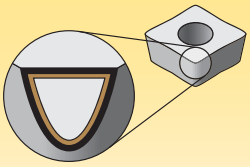
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

CVD-Coated Carbide Grades

Coating	Grade Description		05	10	15	20	25	30	35	40	45
KCM15	**Composition:** A multilayer MTCVD TiCN-Al_2O_3 coated carbide grade. **Application:** An excellent finishing to medium machining grade for austenitic stainless steels at higher speeds and covers a broad range of steel applications in the P20–P25 range. KCM15 grade in combination with unique geometries have been designed to resist depth-of-cut notching and minimize bur formation. The post-coat treatment reduces coating stresses, improves coating adhesion, minimizes microchipping and edge build-up, and improves workpiece finish. beyond	P				■	■				
		M		■	■	■					
KCM25B	**Composition:** A multilayer MTCVD TiCN-Al_2O_3-TiOCN coated carbide grade. **Application:** This CVD-coated grade is designed for general-purpose machining of austenitic stainless steels at moderate speeds and feeds. This grade offers an extraordinary combination of toughness, built-up edge resistance, and wear resistance in stainless steel applications. beyond DRIVE	P							■	■	■
		M				■	■	■			
KCM25	**Composition:** A multilayer CVD coating comprised of MTCVD TiCN-Al_2O_3 layers over a tough, cobalt-enriched carbide substrate. **Application:** This CVD-coated grade is designed for general-purpose machining of austenitic stainless steels at moderate speeds and feeds. This grade offers an extraordinary combination of toughness, built-up edge resistance, and wear resistance in stainless steel applications. beyond	P							■	■	■
		M				■	■	■			
KCM35B	**Composition:** A multilayer MTCVD TiCN-Al_2O_3-TiOCN coating over a super-tough substrate. **Application:** Engineered to take on the most brutal cast stainless steel machining applications. The substrate withstands heavy interruptions, while the coating provides the wear resistance needed for long tool life. The polished surface resists edge build-up, even at slow cutting speeds. Available in insert sizes and geometries appropriate for heavy feeds and large depths of cut. beyond DRIVE	P								■	■
		M						■	■	■	
KCM35	**Composition:** A multilayer MTCVD TiCN-Al_2O_3 coating over a super-tough substrate. **Application:** Engineered to take on the most brutal cast stainless steel machining applications. The substrate withstands heavy interruptions, while the coating provides the wear resistance needed for long tool life. The polished surface resists edge build-up, even at slow cutting speeds. Available in insert sizes and geometries appropriate for heavy feeds and large depths of cut. beyond	P								■	■
		M						■	■	■	

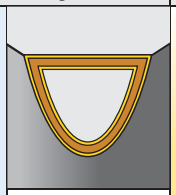
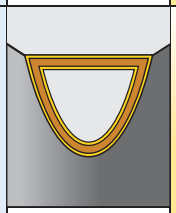


Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

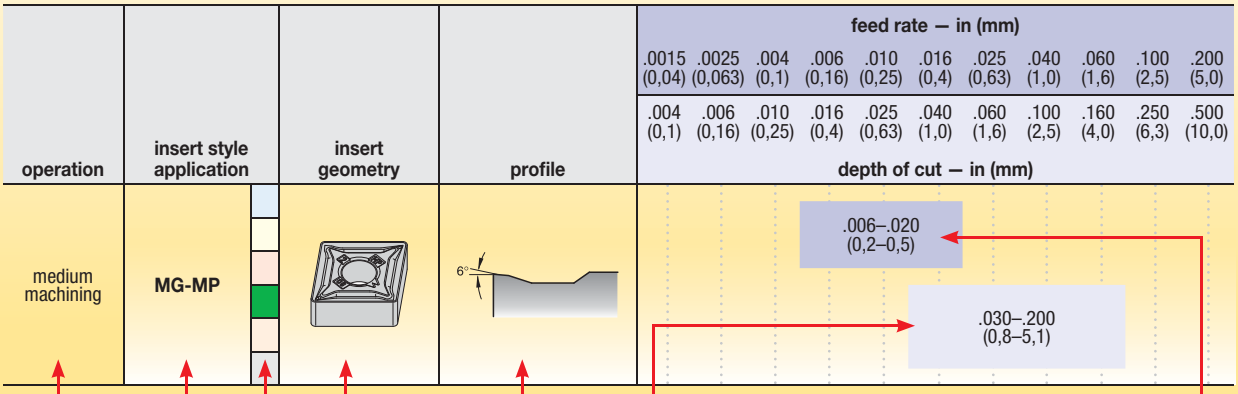
wear resistance ← → toughness

PVD-Coated Cermet Grades

Coating	Grade Description		05	10	15	20	25	30	35	40	45
KT315  —	**Composition:** A multilayer PVD TiN/TiCN/TiN-coated cermet turning grade. **Application:** Ideal for high-speed finishing to medium machining of most carbon and alloy steels and stainless steels. Performs very well in cast and ductile iron applications, too. Provides long and consistent tool life and will produce excellent workpiece finishes.	P									
		M									
		K									
KTP10  —	**Composition:** A multilayer PVD TiN/TiCN/TiN-coated cermet turning grade. **Application:** Ideal for high-speed finishing to medium machining of most carbon and alloy steels and stainless steels. Performs very well in cast and ductile iron applications, too. Provides long and consistent tool life and will produce excellent workpiece finishes.	P									
		M									
		K									

Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials



Feed Rate Range —
for best results, use the center 60% of the range

Depth-of-Cut Range —
for all inserts in the program, select smaller inserts for lighter cuts and larger inserts for heavy cuts

Pictorial View of Insert

Chipbreaker Geometry —
section is through nose radius of insert

Primary Workpiece Material Group

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

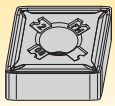
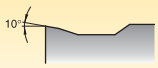
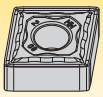
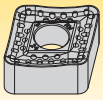
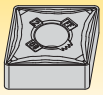
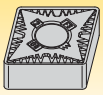
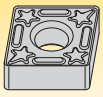
Chip Control Geometry Designation —
example: MG-MP = CNMG-432MP

Machining Operation —
for what the insert geometry is designed

NOTE: For detailed grade and geometry recommendations, reference the Kennametal Beyond™ Selection System on pages B8–B21.

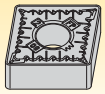
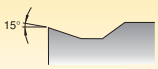
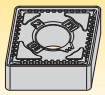
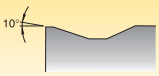
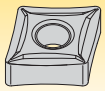
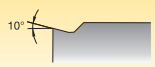
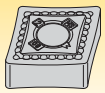
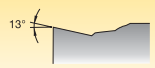
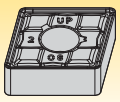
Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
wiper finishing	**MG-FW**			.0015 (0,04) .0025 (0,063) .004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .200 (5,0) .004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .160 (4,0) .250 (6,3) .500 (10,0) .008–.016 (0,2–0,4) .010–.080 (0,25–2,0)
wiper medium machining	**MG-MW**			.012–.024 (0,3–0,6) .030–.200 (0,8–5,1)
wiper roughing	**MM-RW**			.010–.050 (0,3–1,3) .050–.500 (1,3–12,7)
fine finishing	**MG-FF**			.002–.010 (0,05–0,25) .003–.080 (0,08–2,0)
finishing sharp	**GG-FS** precision ground			.003–.010 (0,07–0,25) .008–.080 (0,20–2,0)
finishing	**GG-LF** precision ground			.005–.020 (0,1–0,5) .020–.120 (0,5–3,0)

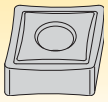
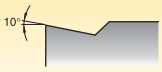
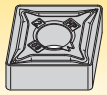
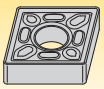
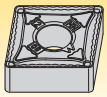
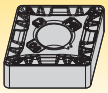
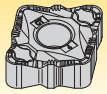
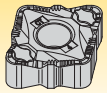
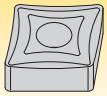
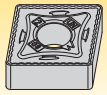
Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
finishing	MG-FP			.0015 (0,04) .0025 (0,063) .004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .200 (5,0) .004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .160 (4,0) .250 (6,3) .500 (10,0) .004–.012 (0,1–0,3) .010–.100 (0,25–2,5)
	MG-FN			.005–.012 (0,1–0,3) .010–.100 (0,3–2,5)
	MP-K			.004–.012 (0,1–0,3) .008–.100 (0,2–2,5)
medium sharp	MG-MS			.005–.014 (0,12–0,35) .030–.200 (0,76–5,0)
medium machining	MG-UP			.008–.025 (0,2–0,6) .040–.250 (1–6,4)

Select the geometry — based on feed rate and depth of cut

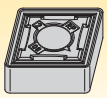
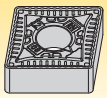
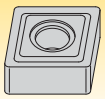
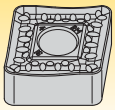
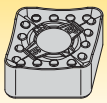
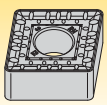
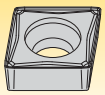
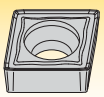
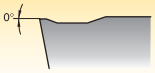
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
				.0015 (0,04) .0025 (0,063) .004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .200 (5,0)
				.004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .160 (4,0) .250 (6,3) .500 (10,0)
medium machining	_GP*			.012–.020 (0,3–0,5); .020–.125 (0,5–3,2)
	MG-MP			.006–.020 (0,15–0,5); .030–.200 (0,8–5,1)
	MG-P			.006–.020 (0,15–0,5); .030–.200 (0,75–5,0)
	MG-MN			.006–.020 (0,15–0,5); .020–.200 (0,5–5,1)
	MG-MR			.06–.2 (0,15–0,55); .06–.25 (1,5–6,3)
	MG-CT O.D. turning			.005–.020 (0,13–0,5); .040–.115 (1,0–3,0)
	MG-CT outward facing			.010–.020 (0,25–0,5); .010–.040 (0,25–1,0)
	-MS single sided			.006–.015 (0,15–0,4); .025–.090 (0,6–2,3)
	MG-UN			.008–.020 (0,2–0,5); .030–.150 (0,8–3,8)

*35° and 55° geometries are single sided.

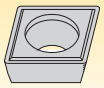
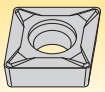
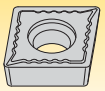
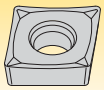
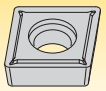
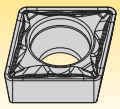
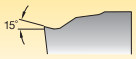
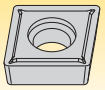
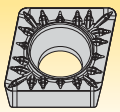
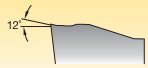
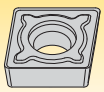
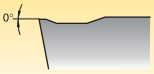
Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

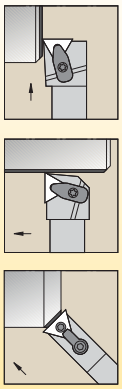
operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
roughing	**MG-RP**			.0015 (0,04) – .004 (0,1): .008–.025 (0,2–0,6); .006 (0,16) – .200 (5,0): .045–.250 (1,1–6,4)
heavy roughing	**MG-RN**			.0015 (0,04) – .004 (0,1): .010–.025 (0,3–0,63); .006 (0,16) – .200 (5,0): .045–.250 (1,1–5,7)
	MG			.0015 (0,04) – .004 (0,1): .012–.030 (0,3–0,8); .006 (0,16) – .200 (5,0): .045–.225 (1,1–5,7)
	MM-RM single sided			.0015 (0,04) – .004 (0,1): .010–.040 (0,3–1,0); .006 (0,16) – .200 (5,0): .050–.500 (1,3–12,7)
	MM-RP single sided			.0015 (0,04) – .004 (0,1): .008–.030 (0,2–1,0); .006 (0,16) – .200 (5,0): .050–.400 (1,3–10,0)
	MM-RH single sided			.0015 (0,04) – .004 (0,1): .015–.050 (0,4–1,3); .006 (0,16) – .200 (5,0): .050–.500 (1,3–12,7)
wiper finishing	**MT-FW**			.0015 (0,04) – .004 (0,1): .003–.013 (0,08–0,35); .006 (0,16) – .200 (5,0): .008–.060 (0,2–1,5)
wiper, medium finishing	**MT-MW**			.0015 (0,04) – .004 (0,1): .005–.020 (0,12–0,5); .006 (0,16) – .200 (5,0): .016–.130 (0,4–3,3)

Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
fine finishing	_GM precision ground			.0015 (0,04) .0025 (0,063) .004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .200 (5,0) .004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .160 (4,0) .250 (6,3) .500 (10,0) .002–.008 (0,05–0,2) .008–.040 (0,2–1,0)
	MT-11			.003–.010 (0,08–0,25) .008–.050 (0,2–1,3)
	.MT-UF			.002–.010 (0,05–0,25) .005–.050 (0,1–1,3)
finishing	GT-HP precision ground			.007–.015 (0,15–0,4) .025–.090 (0,6–2,3)
	GT-LF precision ground			.007–.015 (0,2–0,4) .030–.090 (0,8–2,3)
	MT-FP			.0025–.010 (0,063–0,25) .006–.060 (0,16–1,6)
	MT-LF			.007–.015 (0,2–0,4) .030–.090 (0,8–2,3)
medium machining	MT-MP			.004–.016 (0,15–0,4) .016–.130 (0,4–2,3)
	MT-MF			.009–.017 (0,2–0,4) .045–.090 (1,1–2,3)

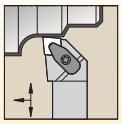
0° Lead Angle

tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
	C 80°	Kenloc™	●		●			B60
		Screw-On	●		●			B193, B209
	D 55°	Screw-On	●	●				B227
	V 35°	Screw-On	●	●				B282
	T 60°	Kenloc	●	●	●	●	●	B132
		Kenclamp	●		●			B131
		Kendex™	●		●			B179
		Screw-On	●					B259, B269

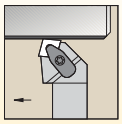
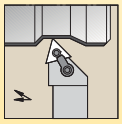
-3° Lead Angle

tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
	D 55°	Kenloc	●	●				B89
		Kenclamp	●	●				B87
		Screw-On	●	●				B228
		TNT	●	●				–
	V 35°	Kenloc	●	●				B152
		Kenclamp	●	●				B150
		Screw-On	●	●				B282
	F 50°	Screw-On	●	●				–
	T 60°	Kenloc	●	●				B136
		Kenclamp	●					B131
		Screw-On	●					B261
		Wedgelock	●	●				–

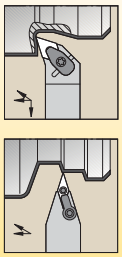
-5° Lead Angle

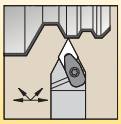
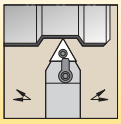
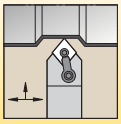
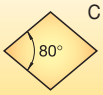
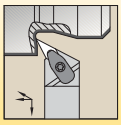
tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
	C 80°	Kenloc	●	●	●			B63
		Kenclamp™	●	●	●			B59
		Screw-On	●	●	●			B194
		TNT	●	●	●			B383
	W 80°	Kenloc	●	●	●			–
		Kenclamp	●	●	●			B163
		Screw-On	●	●	●			B287
		TNT	●	●	●			B384
		Wedgelock™	●	●	●			–

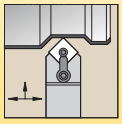
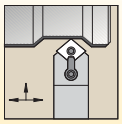
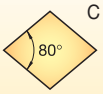
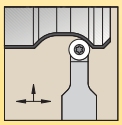
15° and -15° Lead Angle

tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
	C 80°	Kenloc	●		●			B62
		Kenclamp	●		●			B60
		Kendex	●					B383
		Screw-On	●		●			B196, B212
		TNT	●					–
	S 90°	Kenloc	●		●			B111
		Kenclamp	●		●			B109
		Kendex	●		●			B384
	T 60°	Kenloc	●	●				B138
		Kendex	●					B179
	-15° lead angle	Wedgelock	●	●	●			–

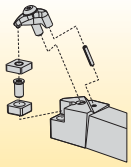
17.5° and -17.5° Lead Angle

tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
	D 55°	Kenloc	●	●				B90
		Kenclamp	●	●				B88
		TNT	●	●				–
	F 50°	Screw-On	●	●				–
	V 35°	Kenloc		●				B153
	-17.5° lead angle	Kenclamp		●				B151

tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
27.5° Lead Angle								
	D 55°	Kenloc™	●	●				B90
		Kenclamp™	●	●				B88
		Screw-On		●				B229
30° Lead Angle								
	T 60°	Kenloc	●	●				B134
		Kendex	●	●				B187
		Wedgelock™	●	●				—
40° Lead Angle								
	 C 80°	Kenloc	●	●	●			B64
		Screw-On	●	●	●			B195, B211
117.5° Lead Angle								
	V 35°	Kenclamp	●		●			B151

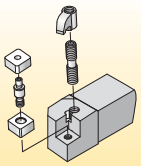
tool path	insert shape	clamping style	Turning	Profiling	Facing	Plunging	Chamfering	page(s)
45° Lead Angle								
	S 90°	Kenloc	●	●	●			B111
		Kenclamp	●	●	●			B109
		Kendex™	●	●	●			B172
		TNT	●	●	●			B383
50° Lead Angle								
	 C 80°	Kenloc	●	●	●			B61
		Kendex	●	●	●			—
	R	Kenloc	●	●	●			B98
		Kenclamp	●	●	●			B98
		Kendex	●	●	●			B168
		Screw-On	●	●	●			B243
		V-Bottom	●	●	●			B168

Clamping Styles



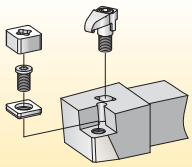
Kenclamp Style

- Uses Kenloc negative style inserts.
- Unique clamp design provides rigid clamping.
- Ensures insert repeatability and seating.
- Reduced chatter and improved tool life.



Kenloc Style

- Uses Kenloc negative style inserts.
- Lock pin and top clamp provide rigid clamping.
- Wide variety of insert styles may be used.
- Tools may be used with or without clamp.



Top Notch™ Turning Style

- Proven superior system in holding ceramic inserts rigidly in turning and profiling operations.
- Uses standard insert sizes — 80°, 75°, 55°, square, and trigon.
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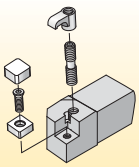
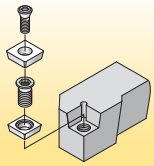


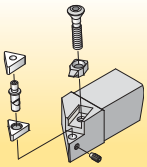
Kendex Style

- Uses Kendex inserts.
- Chipbreaker option available for ceramic inserts.
- Wide variety of insert styles may be used.



Screw-On Style

- Top clamping by screw for Screw-On inserts.

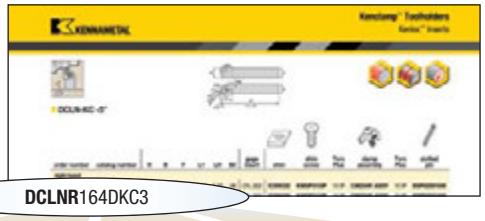


Wedgelock™ Style

- Top and hole clamping for inserts with hole.

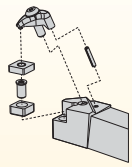
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



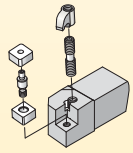
D — Insert Holding Method

D



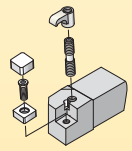
Kenclamp™

M



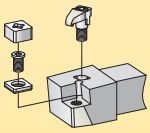
Kenloc™

C



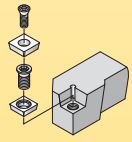
Kendex™

N



Top Notch™ Profiling

S



Screw-On

C — Insert Shape

A	85°
B	82°
C	80°
D	55°
E	75°
H	120°
K	55°
L	90°
M	86°
O	135°
P	108°
R	
S	90°
T	60°
V	35°
W	80°

L — Tool Style or Lead Angle

A	0°	L	5°
B	15°	M	40°
C	0°	P	27.5°
D	45°	Q	27.5°
E	30°	R	15°
F	0°	S	45°
G	0°	U	3°
H	50°	V	17.5°
J	3°	Y	5°
K	15°		

N — Insert Clearance Angle

N	0°
B	5°
C	7°
P	11°
D	15°
E	20°
F	25°

R — Hand of Tool

R =
Right hand

L =
Left hand

N =
Neutral

Additional Information

C =

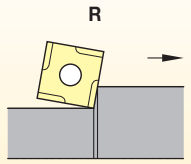
Deep pocket for ceramic insert

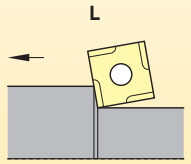
S =

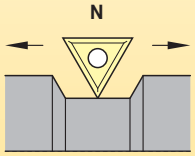
Single pocket locating wall

F =

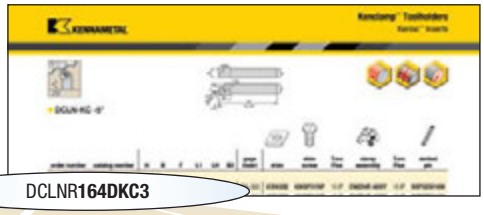
Straight shank, no offset





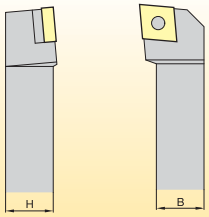


By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



DCLNR**164DKC3**

1	6	4	D	KC	3
Shank Dimensions		Insert Size	Qualified Surface and Length	Additional Information	Insert Thickness *(optional)*



This two-digit number indicates the holder cross section.

- For shanks 5/8" square and larger, the number represents the number of sixteenths of width and height.
- For shanks under 5/8" square, the number of sixteenths of cross section are preceded by zero.
- For rectangular holders, the first digit represents the number of eighths of width "B" and the second digit the number of quarters of height "H," except for a toolholder 1-1/4" x 1-1/2", which is given the number 91.

06 = 0.375
08 = 0.500
10 = 0.625
12 = 0.750
16 = 1.000
20 = 1.250
24 = 1.500
32 = 2.000

Insert IC

Number of 1/8ths of "D"

A = Qualified back and end, 4" long
B = Qualified back and end, 4.5" long
C = Qualified back and end, 5" long
D = Qualified back and end, 6" long
E = Qualified back and end, 7" long
F = Qualified back and end, 8" long
G* = Qualified back and end, 5.5" long
H* = Qualified back and end, 5.625" long
I* = Qualified back and end, 3" long
J* = Qualified back and end, 5.3" long
K* = Qualified back and end, 14" long
L* = Qualified back and end, 6.8" long
M = Qualified front and end, 4" long
N = Qualified front and end, 4.5" long
P = Qualified front and end, 5" long
R = Qualified front and end, 6" long
S = Qualified front and end, 7" long
T = Qualified front and end, 8" long
U* = Qualified front and end, 5.5" long
V* = Qualified back and end, 3.5" long
W* = Qualified front and end, 3.5" long
Y* = Qualified back and end, 3.75" long
Z* = Qualified back and end, 3.250" long

* Kennametal standard only.

R =

Radial clearance for 4" minimum bore

S =

3.00 minimum bore

KC =

Kenclamp™

H4 =

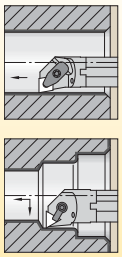
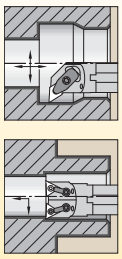
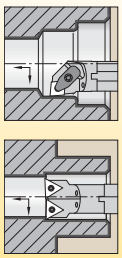
Wedgelock™ clamping system

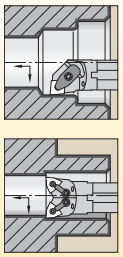
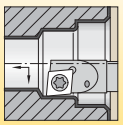
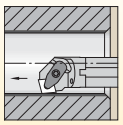
M.. =

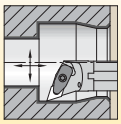
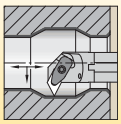
TNT/MTS clamping system for ceramic and PcBN inserts

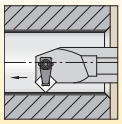
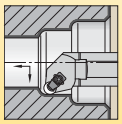
3 = .188"

4 = .250"

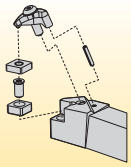
tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
0° Lead Angle						
	C 80°	Kenloc™	•			B69
		Screw-On	•		•	B196, B212
		Kenclamp™	•			B67
	T 60°	Kenloc	•			B139
		Kenclamp	•			B138
		Kendex™	•		•	B183
		Screw-On	•		•	B261, B271
-3° Lead Angle						
	D 55°	Kenloc	•		•	B93
		Kenclamp	•		•	B92
		Screw-On	•		•	B228, B234
		TNT	•		•	–
	V 35°	Kenloc	•		•	B154
		Screw-On	•		•	B285
	T 60°	Kenloc	•			B139
		Screw-On	•			–
	W 80°	Screw-On	•		•	B282
-5° Lead Angle						
	C 80°	Kenloc	•		•	B69
		Kenclamp	•		•	B68
		Kendex	•		•	B391
		Screw-On	•		•	B197, B213
		TNT	•		•	B165

tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
-5° Lead Angle						
	T 60°	Kendex	•		•	B185
		Screw-On	•		•	B274
	D 55°	Screw-On		•		B262, B274
	V 35°	Screw-On	•		•	B284
	W 80°	Kenloc	•			–
		Screw-On	•		•	B289
		TNT	•		•	–
7° Lead Angle						
	C 80°	Screw-On	•		•	B204
-10° Lead Angle						
	V 35°	Screw-On	•		•	B286
15° and -15° Lead Angle						
	C 80°	Kenloc	•			B70
		Kenclamp	•			B67
	S 90°	Kenloc				B114
		Kenclamp	•			B113
		Kendex	•			B173
		TNT	•			–
	F 50° -15° lead angle	Screw-On	•		•	–

tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
-17.5° Lead Angle						
	D 55°	Kenloc™	•		•	B92
		Kenclamp™	•		•	B91
	V 35°	Screw-On	•		•	B284
27.5° Lead Angle						
	D 55°	Kenloc	•		•	B92
		Kenclamp	•		•	B91

tool path	insert shape	clamping style	Boring	Back Boring	Profiling	page(s)
45° Lead Angle						
	S 90°	Kenloc	•			–
	R	Kendex™	•		•	B388
		TNT	•		•	B391

Clamping Styles



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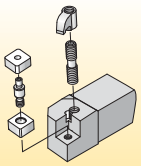

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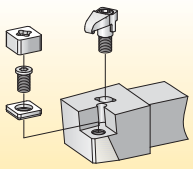

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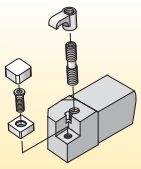

Kendex Style

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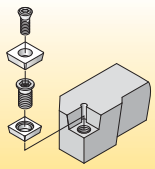
- Chipbreaker option available for ceramic inserts.
- Wide variety of insert styles may be used.

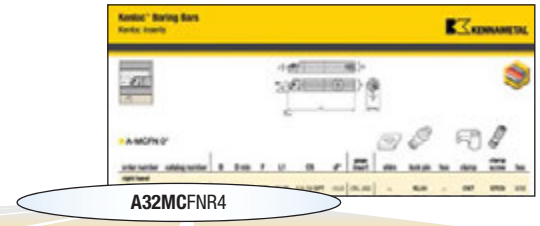


Screw-On Style

- Top clamping by screw for Screw-On inserts.

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



A — Bar Type

A — Steel bar with coolant

S — Steel bar without coolant

C — Carbide bar

D — DeVibrator bar with coolant

D — Tunable bar with coolant

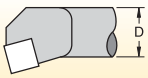
E — Carbide bar with coolant

B — DeVibrator

H — Interchangeable head

L — Heavy metal bar with coolant

32 — Bar Diameter



Inch:
A two-digit number indicates the bar diameter in 1/16" increments

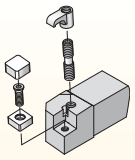
Bar Length**

3	=	F
3.5	=	G
4	=	H
4.5	=	J
5	=	K
5.5	=	L
6	=	M
6.5	=	N
7	=	Q
8	=	R
10	=	S
12	=	T
14	=	U
16	=	V
18	=	W
20	=	Y

**Used only when more than one length is available or a special length is required.

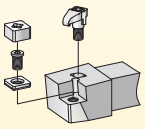
M — Insert Holding Method

C



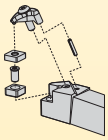
Kendex™

N



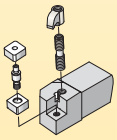
Top Notch™ Profiling

D



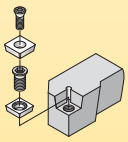
Kenclamp™

M



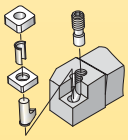
Kenloc™

S



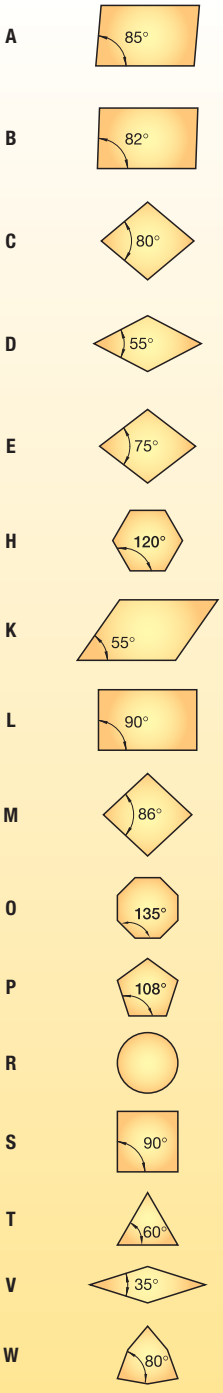
Screw-On

P

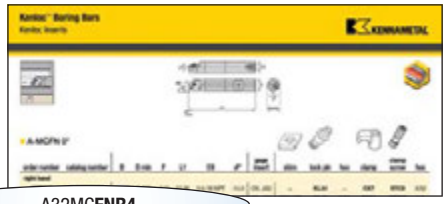


Kenlever™

C — Insert Shape



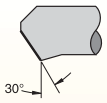
By referencing this easy-to-use guide, you can identify the correct product to meet your needs.

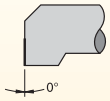


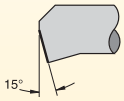
A32MC**FNR4**

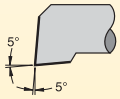
F	**N**	**R**	**4**	
Bar Style or Lead Angle	Insert Clearance Angle	Hand of Tool	Insert Size	Additional Information

F – Bar Style or Lead Angle

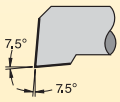
E


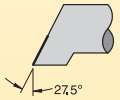
F


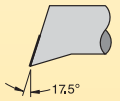
K


L


(E-style inserts)

L


P


Q


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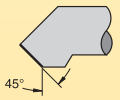

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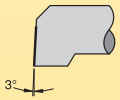
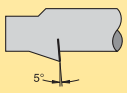
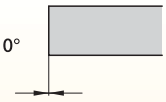
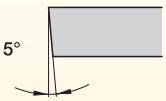
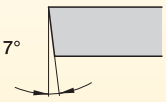


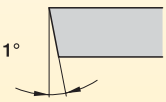
X


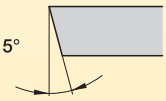
N – Insert Clearance Angle

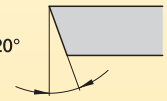
N 0°


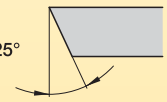
B 5°


C 7°


P 11°


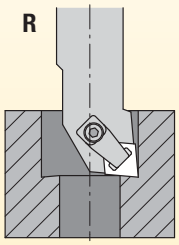
D 15°


E 20°


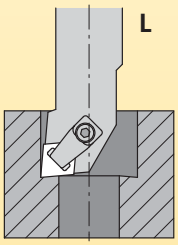
F 25°


R – Hand of Tool

R =
Right-hand boring bar



L =
Left-hand boring bar



4 – Insert Size

Insert IC
Number of 1/8ths of “D”

Additional Information

M... =

TNT/MTS clamping systems for ceramic and PcBN inserts

D =

Dual pocket

AP5 =

Axial positive

KC =

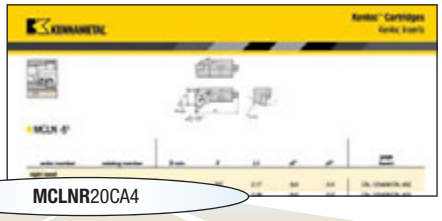
Kenclamp™

+ =

Insert Thickness

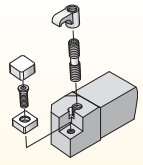
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



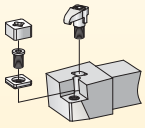
M — Insert Clamping System

C



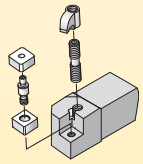
Kendex™

N



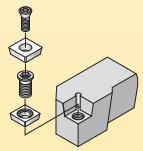
Top Notch™ Profiling

M



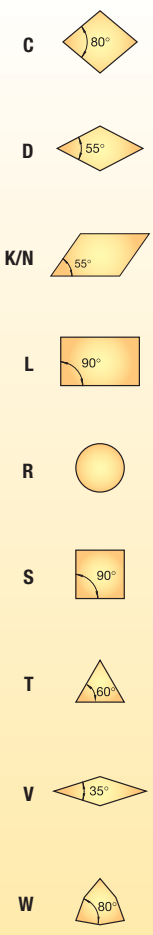
Kenloc™

S

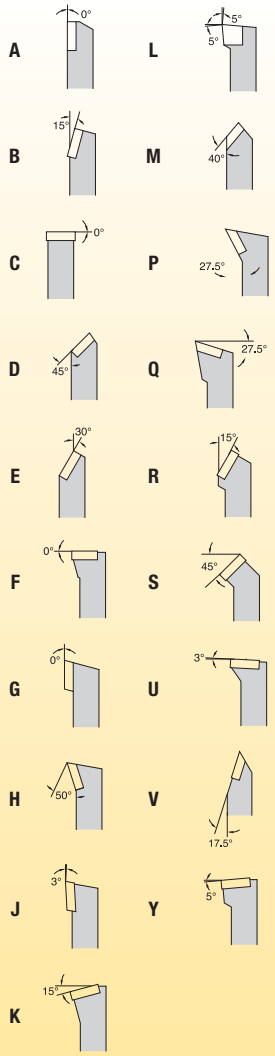


Screw-On

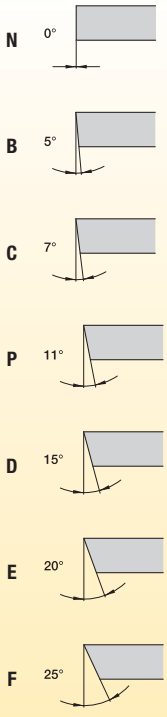
C — Insert Shape



L — Tool Style or Lead Angle



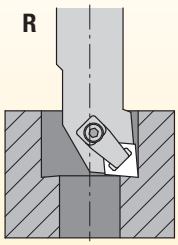
N — Insert Clearance Angle



R — Hand of Tool

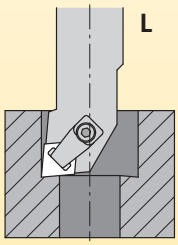
R =

Right-hand boring bar

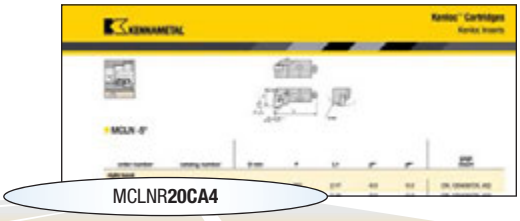


L =

Left-hand boring bar

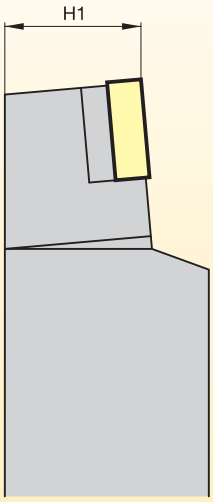


By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



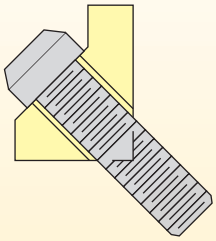
20	C	A	4
Cartridge Size	Identifying Code of Cartridge	Mounting Design of Cartridge	Insert Size

H1 = Cutting edge height of cartridge, in inches



C = Cartridge

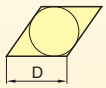
A = Angular acc. ISO 5611



Insert IC
Number of 1/8ths of "D"

C

D



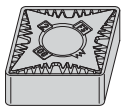
R

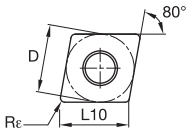
S

T

W

● first choice
○ alternate choice

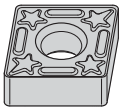


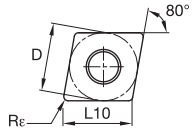


CNGG-FS

P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●									●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

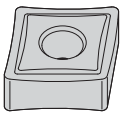
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGG120401FS	CNGG430FS	12,70	1/2	12,90	.508	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120402FS	CNGG4305FS	12,70	1/2	12,90	.508	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
CNGG120404FS	CNGG431FS	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNGG120408FS	CNGG432FS	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–

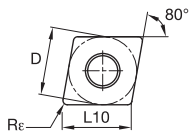




CNGG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGG120401LF	CNGG430LF	12,70	1/2	12,90	.508	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–
CNGG120402LF	CNGG4305LF	12,70	1/2	12,90	.508	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–
CNGG120404LF	CNGG431LF	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–
CNGG120408LF	CNGG432LF	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–
CNGG120412LF	CNGG433LF	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–





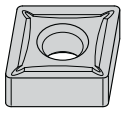
CNGP

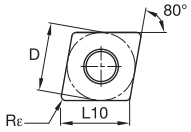
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGP120401	CNGP430	12,70	1/2	12,90	.508	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
CNGP120402	CNGP4305	12,70	1/2	12,90	.508	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
CNGP120404	CNGP431	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	●	–
CNGP120408	CNGP432	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	●	–
CNGP120412	CNGP433	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–
CNGP120416	CNGP434	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

NOTE: Indexable Inserts for P-clamping.

● first choice
○ alternate choice

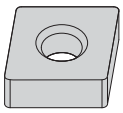
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

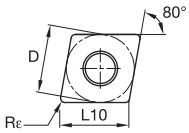




CNGP-K

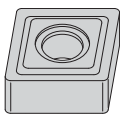
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGP120408K	CNGP432K	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNGP160612K	CNGP543K	15,88	5/8	16,12	.635	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

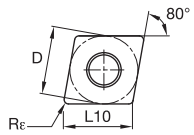




CNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMA120404	CNMA431	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA120408	CNMA432	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMA120412	CNMA433	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA120416	CNMA434	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA160608	CNMA542	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA160612	CNMA543	15,88	5/8	16,12	.635	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA160616	CNMA544	15,88	5/8	16,12	.635	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA190612	CNMA643	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA190616	CNMA644	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



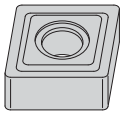


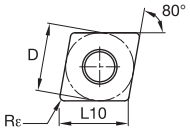
CNMG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404B	CNMG431	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMG120408	CNMG432	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–
CNMG120412	CNMG433	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMG190612	CNMG643	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
CNMG190616	CNMG644	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG250924	CNMG866	25,40	1	25,79	1.015	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

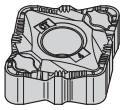
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

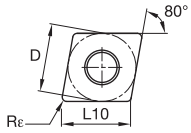




CNMG-33

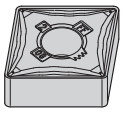
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG12040833	CNMG43233	12,70	1/2	12,90	.508	0,8	1/32

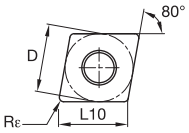




CNMG-CT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG120408CT	CNMG432CT	12,70	1/2	12,90	.508	0,8	1/32
CNMG120412CT	CNMG433CT	12,70	1/2	12,90	.508	1,2	3/64
CNMG120416CT	CNMG434CT	12,70	1/2	12,90	.508	1,6	1/16

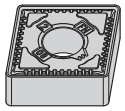


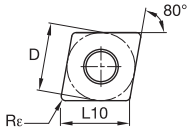


CNMG-FF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG090304FF	CNMG321FF	9,53	3/8	9,67	.381	0,4	1/64
CNMG090308FF	CNMG322FF	9,53	3/8	9,67	.381	0,8	1/32
CNMG120404FF	CNMG431FF	12,70	1/2	12,90	.508	0,4	1/64
CNMG120408FF	CNMG432FF	12,70	1/2	12,90	.508	0,8	1/32

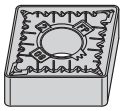
● first choice
○ alternate choice

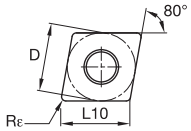




CNMG-FN

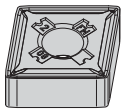
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090304FN	CNMG321FN	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG090308FN	CNMG322FN	9,53	3/8	9,67	.381	0,8	1/32	–	–	●	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120402FN	CNMG4305FN	12,70	1/2	12,90	.508	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120404FN	CNMG431FN	12,70	1/2	12,90	.508	0,4	1/64	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG120408FN	CNMG432FN	12,70	1/2	12,90	.508	0,8	1/32	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG120412FN	CNMG433FN	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–	●	●	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG120416FN	CNMG434FN	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

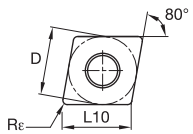




CNMG-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404FP	CNMG431FP	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120408FP	CNMG432FP	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120412FP	CNMG433FP	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–



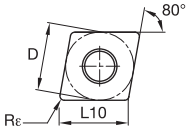


CNMG-FW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404FW	CNMG431FW	12,70	1/2	12,90	.508	0,4	1/64	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	●
CNMG120408FW	CNMG432FW	12,70	1/2	12,90	.508	0,8	1/32	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120412FW	CNMG433FW	12,70	1/2	12,90	.508	1,2	3/64	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	●

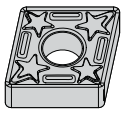
● first choice
○ alternate choice

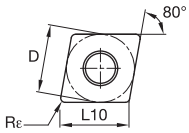
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																



CNMG-FM

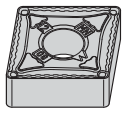
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120412FM	CNMG433FM	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

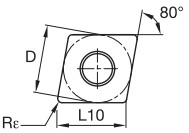




CNMG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120402LF	CNMG4305LF	12,70	1/2	12,90	.508	0,2	.008	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120404LF	CNMG431LF	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408LF	CNMG432LF	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



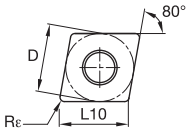


CNMG-MN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090304MN	CNMG321MN	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG090308MN	CNMG322MN	9,53	3/8	9,67	.381	0,8	1/32	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG090312MN	CNMG323MN	9,53	3/8	9,67	.381	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120404MN	CNMG431MN	12,70	1/2	12,90	.508	0,4	1/64	–	–	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408MN	CNMG432MN	12,70	1/2	12,90	.508	0,8	1/32	●	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG120412MN	CNMG433MN	12,70	1/2	12,90	.508	1,2	3/64	–	●	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416MN	CNMG434MN	12,70	1/2	12,90	.508	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608MN	CNMG542MN	15,88	5/8	16,12	.635	0,8	1/32	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612MN	CNMG543MN	15,88	5/8	16,12	.635	1,2	3/64	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616MN	CNMG544MN	15,88	5/8	16,12	.635	1,6	1/16	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190608MN	CNMG642MN	19,05	3/4	19,34	.762	0,8	1/32	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612MN	CNMG643MN	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190616MN	CNMG644MN	19,05	3/4	19,34	.762	1,6	1/16	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190624MN	CNMG646MN	19,05	3/4	19,34	.762	2,4	3/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

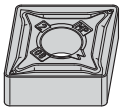
● first choice
○ alternate choice

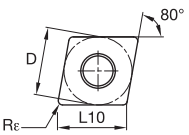
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																



CNMU-MN

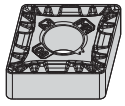
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMU120612MN	CNMU443MN	12,70	1/2	12,90	.508	1,2	3/64
CNMU120616MN	CNMU444MN	12,70	1/2	12,90	.508	1,6	1/16

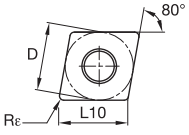




CNMG-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG090308MP	CNMG322MP	9,53	3/8	9,67	.381	0,8	1/32
CNMG120404MP	CNMG431MP	12,70	1/2	12,90	.508	0,4	1/64
CNMG120408MP	CNMG432MP	12,70	1/2	12,90	.508	0,8	1/32
CNMG120412MP	CNMG433MP	12,70	1/2	12,90	.508	1,2	3/64
CNMG120416MP	CNMG434MP	12,70	1/2	12,90	.508	1,6	1/16
CNMG160608MP	CNMG542MP	15,88	5/8	16,12	.635	0,8	1/32
CNMG160612MP	CNMG543MP	15,88	5/8	16,12	.635	1,2	3/64
CNMG160616MP	CNMG544MP	15,88	5/8	16,12	.635	1,6	1/16
CNMG190608MP	CNMG642MP	19,05	3/4	19,34	.762	0,8	1/32
CNMG190612MP	CNMG643MP	19,05	3/4	19,34	.762	1,2	3/64
CNMG190616MP	CNMG644MP	19,05	3/4	19,34	.762	1,6	1/16

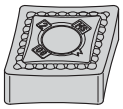


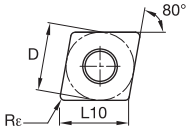


CNMG-MR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG120404MR	CNMG431MR	12,70	1/2	12,90	.508	0,4	1/64
CNMG120408MR	CNMG432MR	12,70	1/2	12,90	.508	0,8	1/32
CNMG120412MR	CNMG433MR	12,70	1/2	12,90	.508	1,2	3/64
CNMG120416MR	CNMG434MR	12,70	1/2	12,90	.508	1,6	1/16
CNMG160608MR	CNMG542MR	15,88	5/8	16,12	.635	0,8	1/32
CNMG160612MR	CNMG543MR	15,88	5/8	16,12	.635	1,2	3/64
CNMG160616MR	CNMG544MR	15,88	5/8	16,12	.635	1,6	1/16
CNMG190612MR	CNMG643MR	19,05	3/4	19,34	.762	1,2	3/64
CNMG190616MR	CNMG644MR	19,05	3/4	19,34	.762	1,6	1/16

● first choice
○ alternate choice





CNMG-MS

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG120401MS	CNMG430MS	12,70	1/2	12,90	.508	0,1	.004
CNMG120402MS	CNMG4305MS	12,70	1/2	12,90	.508	0,2	.008
CNMG120404MS	CNMG431MS	12,70	1/2	12,90	.508	0,4	1/64
CNMG120408MS	CNMG432MS	12,70	1/2	12,90	.508	0,8	1/32
CNMG120412MS	CNMG433MS	12,70	1/2	12,90	.508	1,2	3/64
CNMG120416MS	CNMG434MS	12,70	1/2	12,90	.508	1,6	1/16
CNMG160608MS	CNMG542MS	15,88	5/8	16,12	.635	0,8	1/32
CNMG160612MS	CNMG543MS	15,88	5/8	16,12	.635	1,2	3/64
CNMG190608MS	CNMG642MS	19,05	3/4	19,34	.762	0,8	1/32
CNMG190612MS	CNMG643MS	19,05	3/4	19,34	.762	1,2	3/64
CNMG190616MS	CNMG644MS	19,05	3/4	19,34	.762	1,6	1/16

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
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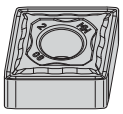

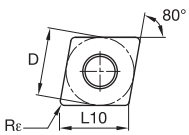

CNMG-MW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG120408MW	CNMG432MW	12,70	1/2	12,90	.508	0,8	1/32
CNMG120412MW	CNMG433MW	12,70	1/2	12,90	.508	1,2	3/64

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		–	●	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
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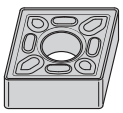

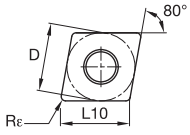

CNMG-P

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG120404P	CNMG431P	12,70	1/2	12,90	.508	0,4	1/64
CNMG120408P	CNMG432P	12,70	1/2	12,90	.508	0,8	1/32
CNMG120412P	CNMG433P	12,70	1/2	12,90	.508	1,2	3/64
CNMG190612P	CNMG643P	19,05	3/4	19,34	.762	1,2	3/64

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	●	–	●	–	–	–
M																																
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S																																
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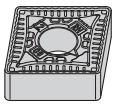
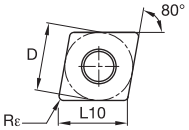
● first choice
○ alternate choice

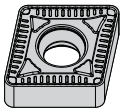


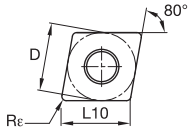


CNMG-RN

P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●		
S																									●	●	●	●	●	●			
H																																	

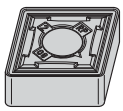
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120408RN	CNMG432RN	12,70	1/2	12,90	.508	0,8	1/32	–	●	●	●	●	●	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120412RN	CNMG433RN	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
CNMG120416RN	CNMG434RN	12,70	1/2	12,90	.508	1,6	1/16	–	–	●	●	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608RN	CNMG542RN	15,88	5/8	16,12	.635	0,8	1/32	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612RN	CNMG543RN	15,88	5/8	16,12	.635	1,2	3/64	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
CNMG160616RN	CNMG544RN	15,88	5/8	16,12	.635	1,6	1/16	–	–	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
CNMG190608RN	CNMG642RN	19,05	3/4	19,34	.762	0,8	1/32	–	–	●	–	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612RN	CNMG643RN	19,05	3/4	19,34	.762	1,2	3/64	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190616RN	CNMG644RN	19,05	3/4	19,34	.762	1,6	1/16	–	–	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
CNMG190624RN	CNMG646RN	19,05	3/4	19,34	.762	2,4	3/32	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

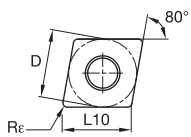




CNMU-RN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMU120412RN	CNMU433RN	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

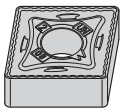


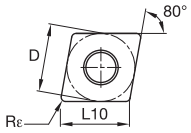


CNMG-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404RP	CNMG431RP	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	●	●	–	–
CNMG120408RP	CNMG432RP	12,70	1/2	12,90	.508	0,8	1/32	●	●	●	●	●	●	●	●	–	●	–	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●	●	●	●	–	–
CNMG120412RP	CNMG433RP	12,70	1/2	12,90	.508	1,2	3/64	–	●	●	●	●	●	●	●	●	●	–	●	●	●	●	●	●	–	●	●	●	●	●	–	–	●	●	●	●	–	–
CNMG120416RP	CNMG434RP	12,70	1/2	12,90	.508	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	●	●	–	●	–	–	–	●	●	●	–	–	–
CNMG160608RP	CNMG542RP	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
CNMG160612RP	CNMG543RP	15,88	5/8	16,12	.635	1,2	3/64	–	–	●	●	●	●	–	●	●	●	–	●	–	●	●	●	●	–	●	●	●	●	●	–	–	●	●	●	●	–	–
CNMG160616RP	CNMG544RP	15,88	5/8	16,12	.635	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	●	●	–	–	●	–	–	–	●	–	●	–	–
CNMG190612RP	CNMG643RP	19,05	3/4	19,34	.762	1,2	3/64	–	–	●	–	●	●	–	●	●	–	–	–	–	●	–	–	–	–	●	●	–	●	–	–	–	●	●	●	●	–	–
CNMG190616RP	CNMG644RP	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	●	●	–	–	●	●	–	–	–	–

● first choice
○ alternate choice



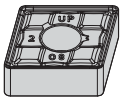


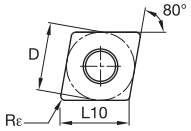
CNMG-UN

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG120404UN	CNMG431UN	12,70	1/2	12,90	.508	0,4	1/64
CNMG120408UN	CNMG432UN	12,70	1/2	12,90	.508	0,8	1/32
CNMG120412UN	CNMG433UN	12,70	1/2	12,90	.508	1,2	3/64
CNMG120416UN	CNMG434UN	12,70	1/2	12,90	.508	1,6	1/16
CNMG160608UN	CNMG542UN	15,88	5/8	16,12	.635	0,8	1/32
CNMG160612UN	CNMG543UN	15,88	5/8	16,12	.635	1,2	3/64
CNMG160616UN	CNMG544UN	15,88	5/8	16,12	.635	1,6	1/16
CNMG190608UN	CNMG642UN	19,05	3/4	19,34	.762	0,8	1/32
CNMG190612UN	CNMG643UN	19,05	3/4	19,34	.762	1,2	3/64
CNMG190616UN	CNMG644UN	19,05	3/4	19,34	.762	1,6	1/16

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

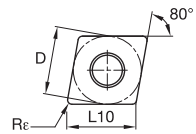




CNMG-UP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMG120404UP	CNMG431UP	12,70	1/2	12,90	.508	0,4	1/64
CNMG120408UP	CNMG432UP	12,70	1/2	12,90	.508	0,8	1/32
CNMG120412UP	CNMG433UP	12,70	1/2	12,90	.508	1,2	3/64
CNMG160608UP	CNMG542UP	15,88	5/8	16,12	.635	0,8	1/32
CNMG160612UP	CNMG543UP	15,88	5/8	16,12	.635	1,2	3/64
CNMG190612UP	CNMG643UP	19,05	3/4	19,34	.762	1,2	3/64
CNMG190616UP	CNMG644UP	19,05	3/4	19,34	.762	1,6	1/16

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

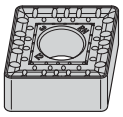


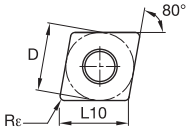
CNMM-MR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CNMM120408MR	CNMM432MR	12,70	1/2	12,90	.508	0,8	1/32
CNMM160612MR	CNMM543MR	15,88	5/8	16,12	.635	1,2	3/64
CNMM160616MR	CNMM544MR	15,88	5/8	16,12	.635	1,6	1/16
CNMM190616MR	CNMM644MR	19,05	3/4	19,34	.762	1,6	1/16

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

● first choice
○ alternate choice

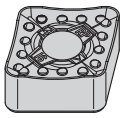


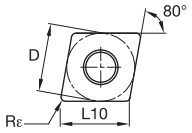


CNMM-RH

| | | |

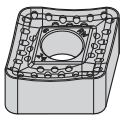
● first choice
○ alternate choice

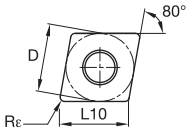




CNMM-RP

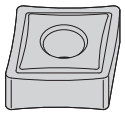
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM120408RP	CNMM432RP	12,70	1/2	12,90	.508	0,8	1/32	–	●	–	●	●	–	–	–	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
CNMM120412RP	CNMM433RP	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM120416RP	CNMM434RP	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160608RP	CNMM542RP	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160612RP	CNMM543RP	15,88	5/8	16,12	.635	1,2	3/64	–	–	●	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160616RP	CNMM544RP	15,88	5/8	16,12	.635	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–
CNMM160624RP	CNMM546RP	15,88	5/8	16,12	.635	2,4	3/32	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190612RP	CNMM643RP	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190616RP	CNMM644RP	19,05	3/4	19,34	.762	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190624RP	CNMM646RP	19,05	3/4	19,34	.762	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RP	CNMM866RP	25,40	1	25,79	1.015	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

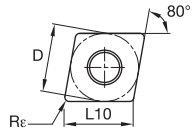




CNMM-RW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM190624RW	CNMM646RW	19,05	3/4	19,34	.762	2,4	3/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RW	CNMM866RW	25,40	1	25,79	1.015	2,4	3/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



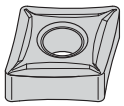


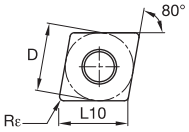
CNMP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMP120404	CNMP431	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–
CNMP120408	CNMP432	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–
CNMP120412	CNMP433	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMP160608	CNMP542	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMP190612	CNMP643	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

● first choice
○ alternate choice

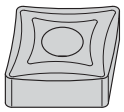
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

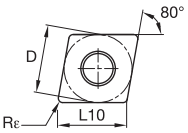




CNMP-K

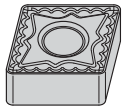
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMP120404K	CNMP431K	12,70	1/2	12,90	.508	0,4	1/64	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMP120408K	CNMP432K	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

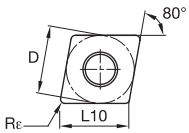




CNMS

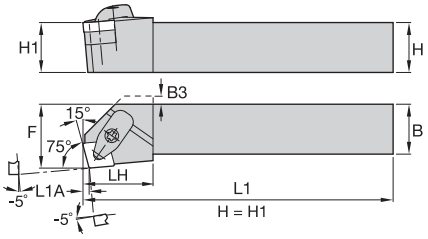
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMS120408	CNMS432	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
CNMS160608	CNMS542	15,88	5/8	16,12	.635	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
CNMS190608	CNMS642	19,05	3/4	19,34	.762	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
CNMS190612	CNMS643	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

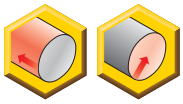




CNMG-MG

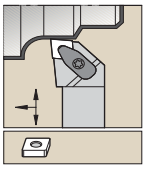
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120408MG	CNMG432MG	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG120412MG	CNMG433MG	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416MG	CNMG434MG	12,70	1/2	12,90	.508	1,6	1/16	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616MG	CNMG544MG	15,88	5/8	16,12	.635	1,6	1/16	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612MG	CNMG643MG	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

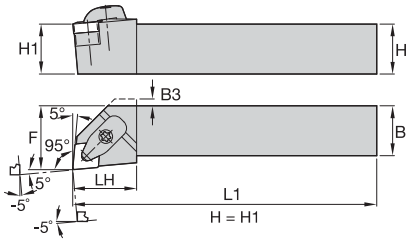




DCKN-KC 15°

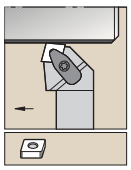
order number	catalog number	H	B	F	L1	LH	L1A	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand															
2273073	**DCKNR124BKC3**	.75	.75	1.000	4.50	1.25	.122	.22	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273063	**DCKNR164CKC3**	1.00	1.00	1.250	5.00	1.25	.122	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273004	**DCKNR164DKC3**	1.00	1.00	1.250	5.00	1.25	.122	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273006	**DCKNR204DKC3**	1.00	1.00	1.250	6.00	1.25	.122	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273059	**DCKNR205DKC4**	1.25	1.25	1.500	6.00	1.25	.122	—	CN..432	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
2273061	**DCKNR206DKC4**	1.25	1.25	1.500	6.00	1.25	.150	—	CN..543	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	15 IP	**SSP025016M**
left hand															
2273005	**DCKNL164DKC3**	1.00	1.00	1.250	6.00	1.25	.122	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273007	**DCKNL204DKC3**	1.25	1.25	1.500	6.00	1.25	.122	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

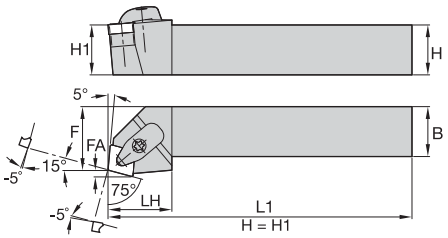


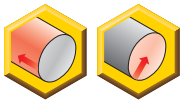


DCLN-KC -5°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
2417292	**DCLNR123BKC3**	.75	.75	1.000	4.50	1.12	.06	CN..322	**ICSN332**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2417294	**DCLNR163DKC3**	1.00	1.00	1.250	6.00	1.12	—	CN..332	**ICSN332**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875137	**DCLNR124BKC3**	.75	.75	1.000	4.50	1.25	.15	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875134	**DCLNR164CKC3**	1.00	1.00	1.250	5.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1874862	**DCLNR164DKC3**	1.00	1.00	1.250	6.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875141	**DCLNR204DKC3**	1.25	1.25	1.500	6.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875157	**DCLNR244DKC3**	1.50	1.50	2.000	6.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875161	**DCLNR165CKC4**	1.00	1.00	1.250	5.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875145	**DCLNR165DKC4**	1.00	1.00	1.250	6.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875150	**DCLNR205DKC4**	1.25	1.25	1.500	6.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1908809	**DCLNR245DKC4**	1.50	1.50	2.000	6.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
2273008	**DCLNR166DKC4**	1.00	1.00	1.250	6.00	1.38	—	CN..643	**ICSN633**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**
2273010	**DCLNR206DKC4**	1.25	1.25	1.500	6.00	1.63	—	CN..643	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**
2273012	**DCLNR246DKC4**	1.50	1.50	2.000	6.00	1.63	—	CN..643	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**
left hand														
2417293	**DCLNL123BKC3**	.75	.75	1.000	4.50	1.12	.06	CN..322	**ICSN332**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2417295	**DCLNL163DKC3**	1.00	1.00	1.250	6.00	1.12	—	CN..322	**ICSN332**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875142	**DCLNL124BKC3**	.75	.75	1.000	4.50	1.25	.15	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875135	**DCLNL164CKC3**	1.00	1.00	1.250	5.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875133	**DCLNL164DKC3**	1.00	1.00	1.250	6.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875146	**DCLNL204DKC3**	1.25	1.25	1.500	6.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875160	**DCLNL244DKC3**	1.50	1.50	2.000	6.00	1.25	—	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875173	**DCLNL165CKC4**	1.00	1.00	1.250	5.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875147	**DCLNL165DKC4**	1.00	1.00	1.250	6.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875153	**DCLNL205DKC4**	1.25	1.25	1.500	6.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1908811	**DCLNL245DKC4**	1.50	1.50	2.000	6.00	1.38	—	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
2273011	**DCLNL206DKC4**	1.25	1.25	1.500	6.00	1.63	—	CN..643	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**
2273013	**DCLNL246DKC4**	1.50	1.50	2.000	6.00	1.63	—	CN..643	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**



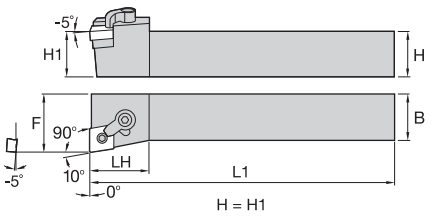


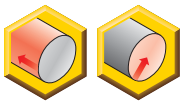


DCRN-KC 15°

order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
1875164	**DCRNR124BKC3**	.75	.75	.878	4.50	1.25	.12	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875156	**DCRNR164DKC3**	1.00	1.00	1.128	6.00	1.25	.12	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875165	**DCRNR204DKC3**	1.25	1.25	1.378	6.00	1.25	.12	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875180	**DCRNR245DKC4**	1.50	1.50	1.851	6.00	1.38	.15	CN..543	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
2273081	**DCRNR206DKC4**	1.25	1.25	1.501	6.00	1.38	.18	CN..643	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**
left hand														
1875159	**DCRNL164DKC3**	1.00	1.00	1.128	6.00	1.25	.12	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875169	**DCRNL204DKC3**	1.25	1.25	1.378	6.00	1.25	.12	CN..432	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

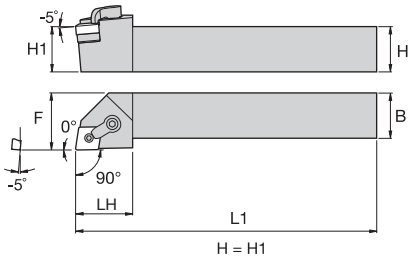
Kenloc Toolholders

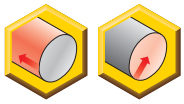




MCFN 0°

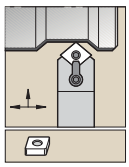
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096032	**MCFNR124B**	.75	.75	1.000	4.50	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096033	**MCFNR164C**	1.00	1.00	1.250	5.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096034	**MCFNR164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
left hand													
1096037	**MCFNL164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8

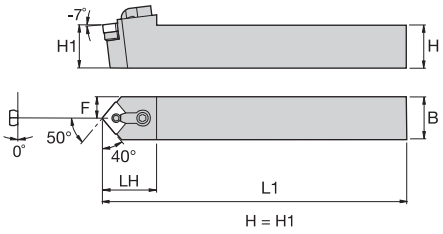




MCGN 0°

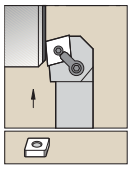
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096110	**MCGNR124B**	.75	.75	1.000	4.50	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096111	**MCGNR164C**	1.00	1.00	1.250	5.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096112	**MCGNR164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
left hand													
1096113	**MCGNL124B**	.75	.75	1.000	4.50	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096114	**MCGNL164C**	1.00	1.00	1.250	5.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096115	**MCGNL164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8

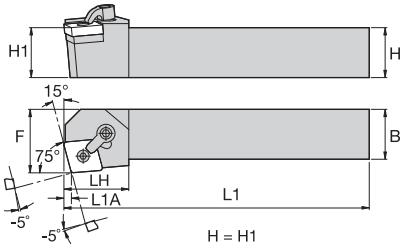


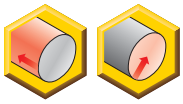


MCHN 50°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1808120	**MCHNN164C**	1.00	1.00	.500	5.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
1808121	**MCHNN205D**	1.25	1.25	.625	6.00	1.38	CN..543	**ICSN533**	**KL58**	1/8	**CK21**	**STC20**	1/8
1808122	**MCHNN246D**	1.50	1.50	.750	6.00	1.60	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

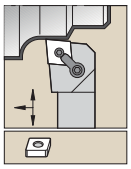


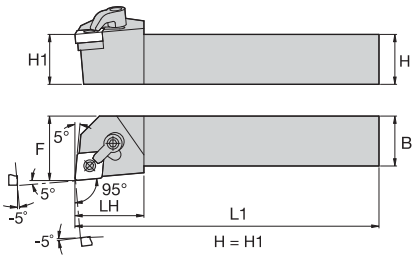




MCKN 15°

order number	catalog number	H	B	F	L1	LH	L1A	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096132	**MCKNR124B**	.75	.75	1.000	4.50	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096133	**MCKNR164C**	1.00	1.00	1.250	5.00	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096134	**MCKNR164D**	1.00	1.00	1.250	6.00	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1339151	**MCKNR165D**	1.00	1.00	1.250	6.00	1.25	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096135	**MCKNR204D**	1.25	1.25	1.500	6.00	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808138	**MCKNR205D**	1.25	1.25	1.500	6.00	1.25	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096136	**MCKNR206D**	1.25	1.25	1.500	6.00	1.47	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808139	**MCKNR245D**	1.50	1.50	2.000	6.00	1.25	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1808140	**MCKNR246D**	1.50	1.50	2.000	6.00	1.47	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand														
1096137	**MCKNL124B**	.75	.75	1.000	4.50	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096138	**MCKNL164C**	1.00	1.00	1.250	5.00	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096139	**MCKNL164D**	1.00	1.00	1.250	6.00	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808134	**MCKNL165D**	1.00	1.00	1.250	6.00	1.25	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096140	**MCKNL204D**	1.25	1.25	1.500	6.00	1.21	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808135	**MCKNL205D**	1.25	1.25	1.500	6.00	1.25	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096141	**MCKNL206D**	1.25	1.25	1.500	6.00	1.47	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1863283	**MCKNL245D**	1.50	1.50	2.000	6.00	1.25	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1843886	**MCKNL246D**	1.50	1.50	2.000	6.00	1.47	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32





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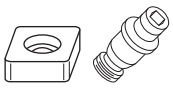
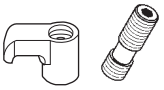


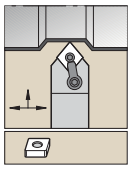


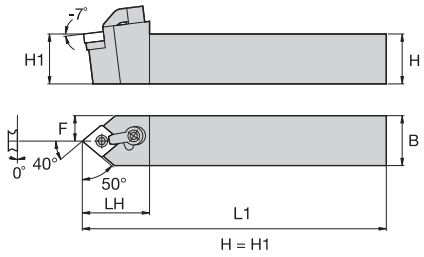
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096086	**MCLNR083A**	.50	.50	.750	4.00	1.00	CN..322	**–**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096087	**MCLNR103A**	.63	.63	.875	4.00	1.00	CN..322	**–**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096066	**MCLNR123B**	.75	.75	1.000	4.50	1.00	CN..322	**ICSN332**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1808149	**MCLNR124A**	.75	.75	1.000	4.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096067	**MCLNR124B**	.75	.75	1.000	4.50	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096068	**MCLNR163C**	1.00	1.00	1.250	5.00	1.00	CN..322	**ICSN332**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096069	**MCLNR163D**	1.00	1.00	1.250	6.00	1.00	CN..322	**ICSN332**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1083005	**MCLNR164C**	1.00	1.00	1.250	5.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096070	**MCLNR164D**	1.00	1.00	1.250	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096071	**MCLNR165C**	1.00	1.00	1.250	5.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096072	**MCLNR165D**	1.00	1.00	1.250	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808150	**MCLNR166C**	1.00	1.00	1.250	5.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096073	**MCLNR166D**	1.00	1.00	1.250	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096075	**MCLNR204D**	1.25	1.25	1.500	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096076	**MCLNR205D**	1.25	1.25	1.500	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096077	**MCLNR206D**	1.25	1.25	1.500	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096079	**MCLNR244D**	1.50	1.50	2.000	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808151	**MCLNR245D**	1.50	1.50	2.000	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096080	**MCLNR245E**	1.50	1.50	2.000	7.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096081	**MCLNR246D**	1.50	1.50	2.000	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096082	**MCLNR246E**	1.50	1.50	2.000	7.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808152	**MCLNR248E**	1.50	1.50	2.000	7.00	1.49	CN..866	**ICSN846**	**KL810**	5/32	**CK24**	**STC19**	3/16
1808153	**MCLNR326F**	2.00	2.00	2.500	8.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096083	**MCLNR854D**	1.25	1.00	1.250	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096084	**MCLNR856D**	1.25	1.00	1.250	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096085	**MCLNR866E**	1.50	1.00	1.250	7.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand													
1096108	**MCLNL083A**	.50	.50	.750	4.00	1.00	CN..322	**–**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096109	**MCLNL103A**	.63	.63	.875	4.00	1.00	CN..322	**–**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096088	**MCLNL123B**	.75	.75	1.000	4.50	1.00	CN..322	**ICSN332**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1808143	**MCLNL124A**	.75	.75	1.000	4.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096089	**MCLNL124B**	.75	.75	1.000	4.50	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1016432	**MCLNL164C**	1.00	1.00	1.250	5.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096092	**MCLNL164D**	1.00	1.00	1.250	6.00	1.20	CNMA432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096093	**MCLNL165C**	1.00	1.00	1.250	5.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096094	**MCLNL165D**	1.00	1.00	1.250	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808144	**MCLNL166C**	1.00	1.00	1.250	5.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096095	**MCLNL166D**	1.00	1.00	1.250	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096097	**MCLNL204D**	1.25	1.25	1.500	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8

(continued)

(MCLN -5° — continued)

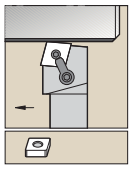
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096101	**MCLNL244D**	1.50	1.50	2.000	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808145	**MCLNL245D**	1.50	1.50	2.000	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096102	**MCLNL245E**	1.50	1.50	2.000	7.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096103	**MCLNL246D**	1.50	1.50	2.000	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096104	**MCLNL246E**	1.50	1.50	2.000	7.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808146	**MCLNL248E**	1.50	1.50	2.000	7.00	1.49	CN..866	**ICSN846**	**KL810**	5/32	**CK24**	**STC19**	3/16
1808147	**MCLNL326F**	2.00	2.00	2.500	8.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096105	**MCLNL854D**	1.25	1.00	1.250	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096107	**MCLNL866E**	1.50	1.00	1.250	7.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

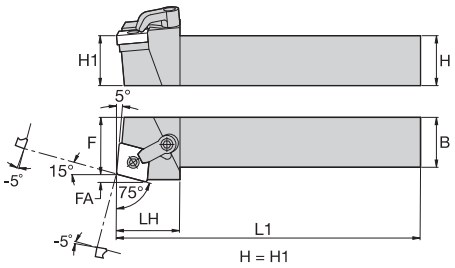


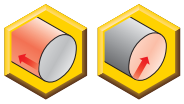


MCMN 40°

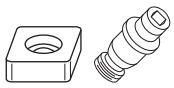
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096142	**MCMNN124B**	.75	.75	.375	4.50	1.39	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096143	**MCMNN164C**	1.00	1.00	.500	5.00	1.39	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096144	**MCMNN164D**	1.00	1.00	.500	6.00	1.39	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096146	**MCMNN204D**	1.25	1.25	.625	6.00	1.39	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096145	**MCMNN166D**	1.00	1.00	.500	6.00	1.67	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096147	**MCMNN206D**	1.25	1.25	.625	6.00	1.67	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808156	**MCMNN246D**	1.50	1.50	.750	6.00	1.67	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808157	**MCMNN246E**	1.50	1.50	.750	7.00	1.67	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

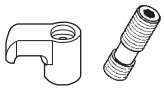




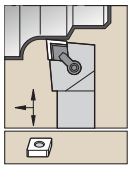


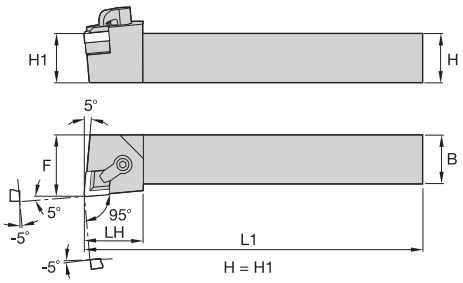
MCRN 15°





order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096116	**MCRNR124B**	.75	.75	.751	4.50	1.24	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096117	**MCRNR164C**	1.00	1.00	1.251	5.00	1.24	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096118	**MCRNR164D**	1.00	1.00	1.251	6.00	1.24	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096119	**MCRNR165D**	1.00	1.00	1.251	6.00	1.34	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096120	**MCRNR166D**	1.00	1.00	1.251	6.00	1.49	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096121	**MCRNR204D**	1.25	1.25	1.500	6.00	1.24	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808163	**MCRNR205D**	1.25	1.25	1.501	6.00	1.34	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096122	**MCRNR206D**	1.25	1.25	1.501	6.00	1.49	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808165	**MCRNR246D**	1.50	1.50	2.001	6.00	1.49	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096123	**MCRNR246E**	1.50	1.50	2.001	7.00	1.49	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand														
1096124	**MCRNL124B**	.75	.75	.751	4.50	1.24	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096125	**MCRNL164C**	1.00	1.00	1.251	5.00	1.24	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096126	**MCRNL164D**	1.00	1.00	1.251	6.00	1.24	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096127	**MCRNL165D**	1.00	1.00	1.251	6.00	1.34	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096128	**MCRNL166D**	1.00	1.00	1.251	6.00	1.49	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096129	**MCRNL204D**	1.25	1.25	1.500	6.00	1.24	.12	CN..432	**ICSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808160	**MCRNL205D**	1.25	1.25	1.501	6.00	1.34	.15	CN..543	**ICSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096130	**MCRNL206D**	1.25	1.25	1.501	6.00	1.49	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808162	**MCRNL246D**	1.50	1.50	2.001	6.00	1.49	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096131	**MCRNL246E**	1.50	1.50	2.001	7.00	1.49	.18	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

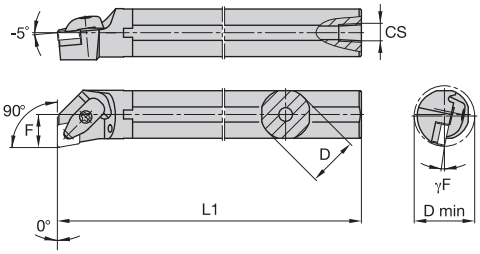




MCLN-C -5°

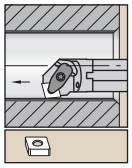
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096643	**MCLNRC164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN442**	**KL46L**	3/32	**CK21**	**STC20**	1/8

Steel shank with through coolant.

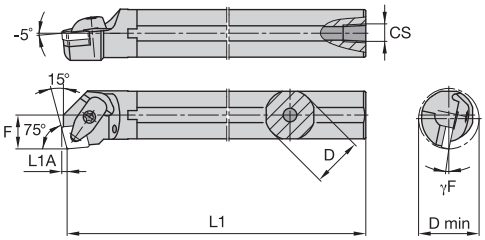


A-DCFN-KC 0°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand														
2408503	**A16TDCFNR4KC3**	1.000	1.200	.640	12.00	1/4-18 NPT	-12.0	CN..432	—	—	—	**CM234RLP ASSY**	**SSP025016M**	15 IP
2408505	**A24UDCFNR4KC3**	1.500	1.760	.890	14.00	1/4-18 NPT	-10.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP

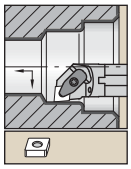


Steel shank with through coolant.

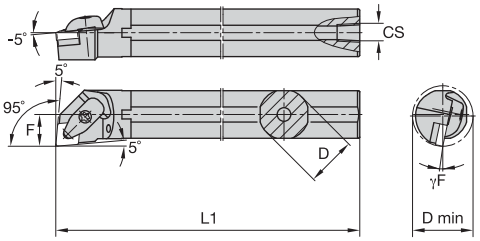


A-DCKN-KC 15°

order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
left hand															
2408487	**A32VDCKNL4KC3**	2.000	2.400	1.281	16.00	—	1/4-18 NPT	-8.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408488	**A32VDCKNL5KC4**	2.000	2.400	1.281	16.00	.15	1/4-18 NPT	-10.0	CN..543	**ICSN533**	**KMSP515IP**	15 IP	**CM209R ASSY**	**SSP025018M**	15 IP

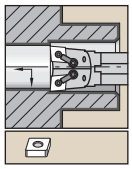


Steel shank with through coolant.

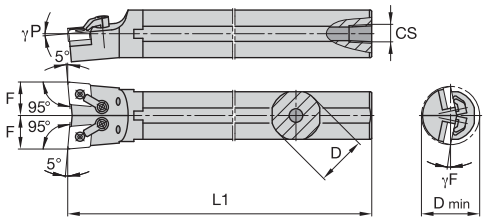


A-DCLN-KC -5°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand														
2408517	**A16TDCLNR3KC2**	1.000	1.200	.640	12.00	1/4-18 NPT	-10.0	CN..322	**–**	**–**	–	**CM234RLP ASSY**	**SSP025016M**	15 IP
2408518	**A16TDCLNR4KC3**	1.000	1.200	.640	12.00	1/4-18 NPT	-12.0	CN..432	**–**	**–**	–	**CM234RLP ASSY**	**SSP025016M**	15 IP
2408519	**A20UDCLNR4KC3**	1.250	1.470	.765	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP4S15IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408520	**A24UDCLNR4KC3**	1.500	1.760	.890	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408521	**A24UDCLNR5KC4**	1.500	1.760	.890	14.00	1/4-18 NPT	-14.0	CN..543	**ICSN533**	**KMSP5S15IP**	15 IP	**CM209R ASSY**	**SSP025018M**	15 IP
2408522	**A28UDCLNR4KC3**	1.750	2.010	1.015	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408523	**A32VDCLNR4KC3**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408524	**A32VDCLNR5KC4**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..543	**ICSN533**	**KMSP515IP**	15 IP	**CM209R ASSY**	**SSP025018M**	15 IP
2408526	**A40VDCLNR4KC3**	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408527	**A40VDCLNR6KC4**	2.500	3.030	1.531	16.00	1/4-18 NPT	-10.0	CN..643	**ICSN633**	**KMSP625IP**	25 IP	**CM210R ASSY**	**SSP025018M**	25 IP
left hand														
2408507	**A16TDCLNL4KC3**	1.000	1.200	.640	12.00	1/4-18 NPT	-12.0	CN..432	**–**	**–**	–	**CM234RLP ASSY**	**SSP025016M**	15 IP
2408508	**A20UDCLNL4KC3**	1.250	1.470	.765	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP4S15IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408509	**A24UDCLNL4KC3**	1.500	1.760	.890	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408511	**A28UDCLNL4KC3**	1.750	2.010	1.015	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408512	**A32VDCLNL4KC3**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408514	**A32VDCLNL6KC4**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..643	**ICSN633**	**KMSP625IP**	25 IP	**CM210R ASSY**	**SSP025018M**	25 IP
2408515	**A40VDCLNL4KC3**	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CN..432	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408516	**A40VDCLNL6KC4**	2.500	3.030	1.531	16.00	1/4-18 NPT	-10.0	CN..643	**ICSN633**	**KMSP625IP**	25 IP	**CM210R ASSY**	**SSP025018M**	25 IP



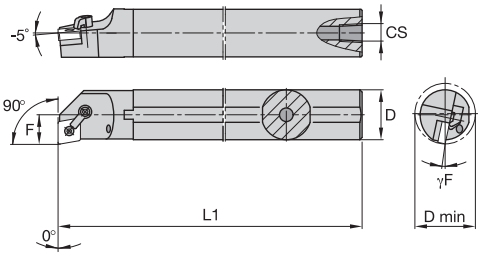
Steel shank with through coolant.



A-MCLN-D -5°

order number	catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1096369	**A16MCLNR4D**	1.000	1.625	.640	12.00	1/4-18 NPT	-10.0	-5.0	CN..432	**—**	**KL44**	—	**CK7**	**STC9**	3/32
1096370	**A20MCLNR4D**	1.250	1.875	.765	14.00	1/4-18 NPT	-10.0	-5.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096371	**A24MCLNR4D**	1.500	2.125	.890	14.00	1/4-18 NPT	-10.0	-5.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096372	**A32MCLNR4D**	2.000	2.592	1.281	16.00	1/4-18 NPT	-12.0	-5.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096373	**A32MCLNR5D**	2.000	2.592	1.281	16.00	1/4-18 NPT	-12.0	-5.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32

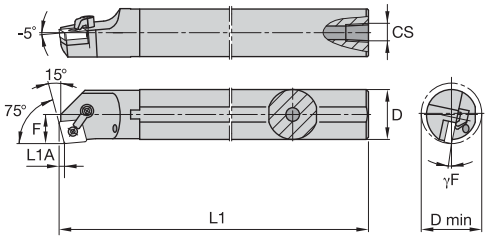
Steel shank with through coolant.



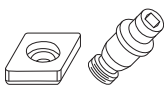
A-MCFN 0°

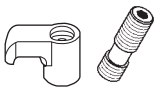
order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1808110	**A16MCFNR4**	1.000	1.200	.640	12.00	1/4-18 NPT	-14.0	CN..432	**—**	**KL44**	—	**CK7**	**STC9**	3/32
1808112	**A20MCFNR4**	1.250	1.470	.765	14.00	1/4-18 NPT	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
1808206	**A24MCFNR4**	1.500	1.760	.890	14.00	1/4-18 NPT	-10.0	CN..432	**ICSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
left hand														
1808109	**A16TMCFNL4**	1.000	1.200	.640	12.00	1/4-18 NPT	-14.0	CN..432	**—**	**KL44**	—	**CK7**	**STC9**	3/32
1808205	**A24MCFNL4**	1.500	1.760	.890	14.00	1/4-18 NPT	-10.0	CN..432	**ICSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8

Steel shank with through coolant.

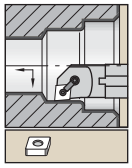


A-MCKN 15°

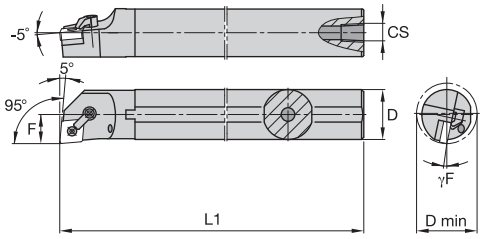




order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1096440	**A20MCKNR4**	1.250	1.470	.765	14.00	.12	1/4-18 NPT	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096441	**A24UMCKNR4**	1.500	1.770	.885	14.00	.12	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808212	**A32MCKNR4**	2.000	2.400	1.281	16.00	.12	1/4-18 NPT	-8.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
left hand															
1096442	**A20MCKNL4**	1.250	1.470	.765	14.00	.12	1/4-18 NPT	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096443	**A24MCKNL4**	1.500	1.760	.890	14.00	.12	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8

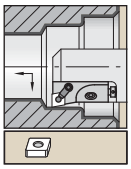


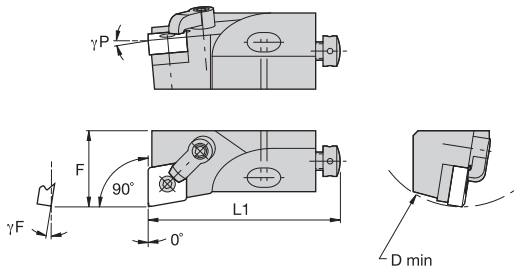
Steel shank with through coolant.



A-MCLN -5°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096415	**A16MCLNR3**	1.000	1.200	.640	12.00	1/4-18 NPT	-10.0	CN..322	**—**	**KL33**	5/64	**CK6**	**STC5**	3/32
1016456	**A16TMCLNR4**	1.000	1.200	.640	12.00	1/4-18 NPT	-14.0	CN..432	**—**	**KL44**	3/32	**CK20**	**STC11**	1/8
1096418	**A20UMCLNR4**	1.250	1.470	.765	14.00	1/4-18 NPT	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096422	**A24MCLNR5**	1.500	2.000	.890	14.00	1/4-18 NPT	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096419	**A24UMCLNR4**	1.500	1.760	.890	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096420	**A28UMCLNR4**	1.750	2.010	1.015	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096423	**A32MCLNR5**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096421	**A32VMCLNR4**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096424	**A32VMCLNR6**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096367	**A40VMCLNR4**	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CNMA432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808228	**A40VMCLNR5**	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096426	**A40VMCLNR6**	2.500	3.030	1.531	16.00	1/4-18 NPT	-10.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand														
1096427	**A16MCLNL3**	1.000	1.200	.640	12.00	1/4-18 NPT	-10.0	CN..322	**—**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096430	**A16TMCLNL4**	1.000	1.200	.640	12.00	1/4-18 NPT	-14.0	CN..432	**—**	**KL44**	3/32	**CK20**	**STC11**	1/8
1096431	**A20UMCLNL4**	1.250	1.470	.765	14.00	1/4-18 NPT	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096435	**A24MCLNL5**	1.500	2.000	.890	14.00	1/4-18 NPT	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096432	**A24UMCLNL4**	1.500	1.760	.890	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096433	**A28UMCLNL4**	1.750	2.010	1.015	14.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096436	**A32MCLNL5**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096434	**A32VMCLNL4**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096437	**A32VMCLNL6**	2.000	2.400	1.281	16.00	1/4-18 NPT	-12.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096368	**A40MCLNL4**	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808227	**A40VMCLNL5**	2.500	3.030	1.531	16.00	1/4-18 NPT	-8.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32

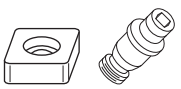
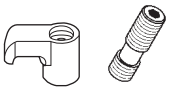




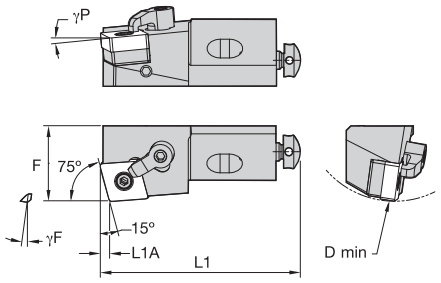
MCFN 0°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
3331146	**MCFNR10CA3**	1.575	.551	1.97	-9.0	-9.0	CN..090308/CN..322
3346236	**MCFNR12CA4**	1.969	.787	2.17	-9.0	-5.0	CN..120408/CN..432
2074433	**MCFNR16CA4**	2.362	.984	2.48	-9.0	-5.0	CN..120408/CN..432
3330195	**MCFNR20CA4**	2.756	.984	2.76	-9.0	-5.0	CN..120408\CN..432
left hand							
3331145	**MCFNL10CA3**	1.575	.551	1.97	-9.0	-9.0	CN..090308/CN..322
1906272	**MCFNL12CA4**	1.969	.787	2.17	-9.0	-5.0	CN..120408/CN..432

Spare Parts

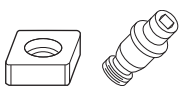
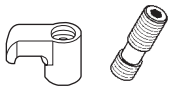
D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	–	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	–	4 mm	**CSWM 060 050**
1.969	–	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**
2.362	**ICSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	–	**191.407**	5 mm	**CSWM 080 050**
2.756	**ICSN432**	**KLM46**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	–	**191.407**	5 mm	**CSWM 080 050**

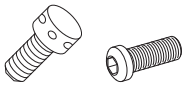


MCKN 15°

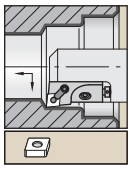
order number	catalog number	D min	F	L1	L1A	γF°	γP°	gage insert
right hand								
3346238	**MCKNR12CA4**	1.969	.787	2.17	.12	-9.0	-5.0	CN..120408/CN..432
3330222	**MCKNR16CA4**	2.362	.984	2.48	.12	-9.0	-5.0	CN..120408/CN..432
left hand								
3346237	**MCKNL12CA4**	1.969	.787	2.17	.12	-9.0	-5.0	CN..120408/CN..432

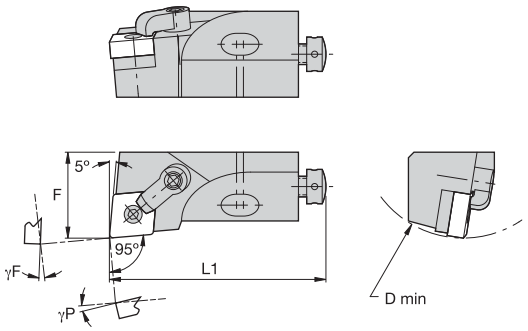
Spare Parts



D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**ICSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**



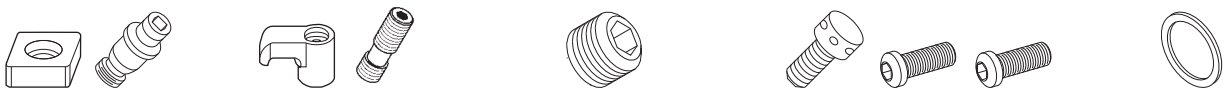


MCLN -5°

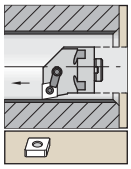
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1100493	**MCLNR12CA4**	1.969	.787	2.17	-9.0	-5.0	CN..120408/CN..432
1282100	**MCLNR16CA4**	2.362	.984	2.48	-9.0	-5.0	CN..120408/CN..432
3330197	**MCLNR20CA4**	2.756	.984	2.76	-9.0	-5.0	CN..120408/CN..432
3332803	**MCLNR25CA4**	3.937	1.260	3.94	-9.0	-5.0	CN..120408/CN..432
3332804	**MCLNR25CA5**	3.937	1.260	3.94	-9.0	-5.0	CN..160612/CN..543
3332805	**MCLNR25CA6**	3.937	1.260	3.94	-9.0	-5.0	CN..190612/CN..643
left hand							
2077947	**MCLNL12CA4**	1.969	.787	2.17	-9.0	-5.0	CN..120408/CN..432
3330273	**MCLNL16CA4**	2.362	.984	2.48	-9.0	-5.0	CN..120408/CN..432
3330196	**MCLNL20CA4**	2.756	.984	2.76	-9.0	-5.0	CN..120408/CN..432
3332362	**MCLNL25CA6**	3.937	1.260	3.94	-9.0	-5.0	CN..190612/CN..643

NOTE: Select spare parts based off of D min and insert size selected.

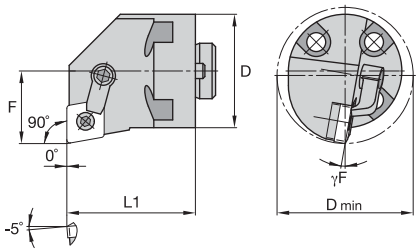
Spare Parts



D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.969	—	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	—	4 mm	**CSWM 060 050**
2.362	**ICSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	—	5 mm	**CSWM 080 050**
2.756	**ICSN432**	**KLM46**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	—	5 mm	**CSWM 080 050**
3.937	**ICSN432**	**KLM46**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	—	**MS364**	8 mm	**CSWM 100 080**
3.937	**ICSN533**	**KLM58**	3 mm	**CKM41**	**STCM20**	3 mm	**KUAM26**	3 mm	**KUAM32**	—	**MS364**	8 mm	**CSWM 100 080**
3.937	**ICSN633**	**KLM68**	4 mm	**CKM35**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM32**	—	**MS364**	8 mm	**CSWM 100 080**

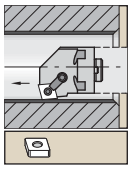


With through coolant.

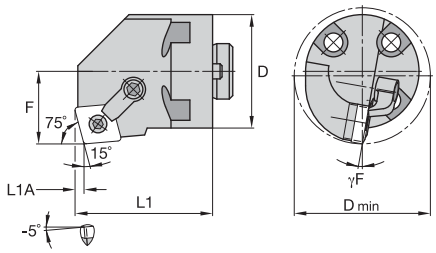


H-MCFN 0°

order number	catalog number	D	D min	F	L1	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1808097	**H20MCFNR4**	1.250	1.470	.765	1.63	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808100	**H24MCFNR4**	1.500	1.760	.890	1.63	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808102	**H32MCFNR5**	2.000	2.400	1.281	1.63	-10.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808531	**H40MCFNR6**	2.500	3.030	1.531	1.63	-10.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

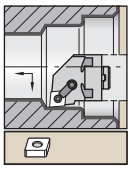


With through coolant.

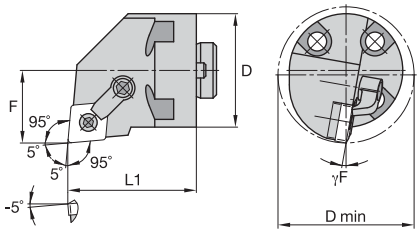


H-MCKN 15°

order number	catalog number	D	D min	F	L1	L1A	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1095369	**H24MCKNR4**	1.500	1.760	.890	1.63	.12	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095464	**H32MCKNR4**	2.000	2.400	1.281	1.63	.12	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095540	**H40MCKNR5**	2.500	3.030	1.531	1.63	.15	-10.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095291	**H40MCKNR6**	2.500	3.030	1.531	1.63	.18	-10.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand														
1095541	**H40MCKNL5**	2.500	3.030	1.531	1.63	.15	-10.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32



With through coolant.

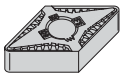


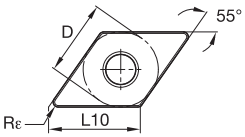
H-MCLN -5°

order number	catalog number	D	D min	F	L1	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1095308	**H16MCLNR4**	1.000	1.200	.640	1.63	-14.0	CN..432	**–**	**KL44**	3/32	**CK7**	**STC9**	3/32
1095325	**H20MCLNR4**	1.250	1.470	.765	1.63	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095377	**H24MCLNR4**	1.500	1.760	.890	1.63	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095379	**H24MCLNR5**	1.500	1.760	.890	1.63	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095429	**H28MCLNR4**	1.750	2.010	1.015	1.63	-10.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095469	**H32MCLNR4**	2.000	2.400	1.281	1.63	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095474	**H32MCLNR5**	2.000	2.400	1.281	1.63	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095476	**H32MCLNR6**	2.000	2.400	1.281	1.63	-12.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
2384973	**H40MCLNR4**	2.500	3.030	1.531	1.63	-8.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095548	**H40MCLNR5**	2.500	3.030	1.531	1.63	-8.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095550	**H40MCLNR6**	2.500	3.030	1.531	1.63	-10.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand													
1095309	**H16MCLNL4**	1.000	1.200	.640	1.63	-14.0	CN..432	**–**	**KL44**	3/32	**CK7**	**STC9**	3/32
1095326	**H20MCLNL4**	1.250	1.470	.765	1.63	-14.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095378	**H24MCLNL4**	1.500	1.760	.890	1.63	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095380	**H24MCLNL5**	1.500	1.760	.890	1.63	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095430	**H28MCLNL4**	1.750	2.010	1.015	1.63	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095472	**H32MCLNL4**	2.000	2.400	1.281	1.63	-12.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095475	**H32MCLNL5**	2.000	2.400	1.281	1.63	-12.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095477	**H32MCLNL6**	2.000	2.400	1.281	1.63	-12.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
2384961	**H40MCLNL4**	2.500	3.030	1.531	1.63	-8.0	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095549	**H40MCLNL5**	2.500	3.030	1.531	1.63	-8.0	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1095551	**H40MCLNL6**	2.500	3.030	1.531	1.63	-10.0	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

● first choice
○ alternate choice

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

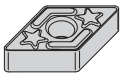


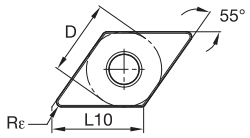


DNGG-FS

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNGG110402FS	DNGG3305FS	9,53	3/8	11,63	.458	0,2	.008
DNGG110404FS	DNGG331FS	9,53	3/8	11,63	.458	0,4	1/64
DNGG110408FS	DNGG332FS	9,53	3/8	11,63	.458	0,8	1/32
DNGG150401FS	DNGG430FS	12,70	1/2	15,50	.610	0,1	.004
DNGG150402FS	DNGG4305FS	12,70	1/2	15,50	.610	0,2	.008
DNGG150404FS	DNGG431FS	12,70	1/2	15,50	.610	0,4	1/64
DNGG150604FS	DNGG441FS	12,70	1/2	15,50	.610	0,4	1/64
DNGG150408FS	DNGG432FS	12,70	1/2	15,50	.610	0,8	1/32
DNGG150608FS	DNGG442FS	12,70	1/2	15,50	.610	0,8	1/32
DNGG150412FS	DNGG433FS	12,70	1/2	15,50	.610	1,2	3/64

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNGG110402FS	DNGG3305FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG110404FS	DNGG331FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG110408FS	DNGG332FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150401FS	DNGG430FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150402FS	DNGG4305FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG150404FS	DNGG431FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–
DNGG150604FS	DNGG441FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150408FS	DNGG432FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
DNGG150608FS	DNGG442FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150412FS	DNGG433FS	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

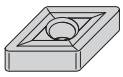


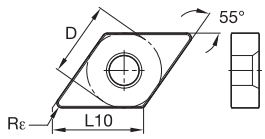


DNGG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNGG150402LF	DNGG4305LF	12,70	1/2	15,50	.610	0,2	.008
DNGG150404LF	DNGG431LF	12,70	1/2	15,50	.610	0,4	1/64
DNGG150408LF	DNGG432LF	12,70	1/2	15,50	.610	0,8	1/32

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNGG150402LF	DNGG4305LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG150404LF	DNGG431LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG150408LF	DNGG432LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–



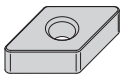


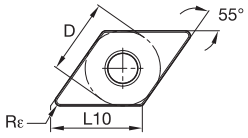
DNGP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNGP150401	DNGP430	12,70	1/2	15,50	.610	0,1	.004
DNGP150402	DNGP4305	12,70	1/2	15,50	.610	0,2	.008
DNGP150404	DNGP431	12,70	1/2	15,50	.610	0,4	1/64
DNGP150604	DNGP441	12,70	1/2	15,50	.610	0,4	1/64
DNGP150408	DNGP432	12,70	1/2	15,50	.610	0,8	1/32
DNGP150608	DNGP442	12,70	1/2	15,50	.610	0,8	1/32

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNGP150401	DNGP430	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
DNGP150402	DNGP4305	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
DNGP150404	DNGP431	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–
DNGP150604	DNGP441	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	●	–
DNGP150408	DNGP432	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–
DNGP150608	DNGP442	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–

● first choice
○ alternate choice

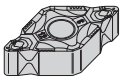


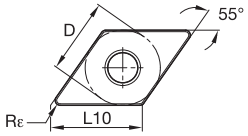


DNMA

| | | |

● first choice
○ alternate choice

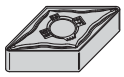


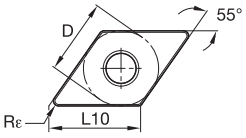


DNMG-CT

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

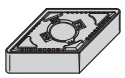
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DNMG110412CT	DNMG333CT	9,53	3/8	11,62	.458	1,2	3/64
DNMG110408CT	DNMG332CT	9,53	3/8	11,63	.458	0,8	1/32
DNMG150604CT	DNMG441CT	12,70	1/2	15,50	.610	0,3	.013
DNMG150404CT	DNMG431CT	12,70	1/2	15,50	.610	0,4	1/64
DNMG150408CT	DNMG432CT	12,70	1/2	15,50	.610	0,8	1/32
DNMG150608CT	DNMG442CT	12,70	1/2	15,50	.610	0,8	1/32
DNMG150412CT	DNMG433CT	12,70	1/2	15,50	.610	1,2	3/64
DNMG150612CT	DNMG443CT	12,70	1/2	15,50	.610	1,2	3/64

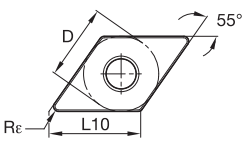




DNMG-FF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FF	DNMG331FF	9,53	3/8	11,63	.458	0,4	1/64	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG110408FF	DNMG332FF	9,53	3/8	11,63	.458	0,8	1/32	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
DNMG150404FF	DNMG431FF	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150604FF	DNMG441FF	12,70	1/2	15,50	.610	0,4	1/64	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150408FF	DNMG432FF	12,70	1/2	15,50	.610	0,8	1/32	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150608FF	DNMG442FF	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●

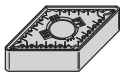


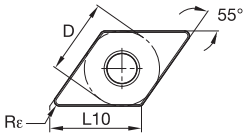


DNMG-FN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FN	DNMG331FN	9,53	3/8	11,63	.458	0,4	1/64	–	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG110408FN	DNMG332FN	9,53	3/8	11,63	.458	0,8	1/32	–	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG110412FN	DNMG333FN	9,53	3/8	11,63	.458	1,2	3/64	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404FN	DNMG431FN	12,70	1/2	15,50	.610	0,4	1/64	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150604FN	DNMG441FN	12,70	1/2	15,50	.610	0,4	1/64	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150408FN	DNMG432FN	12,70	1/2	15,50	.610	0,8	1/32	–	●	●	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
DNMG150608FN	DNMG442FN	12,70	1/2	15,50	.610	0,8	1/32	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150412FN	DNMG433FN	12,70	1/2	15,50	.610	1,2	3/64	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150612FN	DNMG443FN	12,70	1/2	15,50	.610	1,2	3/64	–	●	●	●	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

● first choice
○ alternate choice

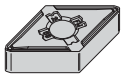


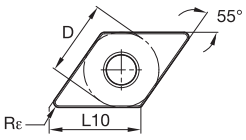


DNMG-FP

	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FP	DNMG331FP	9,53	3/8	11,63	.458	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–	–	●	–	●	–	–	–
DNMG110408FP	DNMG332FP	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–	–	●	–	●	–	–	●
DNMG150404FP	DNMG431FP	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150604FP	DNMG441FP	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150408FP	DNMG432FP	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150608FP	DNMG442FP	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150412FP	DNMG433FP	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNMG150612FP	DNMG443FP	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●

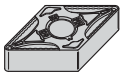


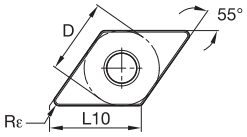


DNMG-FW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FW	DNMG331FW	9,53	3/8	11,63	.458	0,4	1/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	●
DNMG110408FW	DNMG332FW	9,53	3/8	11,63	.458	0,8	1/32	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150404FW	DNMG431FW	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150408FW	DNMG432FW	12,70	1/2	15,50	.610	0,4	.016	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
DNMG150604FW	DNMG441FW	12,70	1/2	15,50	.610	0,4	1/64	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNMG150608FW	DNMG442FW	12,70	1/2	15,50	.610	0,4	.016	–	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

● first choice
○ alternate choice

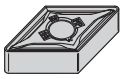


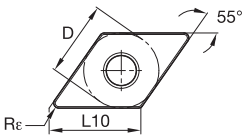


DNMG-MN

P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
		mm	in	mm	in	mm	in																														
DNMG110404MN	DNMG331MN	9,53	3/8	11,63	.458	0,4	1/64	–	●	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110408MN	DNMG332MN	9,53	3/8	11,63	.458	0,8	1/32	–	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110412MN	DNMG333MN	9,53	3/8	11,63	.458	1,2	3/64	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404MN	DNMG431MN	12,70	1/2	15,50	.610	0,4	1/64	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150604MN	DNMG441MN	12,70	1/2	15,50	.610	0,4	1/64	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408MN	DNMG432MN	12,70	1/2	15,50	.610	0,8	1/32	●	–	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DNMG150608MN	DNMG442MN	12,70	1/2	15,50	.610	0,8	1/32	●	–	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412MN	DNMG433MN	12,70	1/2	15,50	.610	1,2	3/64	–	●	●	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150612MN	DNMG443MN	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616MN	DNMG444MN	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG190612MN	DNMG543MN	15,88	5/8	19,38	.763	1,2	3/64	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



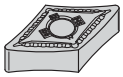


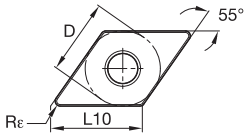
DNMG-MP

P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●	
S																								●	●	●	●	●	●		
H																															

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
		mm	in	mm	in	mm	in																														
DNMG110408MP	DNMG332MP	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	●	–	●	–	–	–
DNMG110412MP	DNMG333MP	9,53	3/8	11,63	.458	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
DNMG150404MP	DNMG431MP	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	●	–	●	–	–	–
DNMG150604MP	DNMG441MP	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	●	–	●	–	–	–
DNMG150408MP	DNMG432MP	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	●	–	●	–	–	–
DNMG150608MP	DNMG442MP	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	●	●	●	–	–	–
DNMG150412MP	DNMG433MP	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–	●	–	–	–
DNMG150612MP	DNMG443MP	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	●	–	–	–

● first choice
○ alternate choice

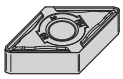


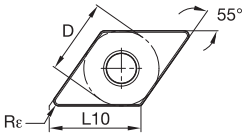


DNMG-MS

P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●								●	●	●	●	●	●	●		●
N																								●	●	●	●	●	●	●		
S																								●	●	●	●	●	●			
H																																

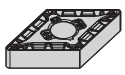
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408MS	DNMG332MS	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
DNMG150401MS	DNMG430MS	12,70	1/2	15,50	.610	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNMG150402MS	DNMG4305MS	12,70	1/2	15,50	.610	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
DNMG150404MS	DNMG431MS	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
DNMG150604MS	DNMG441MS	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
DNMG150408MS	DNMG432MS	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
DNMG150608MS	DNMG442MS	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
DNMG150412MS	DNMG433MS	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
DNMG150612MS	DNMG443MS	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–

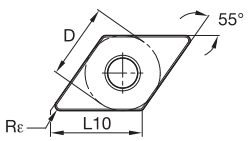




DNMG-MW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG150408MW	DNMG432MW	12,70	1/2	15,50	.610	0,4	.016	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150608MW	DNMG442MW	12,70	1/2	15,50	.610	0,4	.016	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150412MW	DNMG433MW	12,70	1/2	15,50	.610	0,8	.032	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150612MW	DNMG443MW	12,70	1/2	15,50	.610	0,8	.032	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



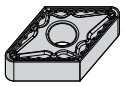


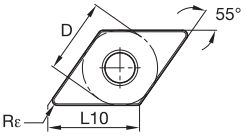
DNMG-MR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408MR	DNMG332MR	9,53	3/8	11,63	.458	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408MR	DNMG432MR	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●	–	–	●	–	–	–	–	–	–
DNMG150608MR	DNMG442MR	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
DNMG150412MR	DNMG433MR	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–
DNMG150612MR	DNMG443MR	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616MR	DNMG444MR	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

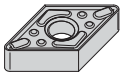
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

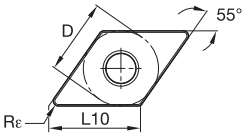




DNMG-MG

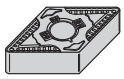
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG150612MG	DNMG443MG	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616MG	DNMG444MG	12,70	1/2	15,50	.610	1,6	1/16	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

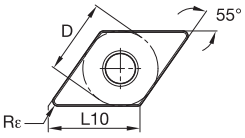




DNMG-P

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG150404P	DNMG431P	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150408P	DNMG432P	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150608P	DNMG442P	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

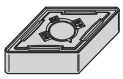


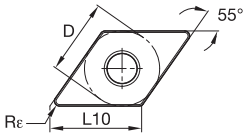


DNMG-RN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG150408RN	DNMG432RN	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150608RN	DNMG442RN	12,70	1/2	15,50	.610	0,8	1/32	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412RN	DNMG433RN	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150612RN	DNMG443RN	12,70	1/2	15,50	.610	1,2	3/64	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150416RN	DNMG434RN	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616RN	DNMG444RN	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG190608RN	DNMG542RN	15,88	5/8	19,38	.763	0,8	1/32	–	–	●	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG190612RN	DNMG543RN	15,88	5/8	19,38	.763	1,2	3/64	–	–	●	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

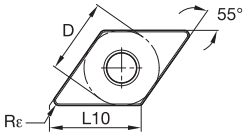
● first choice
○ alternate choice





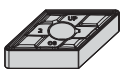
DNMG-RP

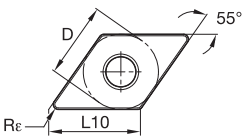
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408RP	DNMG332RP	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	●	●	●	–	–	–
DNMG110412RP	DNMG333RP	9,53	3/8	11,63	.458	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408RP	DNMG432RP	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	●	●	●	–	–	–	–	–	●	–	–	●	●	–	●	●	●	–	●	–	–	–	●	●	●	●	–	–	–
DNMG150608RP	DNMG442RP	12,70	1/2	15,50	.610	0,8	1/32	–	●	●	●	●	●	–	●	–	–	–	–	●	–	–	●	–	●	●	●	–	–	–	–	–	●	●	●	●	–	–	–
DNMG150412RP	DNMG433RP	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	–	–	–	–
DNMG150612RP	DNMG443RP	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	●	●	●	–	–	–	–	–	●	–	●	●	●	–	–	–	●	●	–	–	–	–	●	●	–	–	–	–	–
DNMG150416RP	DNMG434RP	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
DNMG150616RP	DNMG444RP	12,70	1/2	15,50	.610	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–



DNMG-UN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408UN	DNMG332UN	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110412UN	DNMG333UN	9,53	3/8	11,63	.458	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408UN	DNMG432UN	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150608UN	DNMG442UN	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412UN	DNMG433UN	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150612UN	DNMG443UN	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150416UN	DNMG434UN	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616UN	DNMG444UN	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



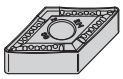


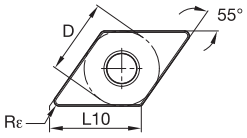
DNMG-UP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408UP	DNMG332UP	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
DNMG150404UP	DNMG431UP	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–
DNMG150604UP	DNMG441UP	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
DNMG150408UP	DNMG432UP	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	●	–	●	–	–	–	–
DNMG150608UP	DNMG442UP	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	●	–	–	–	–

● first choice
○ alternate choice

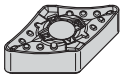
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

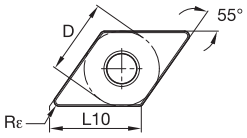




DNMM-RM

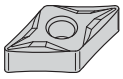
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMM150408RM	DNMM432RM	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150608RM	DNMM442RM	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150412RM	DNMM433RM	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150612RM	DNMM443RM	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150616RM	DNMM444RM	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

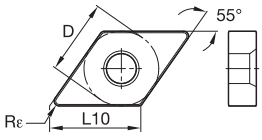




DNMM-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMM150608RP	DNMM442RP	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150612RP	DNMM443RP	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150616RP	DNMM444RP	12,70	1/2	15,50	.610	1,6	1/16	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

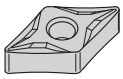


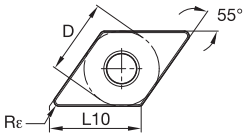


DNMP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMP150404	DNMP431	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DNMP150408	DNMP432	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DNMP150412	DNMP433	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

● first choice
○ alternate choice

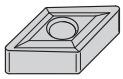


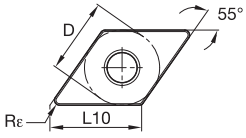


DNMP-K

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

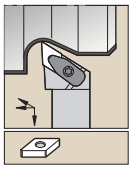
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in																											
DNMP110408K	**DNMP332K**	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150404K	**DNMP431K**	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150604K	**DNMP441K**	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150408K	**DNMP432K**	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150608K	**DNMP442K**	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150412K	**DNMP433K**	12,70	1/2	15,50	.610	1,2	3/64	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

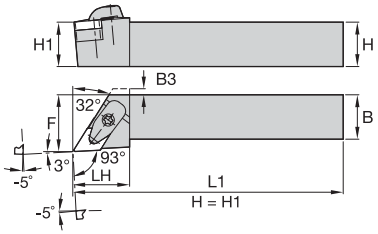




DNMS

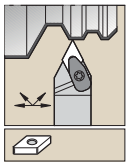
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMS150408	**DNMS432**	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–

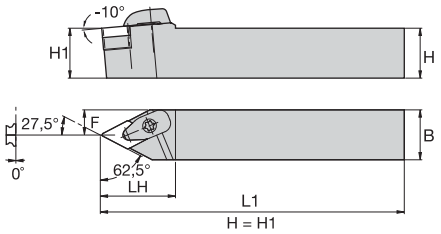


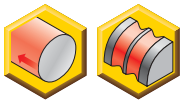


DDJN-KC -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
2273014	**DDJNR123BKC3**	.75	.75	1.000	4.50	1.25	.06	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273065	**DDJNR163CKC3**	1.00	1.00	1.250	5.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273016	**DDJNR163DKC3**	1.00	1.00	1.250	6.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273018	**DDJNR203DKC3**	1.25	1.25	1.500	6.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875140	**DDJNR164CKC3**	1.00	1.00	1.250	5.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875136	**DDJNR164DKC3**	1.00	1.00	1.250	6.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875148	**DDJNR204DKC3**	1.25	1.25	1.500	6.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875170	**DDJNR165DKC4**	1.00	1.00	1.250	6.00	1.38	.15	DN..543	**IDSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875178	**DDJNR245DKC4**	1.50	1.50	2.000	6.00	1.38	—	DN..543	**IDSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
left hand														
2273015	**DDJNL123BKC3**	.75	.75	1.000	4.50	1.25	.06	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273066	**DDJNL163CKC3**	1.00	1.00	1.250	5.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273017	**DDJNL163DKC3**	1.00	1.00	1.250	6.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875149	**DDJNL164CKC3**	1.00	1.00	1.250	5.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875139	**DDJNL164DKC3**	1.00	1.00	1.250	6.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875151	**DDJNL204DKC3**	1.25	1.25	1.500	6.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875167	**DDJNL165DKC4**	1.00	1.00	1.250	6.00	1.38	.15	DN..543	**IDSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875177	**DDJNL205DKC4**	1.25	1.25	1.500	6.00	1.38	—	DN..543	**IDSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**

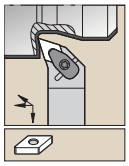


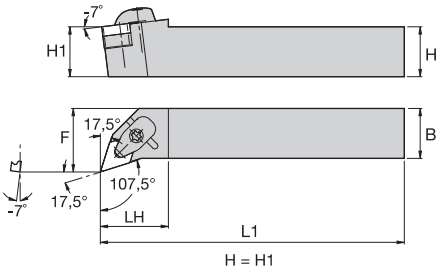


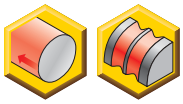


DDPN-KC 27.5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
1875186	**DDPNN164DKC3**	1.00	1.00	.497	6.00	1.62	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

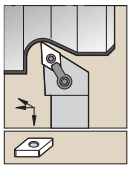


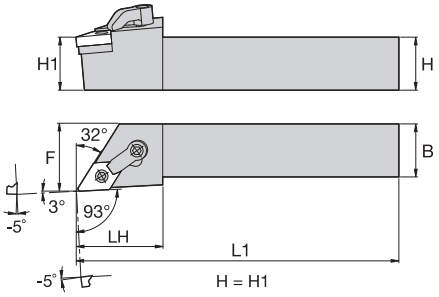


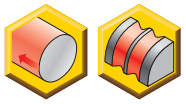


DDQN-KC -17.5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand													
1893421	**DDQNR164CKC3**	1.00	1.00	1.250	5.00	1.38	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273020	**DDQNR164DKC3**	1.00	1.00	1.250	6.00	1.38	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273022	**DDQNR204DKC3**	1.25	1.25	1.500	6.00	1.38	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
left hand													
1893422	**DDQNL164CKC3**	1.00	1.00	1.250	5.00	1.38	DNMA432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273021	**DDQNL164DKC3**	1.00	1.00	1.250	6.00	1.38	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273023	**DDQNL204DKC3**	1.25	1.25	1.500	6.00	1.38	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

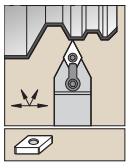


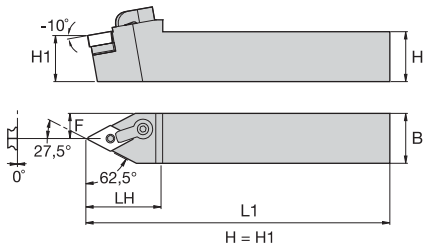


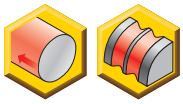


MDJN -3°

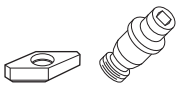
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096240	**MDJNR123B**	.75	.75	1.000	4.50	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096242	**MDJNR163C**	1.00	1.00	1.250	5.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096243	**MDJNR163D**	1.00	1.00	1.250	6.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096247	**MDJNR203D**	1.25	1.25	1.500	6.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1808169	**MDJNR124A**	.75	.75	1.000	4.00	1.38	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096241	**MDJNR124B**	.75	.75	1.000	4.50	1.38	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096244	**MDJNR164C**	1.00	1.00	1.250	5.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096245	**MDJNR164D**	1.00	1.00	1.250	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096251	**MDJNR854D**	1.25	1.00	1.250	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1016454	**MDJNR204D**	1.25	1.25	1.500	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096246	**MDJNR165D**	1.00	1.00	1.250	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096248	**MDJNR205D**	1.25	1.25	1.500	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096250	**MDJNR245D**	1.50	1.50	2.000	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808170	**MDJNR245E**	1.50	1.50	2.000	7.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
left hand													
1096252	**MDJNL123B**	.75	.75	1.000	4.50	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096254	**MDJNL163C**	1.00	1.00	1.250	5.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096255	**MDJNL163D**	1.00	1.00	1.250	6.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096259	**MDJNL203D**	1.25	1.25	1.500	6.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1808167	**MDJNL124A**	.75	.75	1.000	4.00	1.38	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096253	**MDJNL124B**	.75	.75	1.000	4.50	1.38	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096256	**MDJNL164C**	1.00	1.00	1.250	5.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096257	**MDJNL164D**	1.00	1.00	1.250	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096260	**MDJNL204D**	1.25	1.25	1.500	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096261	**MDJNL205D**	1.25	1.25	1.500	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096263	**MDJNL245D**	1.50	1.50	2.000	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808168	**MDJNL245E**	1.50	1.50	2.000	7.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32

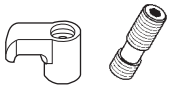




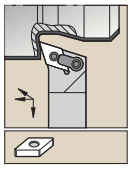


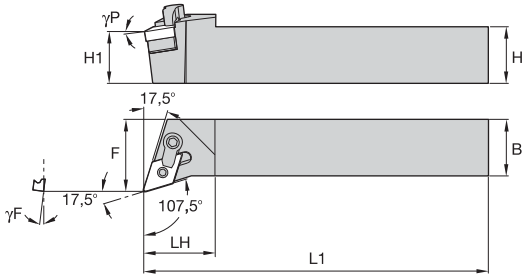
MDPN 27.5°

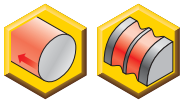




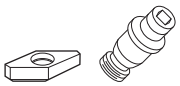
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096277	**MDPNN123B**	.75	.75	.375	4.50	1.50	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096279	**MDPNN163D**	1.00	1.00	.500	6.00	1.50	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096280	**MDPNN164D**	1.00	1.00	.500	6.00	1.63	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096282	**MDPNN205D**	1.25	1.25	.625	6.00	1.92	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096284	**MDPNN245D**	1.50	1.50	.750	6.00	1.92	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32

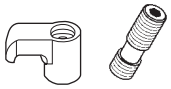




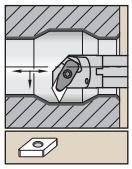


MDQN -17.5°

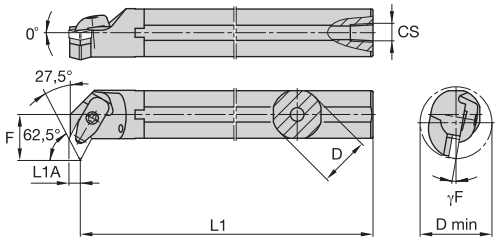




order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096265	**MDQNR124B**	.75	.75	1.000	4.50	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096266	**MDQNR164C**	1.00	1.00	1.250	5.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096267	**MDQNR164D**	1.00	1.00	1.250	6.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096268	**MDQNR204D**	1.25	1.25	1.500	6.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096269	**MDQNR244D**	1.50	1.50	2.000	6.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096270	**MDQNR244E**	1.50	1.50	2.000	7.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
left hand													
1096271	**MDQNL124B**	.75	.75	1.000	4.50	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096272	**MDQNL164C**	1.00	1.00	1.250	5.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096273	**MDQNL164D**	1.00	1.00	1.250	6.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096274	**MDQNL204D**	1.25	1.25	1.500	6.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096275	**MDQNL244D**	1.50	1.50	2.000	6.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096276	**MDQNL244E**	1.50	1.50	2.000	7.00	1.37	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8

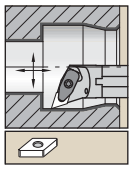


Steel shank with through coolant.

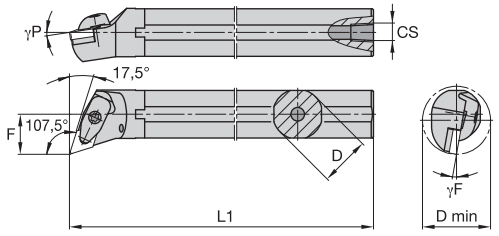


A-DDPN-KC 27.5°

order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand															
2408545	**A20UDDPNR4KC3**	1.250	1.705	1.000	14.00	.26	1/4-18 NPT	-13.0	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408546	**A24UDDPNR4KC3**	1.500	2.000	1.125	14.00	.26	1/4-18 NPT	-10.0	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
left hand															
2408544	**A24UDDPNL4KC3**	1.500	2.000	1.125	14.00	.26	1/4-18 NPT	-10.0	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP

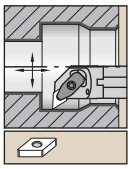


Steel shank with through coolant.

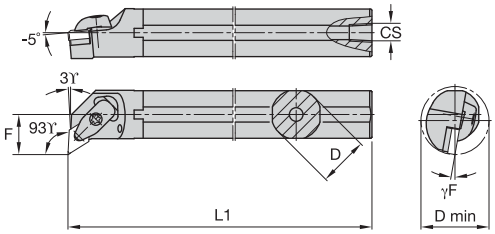


A-DDQN-KC -17.5°

order number	catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand															
2408549	**A20UDDQNR4KC3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-10.0	-12.0	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408550	**A24UDDQNR4KC3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-8.5	-8.5	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
left hand															
2408547	**A20UDDQNL4KC3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-10.0	-12.0	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408548	**A24UDDQNL4KC3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-8.5	-8.5	DN.432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP

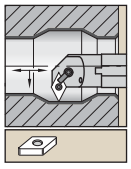


Steel shank with through coolant.

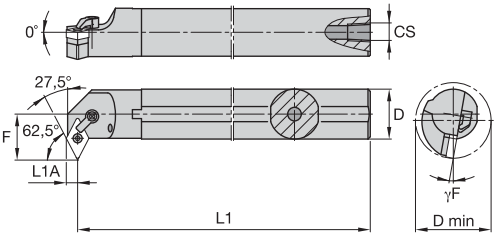


A-DDUN-KC -3°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand														
2408389	**A16TDDUNR3KC3**	1.000	1.300	.750	12.00	1/4-18 NPT	-12.0	DN..332	**–**	**–**	–	**CM234RLP ASSY**	**SSP025016M**	9 IP
2408390	**A20UDDUNR3KC3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-10.0	DN..332	**IDSN322**	**KMSP315IP**	9 IP	**CM234R ASSY**	**SSP025016M**	9 IP
2408391	**A20UDDUNR4KC3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408392	**A24UDDUNR4KC3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2408464	**A32VDDUNR4KC3**	2.000	2.500	1.375	16.00	1/4-18 NPT	-8.0	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
left hand														
2408528	**A16TDDUNL3KC3**	1.000	1.300	.750	12.00	1/4-18 NPT	-12.0	DN..332	**–**	**–**	–	**CM234RLP ASSY**	**SSP025016M**	15 IP

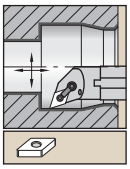


Steel shank with through coolant.

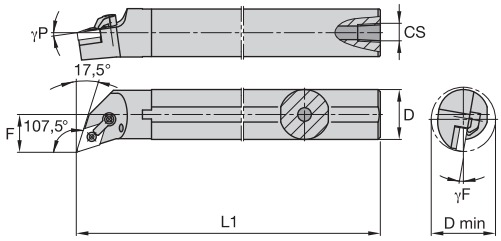


A-MDPN 27.5°

order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1808204	**A20MDPNR4**	1.250	1.705	1.000	14.00	.26	1/4-18 NPT	-13.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8
1808208	**A24MDPNR4**	1.500	2.000	1.125	14.00	.26	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8
left hand															
1808203	**A20MDPNL4**	1.250	1.705	1.000	14.00	.26	1/4-18 NPT	-13.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8
1808207	**A24MDPNL4**	1.500	2.000	1.125	14.00	.26	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8

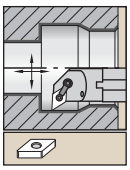


Steel shank with through coolant.

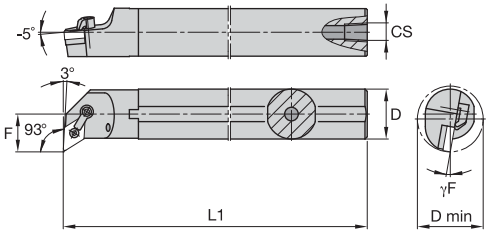


A-MDQN -17.5°

order number	catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1096470	**A20MDQNR4**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096471	**A24MDQNR4**	1.500	2.000	1.125	14.00	1/4-18 NPT	-8.5	-8.5	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
left hand															
1096472	**A20MDQNL4**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096473	**A24MDQNL4**	1.500	2.000	1.125	14.00	1/4-18 NPT	-8.5	-8.5	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32

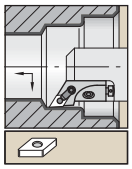


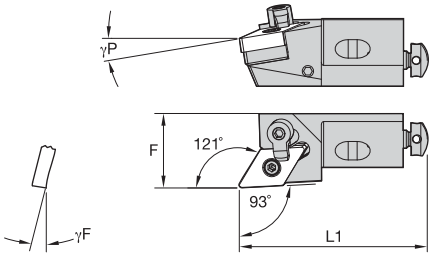
Steel shank with through coolant.

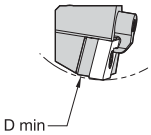


A-MDUN -3°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096444	**A16MDUNR3**	1.000	1.300	.750	12.00	1/4-18 NPT	-12.0	DN..332	**—**	**KL33L**	5/64	**CK7**	**STC5**	3/32
1096447	**A20UMDUNR4**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096448	**A24UMDUNR4**	1.500	2.000	1.125	14.00	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096449	**A28MDUNR4**	1.750	2.250	1.250	14.00	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096450	**A32VMDUNR4**	2.000	2.500	1.375	16.00	1/4-18 NPT	-8.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
left hand														
1096455	**A16MDUNL3**	1.000	1.300	.750	12.00	1/4-18 NPT	-12.0	DN..332	**—**	**KL33L**	5/64	**CK7**	**STC5**	3/32
1096458	**A20UMDUNL4**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096459	**A24UMDUNL4**	1.500	2.000	1.125	14.00	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096460	**A28MDUNL4**	1.750	2.250	1.250	14.00	1/4-18 NPT	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1096461	**A32VMDUNL4**	2.000	2.500	1.375	16.00	1/4-18 NPT	-8.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32



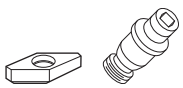


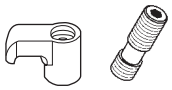


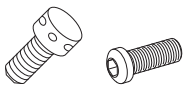
MDJN-3°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
3346241	**MDJNR12CA3**	1.969	.787	2.17	-9.0	-9.0	DN..110408/DN..322
3330275	**MDJNR16CA4**	2.362	.984	2.48	-9.0	-9.0	DN..150408/DN..432
3330199	**MDJNR20CA4**	2.756	.984	2.76	-8.5	-8.5	DN..150408/DN..3.532
left hand							
3346240	**MDJNL12CA3**	1.969	.787	2.17	-9.0	-9.0	DN..110408/DN..322
3330274	**MDJNL16CA4**	2.362	.984	2.48	-9.0	-9.0	DN..150408/DN..432

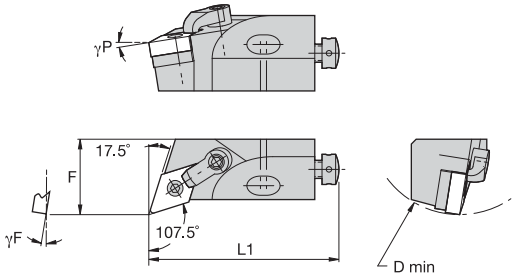
Spare Parts







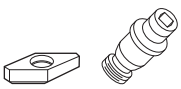
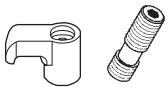
D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**IDSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
2.756	**IDSN432**	**KLM46**	2.5 mm	**CKM41**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

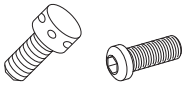


MDQN -17.5°

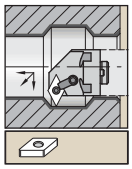
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
3330277	**MDQNR16CA4**	2.362	.984	2.48	-9.0	-6.0	DN..150408/DN..432
3330201	**MDQNR20CA4**	2.756	.984	2.76	-9.0	-8.0	DN..150408/DN..432
left hand							
3330276	**MDQNL16CA4**	2.362	.984	2.48	-9.0	-6.0	DN..150408/DN..432
3330200	**MDQNL20CA4**	2.756	.984	2.76	-9.0	-8.0	DN..150408/DN..432

Spare Parts

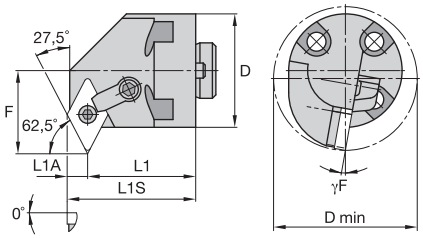





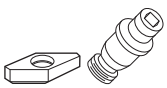
D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
2.362	**IDSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
2.756	**IDSN432**	**KLM46**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

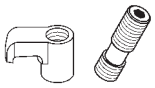


With through coolant.

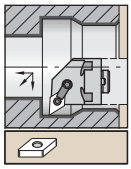


H-MDPN 27.5°

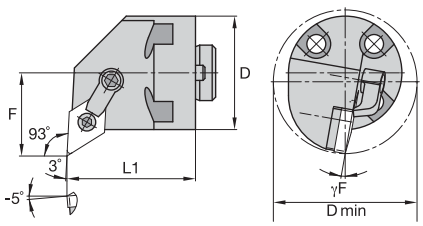




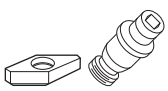
order number	catalog number	D	D min	F	L1	L1A	L1S	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1095383	**H24MDPNR4**	1.500	2.000	1.125	1.37	.26	1.625	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8

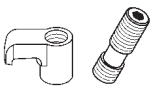


With through coolant.



H-MDUN -3°

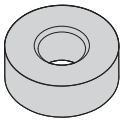
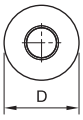




order number	catalog number	D	D min	F	L1	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096484	**H16MDUNR3**	1.000	1.300	.750	1.63	-11.0	DN..332	**—**	**KL33L**	5/64	**CK7**	**STC5**	3/32
1095334	**H20MDUNR4**	1.250	1.705	1.000	1.63	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8
1095385	**H24MDUNR3**	1.500	2.000	1.125	1.63	-10.0	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1095388	**H24MDUNR4**	1.500	2.000	1.125	1.63	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1095436	**H28MDUNR4**	1.750	2.250	1.250	1.63	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1095479	**H32MDUNR3**	2.000	2.500	1.325	1.63	-8.0	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1095480	**H32MDUNR4**	2.000	2.500	1.375	1.63	-8.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1095553	**H40MDUNR4**	2.500	3.250	1.750	1.63	-8.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
left hand													
1096481	**H16MDUNL3**	1.000	1.300	.750	1.63	-11.0	DN..332	**—**	**KL33L**	5/64	**CK7**	**STC5**	3/32
1095335	**H20MDUNL4**	1.250	1.705	1.000	1.63	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK22**	**STC20**	1/8
1095389	**H24MDUNL4**	1.500	2.000	1.125	1.63	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1095437	**H28MDUNL4**	1.750	2.250	1.250	1.63	-10.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1095483	**H32MDUNL4**	2.000	2.500	1.375	1.63	-8.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32
1095556	**H40MDUNL4**	2.500	3.250	1.750	1.63	-8.0	DN..432	**IDSN443**	**KL46L**	3/32	**CK12**	**STC4**	5/32

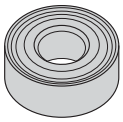
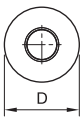
● first choice
○ alternate choice

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

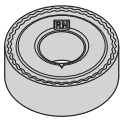
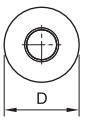
RNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RNMA120400	RNMA43	12,70	1/2	—	—	—	—
RNMA150600	RNMA54	15,88	5/8	—	—	—	—

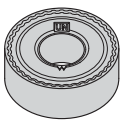
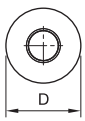
RNMG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RNMG190600	RNMG64	19,05	3/4	—	—	—	—

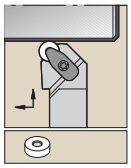
RNMG-RN

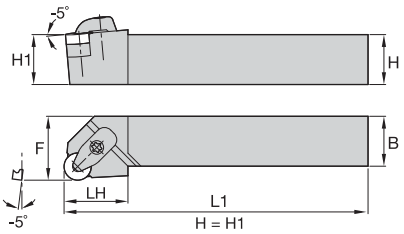
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RNMG090300RN	RNMG32RN	9,53	3/8	—	—	—	—
RNMG120400RN	RNMG43RN	12,70	1/2	—	—	—	—
RNMG150600RN	RNMG54RN	15,88	5/8	—	—	—	—
RNMG190600RN	RNMG64RN	19,05	3/4	—	—	—	—
RNMG250900RN	RNMG86RN	25,40	1	—	—	—	—

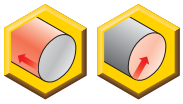



RNMG-UN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RNMG120400UN	RNMG43UN	12,70	1/2	—	—	—	—



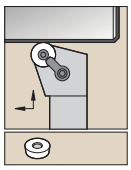


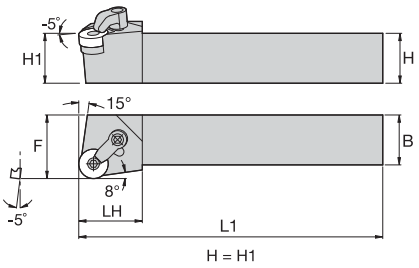


DRGN-KC

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin
right hand												
2397697	**DRGNR164DKC3**	1.00	1.00	1.250	6.00	1.25	RN..43	**IRSN44**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**
2397707	**DRGNR206DKC4**	1.25	1.25	1.500	6.00	1.38	RN..64	**IRSN64**	**KMSP625IP**	25 IP	**CM210R ASSY**	**SSP025016M**
left hand												
2397698	**DRGNL164DKC3**	1.00	1.00	1.250	6.00	1.25	RN..43	**IRSN44**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**
2397700	**DRGNL204DKC3**	1.25	1.25	1.500	6.00	1.25	RN..43	**IRSN44**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**

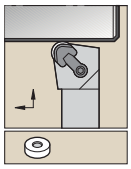
Kenloc™ Toolholders

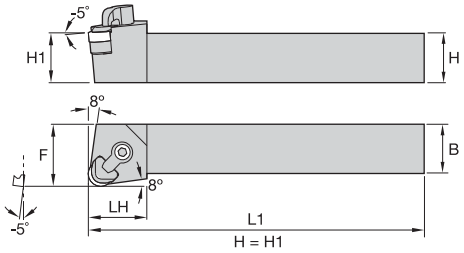




MRGN

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096304	**MRGNR123B**	.75	.75	1.000	4.50	.88	RN..32	**IRSN33**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096305	**MRGNR124B**	.75	.75	1.000	4.50	1.00	RN..43	**IRSN43**	**KL46**	3/32	**CK21**	**STC20**	1/8
1095975	**MRGNR163D**	1.00	1.00	1.250	6.00	.88	RN..32	**IRSN33**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096306	**MRGNR164C**	1.00	1.00	1.250	5.00	1.00	RN..43	**IRSN43**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096307	**MRGNR164D**	1.00	1.00	1.250	6.00	1.00	RN..43	**IRSN43**	**KL46**	3/32	**CK9**	**STC4**	5/32
1095981	**MRGNR166D**	1.00	1.00	1.250	6.00	1.31	RN..64	**IRSN63**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096308	**MRGNR204D**	1.25	1.25	1.500	6.00	1.00	RN..43	**IRSN43**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096309	**MRGNR206D**	1.25	1.25	1.500	6.00	1.31	RN..64	**IRSN63**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808177	**MRGNR246D**	1.50	1.50	2.000	6.00	1.31	RN..64	**IRSN63**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808179	**MRGNR248E**	1.50	1.50	2.000	7.00	1.56	RN..86	**IRSN84**	**KL810**	5/32	**CK24**	**STC19**	3/16
left hand													
1096314	**MRGNL164D**	1.00	1.00	1.250	6.00	1.00	RN..43	**IRSN43**	**KL46**	3/32	**CK9**	**STC4**	5/32
1095982	**MRGNL166D**	1.00	1.00	1.250	6.00	1.31	RN..64	**IRSN63**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096315	**MRGNL204D**	1.25	1.25	1.500	6.00	1.00	RN..43	**IRSN43**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096316	**MRGNL206D**	1.25	1.25	1.500	6.00	1.31	RN..64	**IRSN63**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808175	**MRGNL246D**	1.50	1.50	2.000	6.00	1.31	RN..64	**IRSN63**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808176	**MRGNL248E**	1.50	1.50	2.000	7.00	1.56	RN..86	**IRSN84**	**KL810**	5/32	**CK24**	**STC19**	3/16



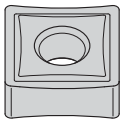


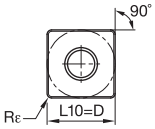
MRGN-C

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096647	**MRGNRC164D**	1.00	1.00	1.250	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096648	**MRGNRC204D**	1.25	1.25	1.500	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096646	**MRGNRC244D**	1.50	1.50	2.000	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
left hand													
1096673	**MRGNLC164D**	1.00	1.00	1.250	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096674	**MRGNLC204D**	1.25	1.25	1.500	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096672	**MRGNLC244D**	1.50	1.50	2.000	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8

● first choice
○ alternate choice

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

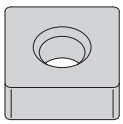


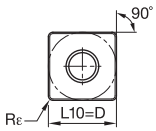


SNGP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
SNGP120404	SNGP431	12,70	1/2	12,70	.500	0,4	1/64
SNGP120408	SNGP432	12,70	1/2	12,70	.500	0,8	1/32

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNGP120404	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
SNGP120408	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

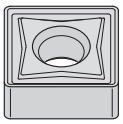


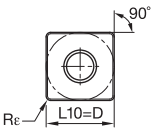


SNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
SNMA120408	SNMA432	12,70	1/2	12,70	.500	0,8	1/32
SNMA120412	SNMA433	12,70	1/2	12,70	.500	1,2	3/64
SNMA150612	SNMA543	15,88	5/8	15,88	.625	1,2	3/64
SNMA190612	SNMA643	19,05	3/4	19,05	.750	1,2	3/64
SNMA190616	SNMA644	19,05	3/4	19,05	.750	1,6	1/16

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMA120408	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMA120412	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMA150612	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMA190612	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMA190616	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



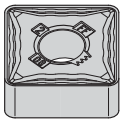


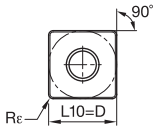
SNMG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
SNMG120408	SNMG432	12,70	1/2	12,70	.500	0,8	1/32
SNMG120412	SNMG433	12,70	1/2	12,70	.500	1,2	3/64
SNMG190612	SNMG643	19,05	3/4	19,05	.750	1,2	3/64
SNMG190616	SNMG644	19,05	3/4	19,05	.750	1,6	1/16
SNMG250924	SNMG866	25,40	1	25,40	1.000	2,4	3/32

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
SNMG120412	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMG190612	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
SNMG190616	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG250924	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

● first choice
○ alternate choice

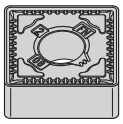


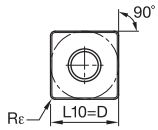


SNMG-FF

P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

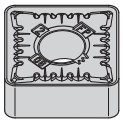
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090304FF	SNMG321FF	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
SNMG090308FF	SNMG322FF	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
SNMG120408FF	SNMG432FF	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

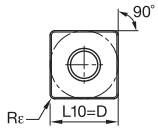




SNMG-FN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090308FN	SNMG322FN	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120404FN	SNMG431FN	12,70	1/2	12,70	.500	0,4	1/64	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120408FN	SNMG432FN	12,70	1/2	12,70	.500	0,8	1/32	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
SNMG120412FN	SNMG433FN	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120416FN	SNMG434FN	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

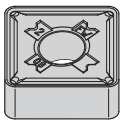


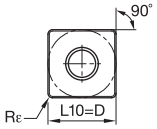


SNMG-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120404FP	SNMG431FP	12,70	1/2	12,70	.500	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–
SNMG120408FP	SNMG432FP	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	–	–	–	–

● first choice
○ alternate choice

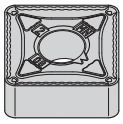


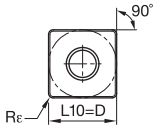


SNMG-FW

P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
M									○	○							●	●	●	●	●	●		●	●	●	●	●	●	●
K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●	●
N																								●	●	●	●	●	●	
S																								●	●	●	●	●	●	
H																														

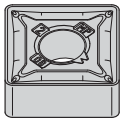
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408FW	SNMG432FW	12,70	1/2	12,70	.500	0,8	1/32	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412FW	SNMG433FW	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

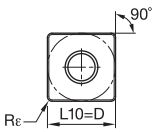




SNMG-MN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090308MN	SNMG322MN	9,53	3/8	9,53	.375	0,8	1/32	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG090312MN	SNMG323MN	9,53	3/8	9,53	.375	1,2	3/64	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120404MN	SNMG431MN	12,70	1/2	12,70	.500	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120408MN	SNMG432MN	12,70	1/2	12,70	.500	0,8	1/32	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412MN	SNMG433MN	12,70	1/2	12,70	.500	1,2	3/64	–	–	●	●	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120416MN	SNMG434MN	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612MN	SNMG543MN	15,88	5/8	15,88	.625	1,2	3/64	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150616MN	SNMG544MN	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190612MN	SNMG643MN	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190616MN	SNMG644MN	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



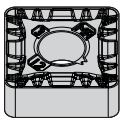


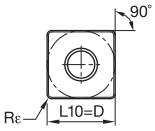
SNMG-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MP	SNMG432MP	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	●	–	●	–	–	–
SNMG120412MP	SNMG433MP	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	●	●	●	–	–	–	–
SNMG120416MP	SNMG434MP	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–
SNMG150608MP	SNMG542MP	15,88	5/8	15,88	.625	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612MP	SNMG543MP	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–	–
SNMG150616MP	SNMG544MP	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
SNMG190612MP	SNMG643MP	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–
SNMG190616MP	SNMG644MP	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

● first choice
○ alternate choice

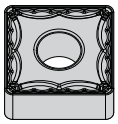
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

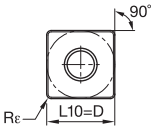




SNMG-MR

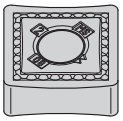
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MR	SNMG432MR	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–
SNMG120412MR	SNMG433MR	12,70	1/2	12,70	.500	1,2	3/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–
SNMG150612MR	SNMG543MR	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–

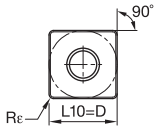




SNMG-MG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120416MG	SNMG434MG	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

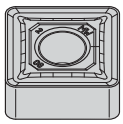


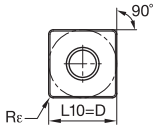


SNMG-MS

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MS	SNMG432MS	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
SNMG120412MS	SNMG433MS	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
SNMG150608MS	SNMG542MS	15,88	5/8	15,88	.625	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
SNMG150612MS	SNMG543MS	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
SNMG190612MS	SNMG643MS	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–

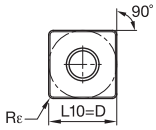
● first choice
○ alternate choice





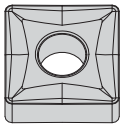
SNMG-MW

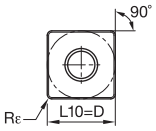
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MW	SNMG432MW	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412MW	SNMG433MW	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



SNMG-P

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120412P	SNMG433P	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

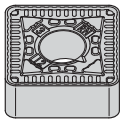


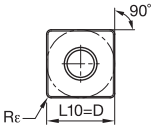


SNMG-RM

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG250924RM	SNMG866RM	25,40	1	25,40	1.000	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–

● first choice
○ alternate choice



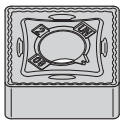


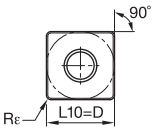
SNMG-RN

| | | |

● first choice
○ alternate choice

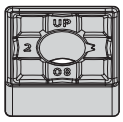
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

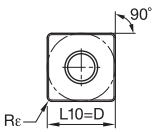




SNMG-UN

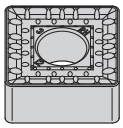
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408UN	SNMG432UN	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412UN	SNMG433UN	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120416UN	SNMG434UN	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612UN	SNMG543UN	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150616UN	SNMG544UN	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190612UN	SNMG643UN	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190616UN	SNMG644UN	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

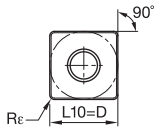




SNMG-UP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408UP	SNMG432UP	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–
SNMG120412UP	SNMG433UP	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–
SNMG150612UP	SNMG543UP	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	●	–	–	–	–	–	–



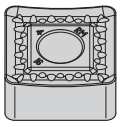


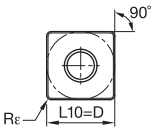
SNMM-RH

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM190612RH	SNMM643RH	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190616RH	SNMM644RH	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	●	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190624RH	SNMM646RH	19,05	3/4	19,05	.750	2,4	3/32	–	–	–	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RH	SNMM856RH	25,40	1	25,40	1.000	2,4	3/32	–	–	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250924RH	SNMM866RH	25,40	1	25,40	1.000	2,4	3/32	–	–	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

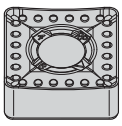
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

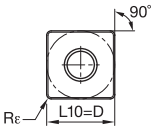




SNMM-RM

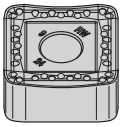
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM120408RM	SNMM432RM	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM120412RM	SNMM433RM	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150612RM	SNMM543RM	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150616RM	SNMM544RM	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190612RM	SNMM643RM	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190616RM	SNMM644RM	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190624RM	SNMM646RM	19,05	3/4	19,05	.750	2,4	3/32	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RM	SNMM856RM	25,40	1	25,40	1.000	2,4	3/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250924RM	SNMM866RM	25,40	1	25,40	1.000	2,4	3/32	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

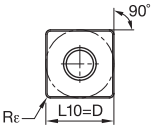




SNMM-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM120408RP	SNMM432RP	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–
SNMM120412RP	SNMM433RP	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150612RP	SNMM543RP	15,88	5/8	15,88	.625	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150616RP	SNMM544RP	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190612RP	SNMM643RP	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190616RP	SNMM644RP	19,05	3/4	19,05	.750	1,6	1/16	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190624RP	SNMM646RP	19,05	3/4	19,05	.750	2,4	3/32	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RP	SNMM856RP	25,40	1	25,40	1.000	2,4	3/32	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250924RP	SNMM866RP	25,40	1	25,40	1.000	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–



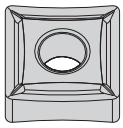


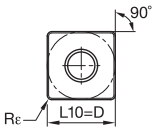
SNMM-RW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM190624RW	SNMM646RW	19,05	3/4	19,05	.750	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RW	SNMM856RW	25,40	1	25,40	1.000	2,4	3/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

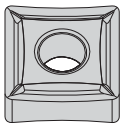
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

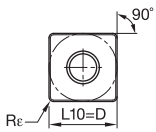




SNMP

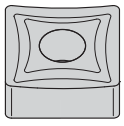
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMP190612	SNMP643	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–

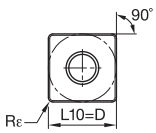




SNMP-K

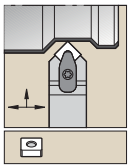
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMP120408K	SNMP432K	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

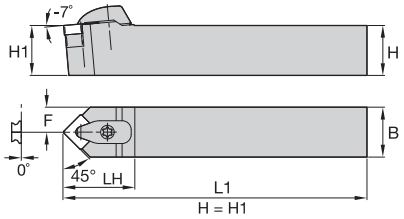




SNMS

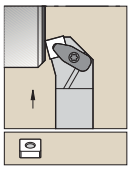
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMS120408	SNMS432	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMS190612	SNMS643	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

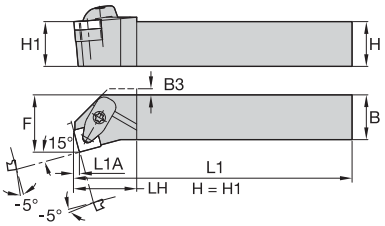


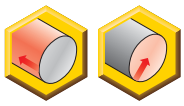


DSDN-KC 45°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
2273072	DSDNN124KC3	.75	.75	.375	4.50	1.44	SN..432	ISSN433	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
1908834	DSDNN164KC3	1.00	1.00	.500	6.00	1.44	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
1908835	DSDNN204KC3	1.25	1.25	.625	6.00	1.44	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
2273024	DSDNN206KC4	1.25	1.25	.625	6.00	1.75	SN..643	ISSN643	KMSP625IP	25 IP	CM210R ASSY	25 IP	SSP025016M

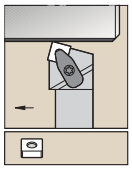


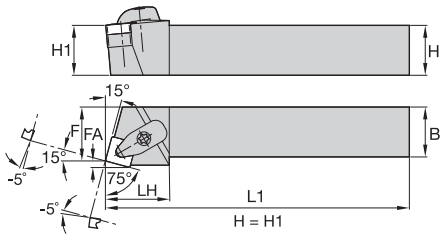


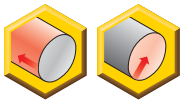


DSKN-KC 15°

order number	catalog number	H	B	F	L1	LH	L1A	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand															
2273070	DSKNR164CKC3	1.00	1.00	1.250	5.00	1.25	.12	.12	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M
left hand															
2273071	DSKNL164CKC3	1.00	1.00	1.250	5.00	1.25	.12	.12	SN..432	ISSN443	KMSP415IP	15 IP	CM234R ASSY	15 IP	SSP025016M

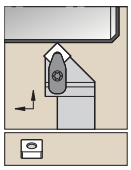


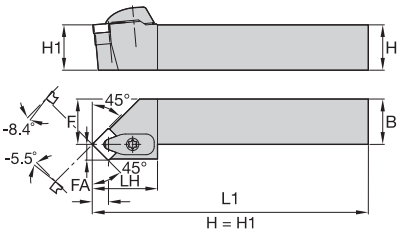




DSRN-KC 15°

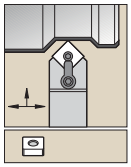
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
left hand														
1875168	**DSRNL164DKC3**	1.00	1.00	1.130	6.00	1.25	.12	SN..432	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875184	**DSRNL204DKC3**	1.25	1.25	1.380	6.00	1.25	.12	SN..432	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273027	**DSRNL206DKC4**	1.25	1.25	1.321	6.00	1.50	.18	SN..643	**ISSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**

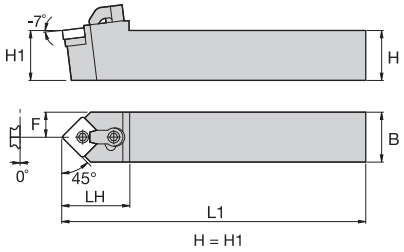




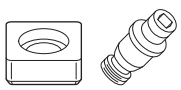
DSSN-KC 45°

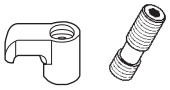
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
1875163	**DSSNR164DKC3**	1.00	1.00	.912	6.00	1.50	.34	SN..432	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
left hand														
1875179	**DSSNL164DKC3**	1.00	1.00	.912	6.00	1.50	.34	SN..432	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**



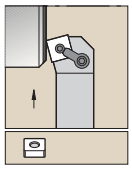


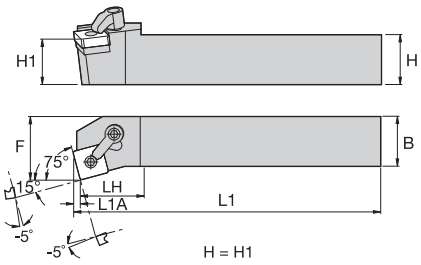
MSDN 45°

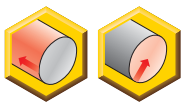




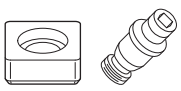
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096180	**MSDNN083**	.50	.50	.250	4.50	1.14	SN..322	**ISSN322**	**KL34**	5/64	**CK6**	**STC5**	3/32
1096181	**MSDNN103**	.63	.63	.312	4.50	1.14	SN..322	**ISSN322**	**KL34**	5/64	**CK6**	**STC5**	3/32
1096182	**MSDNN123**	.75	.75	.375	4.50	1.14	SN..322	**ISSN322**	**KL34**	5/64	**CK6**	**STC5**	3/32
1096183	**MSDNN124**	.75	.75	.375	4.50	1.39	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096184	**MSDNN164**	1.00	1.00	.500	6.00	1.39	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096185	**MSDNN854**	1.25	1.00	.500	6.00	1.39	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096186	**MSDNN855**	1.25	1.00	.500	6.00	1.62	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096187	**MSDNN856**	1.25	1.00	.500	6.00	1.62	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808182	**MSDNN206**	1.25	1.25	.625	7.00	1.63	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808183	**MSDNN246**	1.50	1.50	.750	7.00	1.63	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

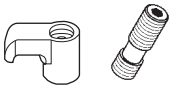




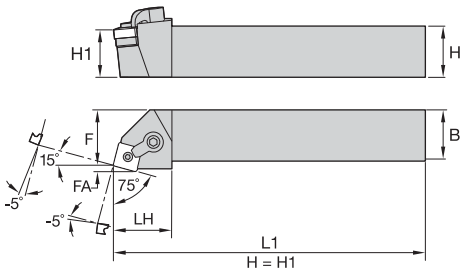


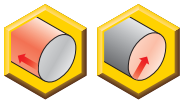
MSKN 15°





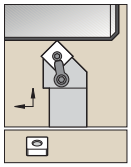
order number	catalog number	H	B	F	L1	LH	L1A	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096169	**MSKNR124B**	.75	.75	1.000	4.50	1.25	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096170	**MSKNR164C**	1.00	1.00	1.250	5.00	1.25	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096171	**MSKNR164D**	1.00	1.00	1.250	6.00	1.25	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808189	**MSKNR205D**	1.25	1.25	1.500	6.00	1.34	.15	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808190	**MSKNR206D**	1.25	1.25	1.500	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808191	**MSKNR248**	1.50	1.50	2.000	8.00	1.62	.23	SN..866	**ISSN846**	**KL810**	5/32	**CK24**	**STC19**	3/16
left hand														
1808185	**MSKNL205D**	1.25	1.25	1.500	6.00	1.34	.15	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808186	**MSKNL206D**	1.25	1.25	1.500	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808187	**MSKNL246D**	1.50	1.50	2.000	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

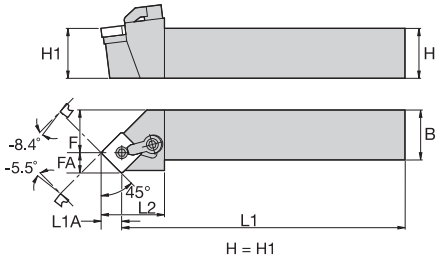




MSRN 15°

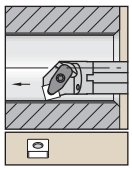
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096149	**MSRNR124B**	.75	.75	.880	4.50	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096150	**MSRNR164C**	1.00	1.00	1.130	5.00	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096151	**MSRNR164D**	1.00	1.00	1.130	6.00	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808196	**MSRNR165C**	1.00	1.00	1.103	5.00	1.46	.15	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096152	**MSRNR205D**	1.25	1.25	1.353	6.00	1.46	.15	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096156	**MSRNR856D**	1.25	1.00	1.071	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096153	**MSRNR206D**	1.25	1.25	1.321	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096154	**MSRNR246D**	1.50	1.50	1.821	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096155	**MSRNR246E**	1.50	1.50	1.821	7.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808197	**MSRNR248**	1.50	1.50	1.770	8.00	1.62	.23	SN..866	**ISSN846**	**KL810**	5/32	**CK24**	**STC19**	3/16
1808198	**MSRNR328**	2.00	2.00	2.270	18.00	1.62	.23	SN..866	**ISSN846**	**KL810**	5/32	**CK24**	**STC19**	3/16
left hand														
1096159	**MSRNL124B**	.75	.75	.880	4.50	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096160	**MSRNL164C**	1.00	1.00	1.130	5.00	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096161	**MSRNL164D**	1.00	1.00	1.130	6.00	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808195	**MSRNL854D**	1.25	1.00	1.130	6.00	1.23	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096029	**MSRNL204D**	1.25	1.25	1.380	6.00	1.25	.12	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808194	**MSRNL165C**	1.00	1.00	1.103	5.00	1.46	.15	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096162	**MSRNL205D**	1.25	1.25	1.353	6.00	1.46	.15	SN..543	**ISSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096163	**MSRNL206D**	1.25	1.25	1.321	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096164	**MSRNL246D**	1.50	1.50	1.821	6.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096165	**MSRNL246E**	1.50	1.50	1.821	7.00	1.50	.18	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32



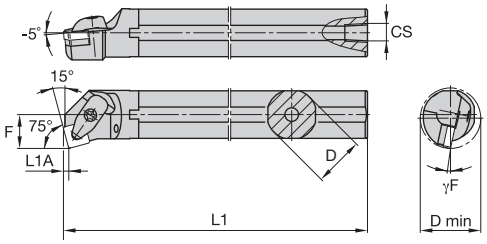


MSSN 45°

order number	catalog number	H	B	F	L1	LH	FS	FA	L1A	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand																
1096038	**MSSNR123B**	.75	.75	.641	4.50	1.12	.89	.25	.25	SN..322	**ISSN322**	**KL34**	5/64	**CK6**	**STC5**	3/32
1096039	**MSSNR124B**	.75	.75	.662	4.50	1.24	1.00	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096040	**MSSNR164C**	1.00	1.00	.912	5.00	1.24	—	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096041	**MSSNR164D**	1.00	1.00	.912	6.00	1.24	1.25	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808448	**MSSNR854D**	1.25	1.00	.912	6.00	1.24	1.25	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808384	**MSSNR165D**	1.00	1.00	.828	6.00	1.38	1.25	.42	.42	SN..543	**ISSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1808445	**MSSNR205D**	1.25	1.25	1.078	6.00	1.38	1.50	.42	.42	SN..543	**ISSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096042	**MSSNR206D**	1.25	1.25	.992	6.00	1.48	1.50	.51	.53	SN..643	**ISSN633**	**KL68**	9/64	**CK9**	**STC4**	5/32
1756488	**MSSNR246D**	1.50	1.50	1.511	6.00	1.48	—	.52	.53	SN..643	**ISSN633**	**KL68**	9/64	**CK9**	**STC4**	5/32
left hand																
1096047	**MSSNL164C**	1.00	1.00	.912	5.00	1.24	—	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096048	**MSSNL164D**	1.00	1.00	.912	6.00	1.24	1.25	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808341	**MSSNL854D**	1.25	1.00	.912	6.00	1.24	1.25	.34	.33	SN..432	**ISSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808338	**MSSNL165D**	1.00	1.00	.828	6.00	1.38	1.25	.42	.42	SN..543	**ISSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1808339	**MSSNL205D**	1.25	1.25	1.078	6.00	1.38	1.50	.42	.42	SN..543	**ISSN533**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096049	**MSSNL206D**	1.25	1.25	.992	6.00	1.48	1.50	.51	.53	SN..643	**ISSN633**	**KL68**	9/64	**CK9**	**STC4**	5/32
1756489	**MSSNL246D**	1.50	1.50	1.511	6.00	1.48	—	.52	.53	SN..643	**ISSN633**	**KL68**	9/64	**CK9**	**STC4**	5/32

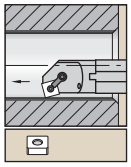


Steel shank with through coolant.

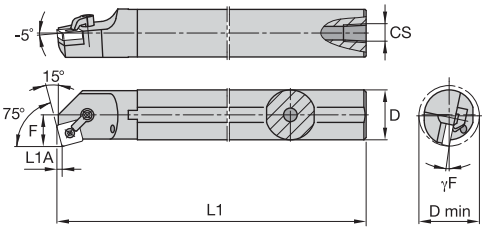


A-DSKN-KC 15°

order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
left hand															
2408494	**A20UDSKNL3KC2**	1.250	1.470	.765	14.00	.09	1/4-18 NPT	-10.0	SN..322	**ISSN332**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP

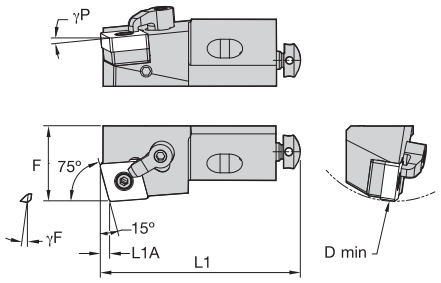


Steel shank with through coolant.



A-MSKN 15°

order number	catalog number	D	D min	F	L1	L1A	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1096403	**A20MSKNR4**	1.250	1.470	.765	14.00	.12	1/4-18 NPT	-14.0	SN..432	**—**	**KL44**	3/32	**CK9**	**STC4**	5/32
1096408	**A40MSKNR6**	2.500	3.030	1.531	16.00	.18	1/4-18 NPT	-10.0	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32



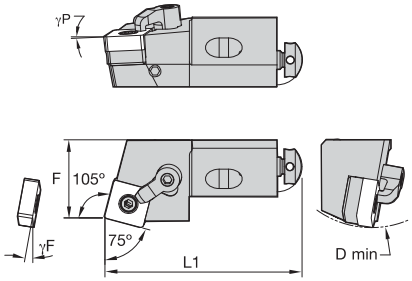
MSKN 15°

order number	catalog number	D min	F	L1	L1A	γF°	γP°	gage insert
right hand								
2114011	**MSKNR10CA3**	1.575	.551	1.97	.09	-9.0	-5.0	SN..090308/SN..322
2114013	**MSKNR12CA4**	1.969	.787	2.17	.12	-9.0	-5.0	SN..120408/SN..432
2074430	**MSKNR16CA4**	2.362	.984	2.48	.12	-9.0	-5.0	SN..120408/SN..432
2072222	**MSKNR20CA5**	2.756	.984	2.76	.15	-9.0	-5.0	SN..150612/SN..543
2987166	**MSKNR25CA6**	3.937	1.260	3.94	.18	-9.0	-5.0	SN..190612/SN..543
left hand								
3346242	**MSKNL12CA4**	1.969	.787	2.17	.12	-9.0	-5.0	SN..120408/SN..432
3330202	**MSKNL20CA5**	2.756	.984	2.76	.15	-9.0	-5.0	SN..150612/SN..543

NOTE: Select spare parts based off of D min and insert size selected.

Spare Parts

D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	mounting screw	hex	washer
1.575	—	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	—	—	4 mm	**CSWM 060 050**
1.969	—	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	—	**191.406**	—	4 mm	**CSWM 060 050**
2.362	**ISSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	—	**191.407**	—	5 mm	**CSWM 080 050**
2.756	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	—	**191.407**	—	5 mm	**CSWM 080 050**
3.937	**ISSN633**	**KLM68**	4 mm	**CKM35**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM32**	—	—	**MS364**	8 mm	**CSWM 100 080**

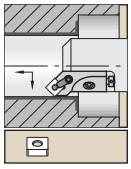


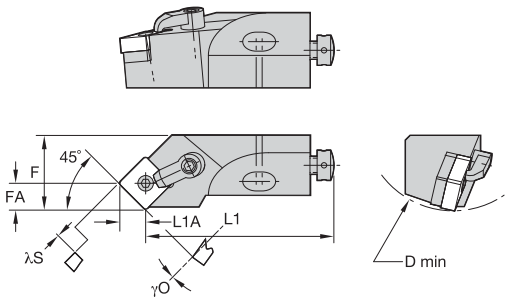
MSRN 15°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098436	**MSRNR10CA3**	1.575	.551	1.97	-9.0	-5.0	SN..090308/SN..322
2078231	**MSRNR12CA4**	1.969	.787	2.17	-9.0	-5.0	SN..120408/SN..432
2074432	**MSRNR16CA4**	2.362	.984	2.48	-9.0	-5.0	SN..120408/SN..432
left hand							
1282803	**MSRNL12CA4**	1.969	.787	2.17	-9.0	-5.0	SN..120408/SN..432
3330279	**MSRNL16CA4**	2.362	.984	2.48	-9.0	-5.0	SN..120408/SN..432
3330203	**MSRNL20CA5**	2.756	.984	2.76	-9.0	-5.0	SN..150612/SN..543

Spare Parts

D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	**–**	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
1.969	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**
2.362	**ISSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**
2.756	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**



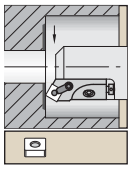


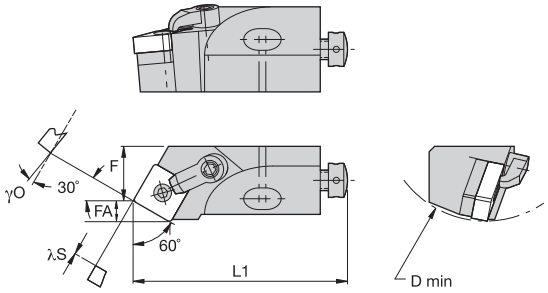
MSSN 45°

order number	catalog number	D min	F	FA	L1	L1A	λS°	γO°	gage insert
right hand									
1339367	**MSSNR10CA3**	1.575	.551	.252	1.73	.24	-13.0	.0	SN..090308/SN..322
1282807	**MSSNR12CA4**	1.969	.787	—	1.85	.33	-13.0	.0	SN..120408/SN..432
3330281	**MSSNR16CA4**	2.362	.984	.343	2.09	.33	-13.0	.0	SN..120408/SN..432
3330206	**MSSNR20CA5**	2.756	.984	.560	2.36	.40	-13.0	.0	SN..150612/SN..543
left hand									
2071758	**MSSNL10CA3**	1.575	.551	.252	1.73	.24	-13.0	.0	SN..090308/SN..322
2071739	**MSSNL12CA4**	1.969	.787	—	1.85	.33	-13.0	.0	SN..120408/SN..432

Spare Parts

D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	—	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	—	4 mm	**CSWM 060 050**
1.969	—	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	—	**191.406**	4 mm	**CSWM 060 050**
2.362	**ISSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	—	**191.407**	5 mm	**CSWM 080 050**
2.756	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	—	**191.407**	5 mm	**CSWM 080 050**

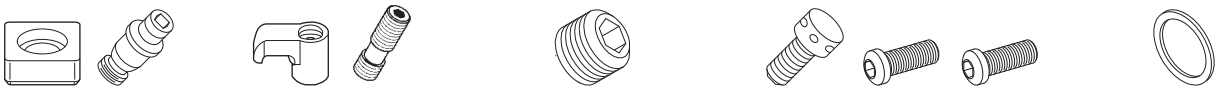




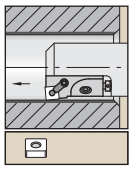
MSTN 30°

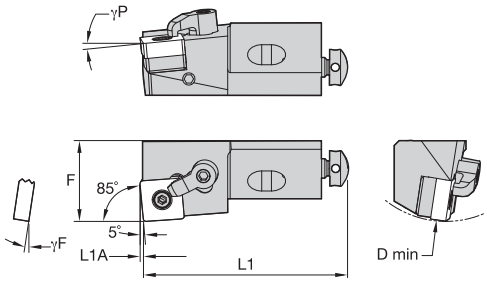
order number	catalog number	D min	F	FA	L1	λS°	γO°	gage insert
right hand								
3331149	**MSTNR10CA3**	1.575	.354	.524	1.97	-11.0	.0	SN..090308/SN..322
2074904	**MSTNR12CA4**	1.969	.512	.231	2.17	-11.0	.0	SN..120408/SN..432

Spare Parts



D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	–	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	–	4 mm	**CSWM 060 050**
1.969	–	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**





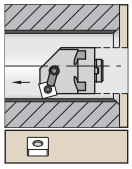
MSYN 5°

order number	catalog number	D min	F	L1	L1A	γF°	γP°	gage insert
right hand								
2114015	**MSYNR10CA3**	1.575	.551	1.97	.03	-9.0	-5.0	SN..090308/SN..322
3346274	**MSYNR12CA4**	1.969	.787	2.17	.04	-9.0	-5.0	SN..120408/SN..432
3330283	**MSYNR16CA4**	2.362	.984	2.48	.04	-9.0	-5.0	SN..120408/SN..432
1098465	**MSYNR25CA19**	3.937	1.260	3.94	.06	-9.0	-5.0	SN..190612/SN..643
left hand								
3331150	**MSYNL10CA3**	1.575	.551	1.97	.03	-9.0	-5.0	SN..090308/SN..322
3346273	**MSYNL12CA4**	1.969	.787	2.17	.04	-9.0	-5.0	SN..120408/SN..432
1098691	**MSYNL20CA15**	2.756	.984	2.76	.05	-9.0	-5.0	SN..150612/SN..543

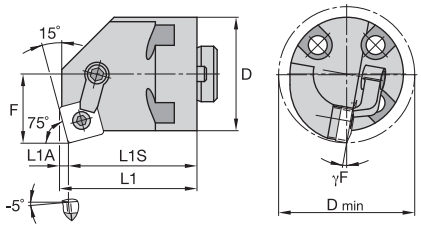
NOTE: Select spare parts based off of D min and insert size selected.

Spare Parts

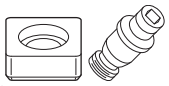
D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	mounting screw	hex	washer
1.575	—	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	—	—	4 mm	**CSWM 060 050**
1.969	—	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	—	**191.406**	—	4 mm	**CSWM 060 050**
2.362	**ISSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	—	**191.407**	—	5 mm	**CSWM 080 050**
2.756	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM33**	—	**191.407**	—	6 mm	**CSWM 080 050**
3.937	**ISSN633**	**KLM68**	4 mm	**CKM34**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM33**	—	—	**MS364**	8 mm	**CSWM 100 080**

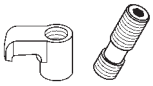


With through coolant.

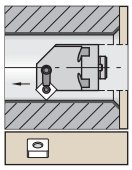


H-MSKN 15°

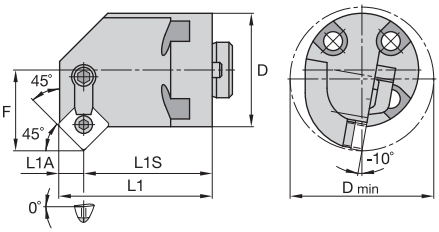




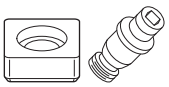
order number	catalog number	D	D min	F	L1	L1A	L1S	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand															
1095392	**H24MSKNR4**	1.500	1.760	.890	1.63	.12	1.744	-10.0	SN..432	**ISSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
1095485	**H32MSKNR4**	2.000	2.400	1.281	1.63	.12	1.744	-12.0	SN..432	**ISSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
1095558	**H40MSKNR6**	2.500	3.030	1.531	1.63	.18	1.804	-10.0	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand															
1095560	**H40MSKNL6**	2.500	3.030	1.531	1.63	.18	1.804	-10.0	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

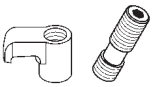


With through coolant.



H-MSSN 45°

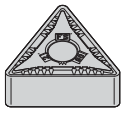


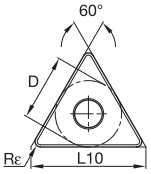


order number	catalog number	D	D min	F	L1	L1A	L1S	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1095360	**H24MSSNR4**	1.500	2.000	1.125	1.63	.34	1.287	SN..432	**ISSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
1095531	**H40MSSNR6**	2.500	3.250	1.750	1.63	.51	1.118	SN..643	**ISSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

● first choice
○ alternate choice

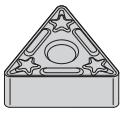
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

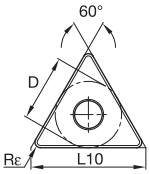




TNGG-FS

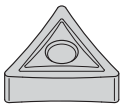
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNGG160402FS	TNGG3305FS	9,53	3/8	16,50	.650	0,2	.008
TNGG160404FS	TNGG331FS	9,53	3/8	16,50	.650	0,4	1/64
TNGG220408FS	TNGG432FS	12,70	1/2	22,00	.866	0,8	1/32

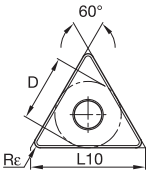




TNGG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNGG160402LF	TNGG3305LF	9,53	3/8	16,50	.650	0,2	.008
TNGG160404LF	TNGG331LF	9,53	3/8	16,50	.650	0,4	1/64
TNGG160408LF	TNGG332LF	9,53	3/8	16,50	.650	0,8	1/32



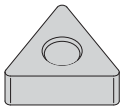


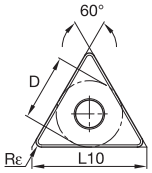
TNGP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNGP160402	TNGP3305	9,53	3/8	16,50	.650	0,2	.008
TNGP160404	TNGP331	9,53	3/8	16,50	.650	0,4	1/64
TNGP160408	TNGP332	9,53	3/8	16,50	.650	0,8	1/32

● first choice
○ alternate choice

TNMA

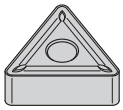


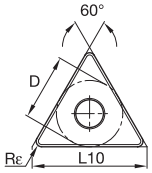


P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●	●		●	●	●	●	●	●		●
K	○	○	○	○	○	○					●	●	●	●	●	●									●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMA160408	TNMA332	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMA160412	TNMA333	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMA160416	TNMA334	9,53	3/8	16,50	.650	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMA220408	TNMA432	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMA220412	TNMA433	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMA270616	TNMA544	15,88	5/8	27,50	1.083	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

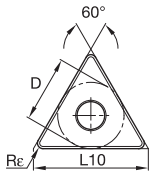
TNMG





ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG220412	TNMG433	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMG330924	TNMG666	19,05	3/4	33,00	1.299	2,4	3/32	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

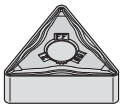
TNMG-CT

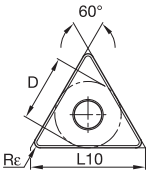


ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408CT	TNMG332CT	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

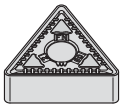
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

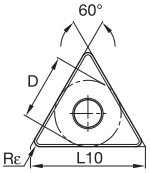




TNMG-FF

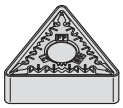
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG110304FF	TNMG221FF	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG110308FF	TNMG222FF	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
TNMG160404FF	TNMG331FF	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
TNMG160408FF	TNMG332FF	9,53	3/8	16,50	.650	0,8	1/32	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●

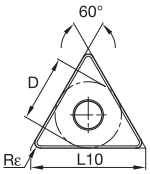




TNMG-FN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG110304FN	TNMG221FN	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG110308FN	TNMG222FN	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160404FN	TNMG331FN	9,53	3/8	16,50	.650	0,4	1/64	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
TNMG160408FN	TNMG332FN	9,53	3/8	16,50	.650	0,8	1/32	●	–	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
TNMG160412FN	TNMG333FN	9,53	3/8	16,50	.650	1,2	3/64	–	●	●	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
TNMG220404FN	TNMG431FN	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408FN	TNMG432FN	12,70	1/2	22,00	.866	0,8	1/32	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412FN	TNMG433FN	12,70	1/2	22,00	.866	1,2	3/64	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



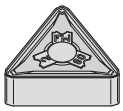


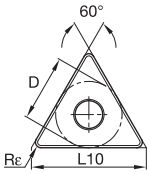
TNMG-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404FP	TNMG331FP	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
TNMG160408FP	TNMG332FP	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
TNMG160412FP	TNMG333FP	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
TNMG220404FP	TNMG431FP	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	●	–	–	–
TNMG220408FP	TNMG432FP	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–

● first choice
○ alternate choice

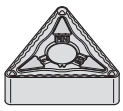
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

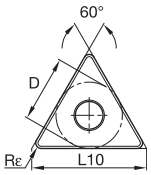




TNMG-FW

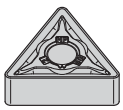
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404FW	TNMG331FW	9,53	3/8	16,50	.650	0,2	.007	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
TNMG160408FW	TNMG332FW	9,53	3/8	16,50	.650	0,4	.016	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
TNMG160412FW	TNMG333FW	9,53	3/8	16,50	.650	1,2	3/64	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

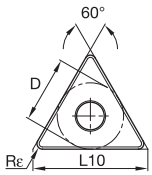




TNMG-MN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404MN	TNMG331MN	9,53	3/8	16,50	.650	0,4	1/64	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160408MN	TNMG332MN	9,53	3/8	16,50	.650	0,8	1/32	–	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412MN	TNMG333MN	9,53	3/8	16,50	.650	1,2	3/64	–	–	●	–	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220404MN	TNMG431MN	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408MN	TNMG432MN	12,70	1/2	22,00	.866	0,8	1/32	–	–	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412MN	TNMG433MN	12,70	1/2	22,00	.866	1,2	3/64	–	–	●	–	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



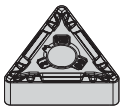


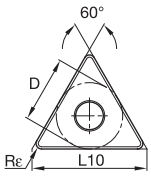
TNMG-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404MP	TNMG331MP	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	●	–	●	–	–	–
TNMG160408MP	TNMG332MP	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
TNMG160412MP	TNMG333MP	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	●	–	–	–
TNMG220408MP	TNMG432MP	12,70	1/2	22,00	.866	0,8	1/32	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	●	–	●	–	–	–
TNMG220412MP	TNMG433MP	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	●	–	–	–
TNMG220416MP	TNMG434MP	12,70	1/2	22,00	.866	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

● first choice
○ alternate choice

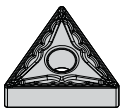
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

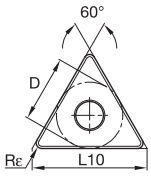




TNMG-MR

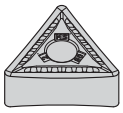
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408MR	TNMG332MR	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
TNMG160412MR	TNMG333MR	9,53	3/8	16,50	.650	1,2	3/64	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408MR	TNMG432MR	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
TNMG220412MR	TNMG433MR	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270612MR	TNMG543MR	15,88	5/8	27,50	1.083	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

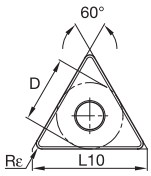




TNMG-MG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408MG	TNMG332MG	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



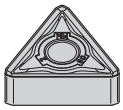


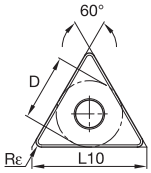
TNMG-MS

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160402MS	TNMG3305MS	9,53	3/8	16,50	.650	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TNMG160404MS	TNMG331MS	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TNMG160408MS	TNMG332MS	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TNMG220404MS	TNMG431MS	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TNMG220408MS	TNMG432MS	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
TNMG220412MS	TNMG433MS	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
TNMG270608MS	TNMG542MS	15,88	5/8	27,50	1.083	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–
TNMG270616MS	TNMG544MS	15,88	5/8	27,50	1.083	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

● first choice
○ alternate choice

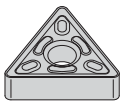
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

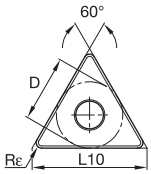




TNMG-MW

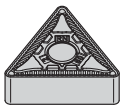
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408MW	TNMG332MW	9,53	3/8	16,50	.650	0,8	1/32	–	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412MW	TNMG333MW	9,53	3/8	16,50	.650	1,2	3/64	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

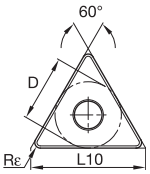




TNMG-P

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404P	TNMG331P	9,53	3/8	16,50	.650	0,4	.016	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
TNMG160408P	TNMG332P	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG220404P	TNMG431P	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG220408P	TNMG432P	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG220412P	TNMG433P	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–



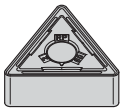


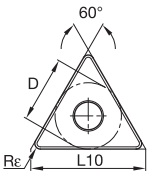
TNMG-RN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408RN	TNMG332RN	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412RN	TNMG333RN	9,53	3/8	16,50	.650	1,2	3/64	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408RN	TNMG432RN	12,70	1/2	22,00	.866	0,8	1/32	–	–	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412RN	TNMG433RN	12,70	1/2	22,00	.866	1,2	3/64	–	–	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220416RN	TNMG434RN	12,70	1/2	22,00	.866	1,6	1/16	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270608RN	TNMG542RN	15,88	5/8	27,50	1.083	0,8	1/32	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270612RN	TNMG543RN	15,88	5/8	27,50	1.083	1,2	3/64	–	–	●	●	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270616RN	TNMG544RN	15,88	5/8	27,50	1.083	1,6	1/16	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG330924RN	TNMG666RN	19,05	3/4	33,00	1.299	2,4	3/32	–	–	●	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

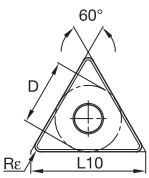




TNMG-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNMG160408RP	TNMG332RP	9,53	3/8	16,50	.650	0,8	1/32
TNMG160412RP	TNMG333RP	9,53	3/8	16,50	.650	1,2	3/64
TNMG160416RP	TNMG334RP	9,53	3/8	16,50	.650	1,6	1/16
TNMG220408RP	TNMG432RP	12,70	1/2	22,00	.866	0,8	1/32
TNMG220412RP	TNMG433RP	12,70	1/2	22,00	.866	1,2	3/64
TNMG220416RP	TNMG434RP	12,70	1/2	22,00	.866	1,6	1/16
TNMG220432RP	TNMG438RP	12,70	1/2	22,00	.866	3,2	1/8
TNMG270612RP	TNMG543RP	15,88	5/8	27,50	1.083	1,2	3/64
TNMG270616RP	TNMG544RP	15,88	5/8	27,50	1.083	1,6	1/16
TNMG330924RP	TNMG666RP	19,05	3/4	33,00	1.299	2,4	3/32

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408RP	TNMG332RP	–	●	●	●	●	●	–	●	–	–	–	●	–	–	–	●	–	●	–	●	–	–	–	–	–	●	●	●	●	–	–
TNMG160412RP	TNMG333RP	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	●	–	–	–	–	●	–	●	–	–
TNMG160416RP	TNMG334RP	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408RP	TNMG432RP	–	–	●	–	●	●	–	–	●	–	–	–	–	–	●	–	–	–	●	●	–	–	–	–	–	●	●	●	●	–	–
TNMG220412RP	TNMG433RP	–	–	–	●	●	–	–	–	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	–	–	–	–
TNMG220416RP	TNMG434RP	–	–	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–
TNMG220432RP	TNMG438RP	–	–	●	–	●	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
TNMG270612RP	TNMG543RP	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	●	●	●	–	–	–
TNMG270616RP	TNMG544RP	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–
TNMG330924RP	TNMG666RP	–	–	–	–	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–



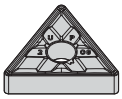
TNMG-UN

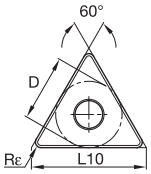
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNMG160408UN	TNMG332UN	9,53	3/8	16,50	.650	0,8	1/32
TNMG160412UN	TNMG333UN	9,53	3/8	16,50	.650	1,2	3/64
TNMG160416UN	TNMG334UN	9,53	3/8	16,50	.650	1,6	1/16
TNMG220408UN	TNMG432UN	12,70	1/2	22,00	.866	0,8	1/32
TNMG220412UN	TNMG433UN	12,70	1/2	22,00	.866	1,2	3/64
TNMG220416UN	TNMG434UN	12,70	1/2	22,00	.866	1,6	1/16

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408UN	TNMG332UN	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412UN	TNMG333UN	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160416UN	TNMG334UN	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408UN	TNMG432UN	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412UN	TNMG433UN	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220416UN	TNMG434UN	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

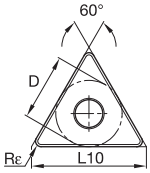
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																





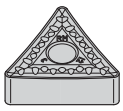
TNMG-UP

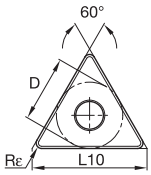
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404UP	TNMG331UP	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
TNMG160408UP	TNMG332UP	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–
TNMG220408UP	TNMG432UP	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–



TNMM-MR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMM330924MR	TNMM666MR	19,05	3/4	33,00	1.299	2,4	3/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



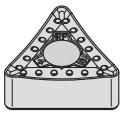


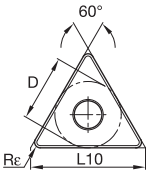
TNMM-RM

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMM160408RM	TNMM332RM	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM160412RM	TNMM333RM	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220408RM	TNMM432RM	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220412RM	TNMM433RM	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220416RM	TNMM434RM	12,70	1/2	22,00	.866	1,6	1/16	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM270612RM	TNMM543RM	15,88	5/8	27,50	1.083	1,2	3/64	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM270616RM	TNMM544RM	15,88	5/8	27,50	1.083	1,6	1/16	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

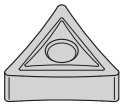
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

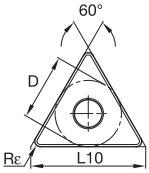




TNMM-RP

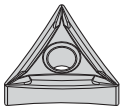
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMM220408RP	TNMM432RP	12,70	1/2	22,00	.866	0,8	1/32	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220412RP	TNMM433RP	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220416RP	TNMM434RP	12,70	1/2	22,00	.866	1,6	1/16	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

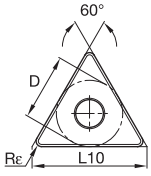




TNMP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMP160404	TNMP331	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
TNMP160408	TNMP332	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
TNMP220416	TNMP434	12,70	1/2	22,00	.866	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

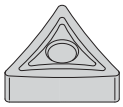


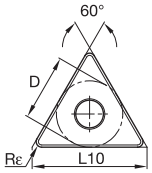


TNMP-K

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMP160404K	TNMP331K	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMP160408K	TNMP332K	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMP220408K	TNMP432K	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

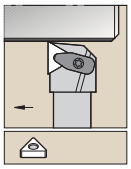


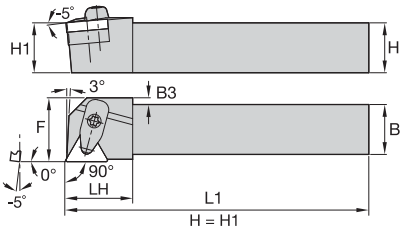


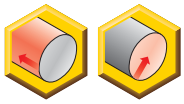
TNMS

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TNMS160404	TNMS331	9,53	3/8	16,50	.650	0,4	1/64
TNMS160408	TNMS332	9,53	3/8	16,50	.650	0,8	1/32
TNMS220408	TNMS432	12,70	1/2	22,00	.866	0,8	1/32

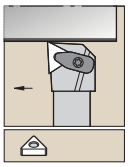


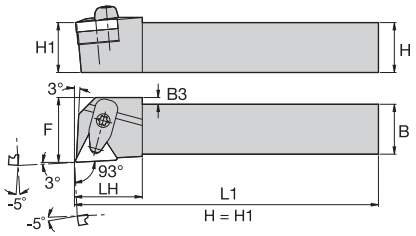


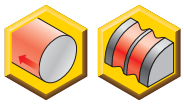


DTGN-KC 0°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
2273035	**DTGNR123BKC3**	.75	.75	1.000	4.50	1.12	.25	TN..332	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875152	**DTGNR164DKC3**	1.00	1.00	1.250	6.00	1.25	.09	TN..432	**ITSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
left hand														
2273038	**DTGNL163DKC3**	1.00	1.00	1.250	6.00	1.12	—	TN..332	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

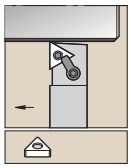


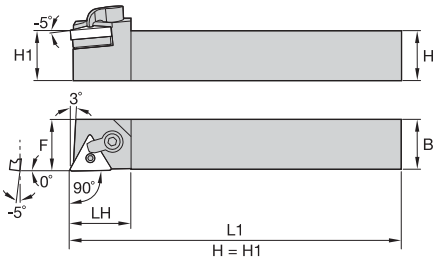


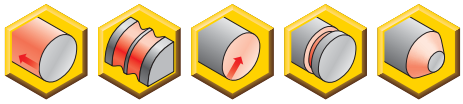


DTJN-KC -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
1893419	**DTJNR164DKC3**	1.00	1.00	1.250	6.00	1.25	.12	TN..432	**ITSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

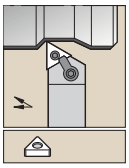


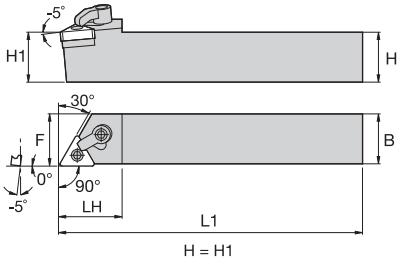




MTAN 0°

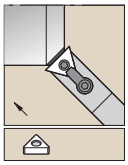
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096056	**MTANR082B**	.50	.50	.500	4.50	.96	TN..221	**–**	**KL23**	1/16	**CK19**	**STC9**	3/32
1096058	**MTANR103B**	.63	.63	.625	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096052	**MTANR123B**	.75	.75	.750	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096053	**MTANR164D**	1.00	1.00	1.000	6.00	1.21	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
left hand													
1096065	**MTANL103B**	.63	.63	.625	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096059	**MTANL123B**	.75	.75	.750	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096060	**MTANL164D**	1.00	1.00	1.000	6.00	1.21	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32

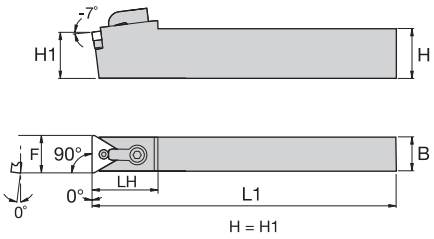




MTAN-S 0°

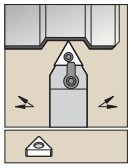
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1808498	MTANRS123	.75	.75	.750	4.50	1.12	TN..332	ITSN323	KL34L	5/64	CK6	STC5	3/32
1808499	MTANRS163	1.00	1.00	1.000	6.00	1.12	TN..332	ITSN323	KL34L	5/64	CK6	STC5	3/32
1808500	MTANRS164	1.00	1.00	1.000	6.00	1.21	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32
1808501	MTANRS205	1.25	1.25	1.250	6.00	1.46	TN..543	ITSN534	KL58	1/8	CK9	STC4	5/32
left hand													
1808452	MTANLS123	.75	.75	.750	4.50	1.12	TN..332	ITSN323	KL34L	5/64	CK6	STC5	3/32
1808493	MTANLS163	1.00	1.00	1.000	6.00	1.12	TN..332	ITSN323	KL34L	5/64	CK6	STC5	3/32
1808494	MTANLS164	1.00	1.00	1.000	6.00	1.21	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32
1808495	MTANLS205	1.25	1.25	1.250	6.00	1.46	TN..543	ITSN534	KL58	1/8	CK9	STC4	5/32

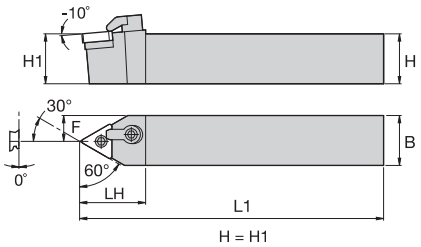


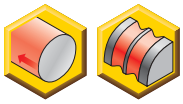


MTCN 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096318	MTCNN083	.50	.50	.542	4.50	1.13	TN..332	ITSN323	KL34L	5/64	CK7	STC9	3/32
1096320	MTCNN443	1.00	.50	.542	8.00	1.13	TN..332	ITSN323	KL34L	5/64	CK7	STC9	3/32
1096319	MTCNN124	.75	.75	.775	6.00	1.43	TN..432	ITSN433	KL46	3/32	CK12	STC4	5/32
1096321	MTCNN644	1.00	.75	.775	8.00	1.43	TN..432	ITSN433	KL46	3/32	CK12	STC4	5/32

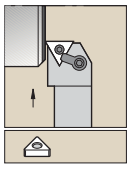


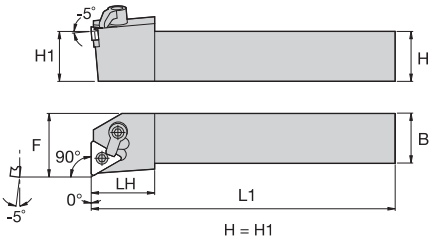




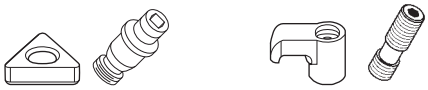
MTEN-S 30°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096350	**MTENNS082**	.50	.50	.250	4.50	.99	TN..221	**—**	**KL23**	1/16	**CK6**	**STC5**	3/32
1096351	**MTENNS103**	.63	.63	.312	4.50	1.16	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096352	**MTENNS123**	.75	.75	.375	4.50	1.16	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096353	**MTENNS163**	1.00	1.00	.500	5.00	1.16	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096354	**MTENNS164**	1.00	1.00	.500	6.00	1.40	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808504	**MTENNS854**	1.25	1.00	.500	6.00	1.41	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096355	**MTENNS205**	1.25	1.25	.625	6.00	1.64	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096356	**MTENNS246**	1.50	1.50	.750	7.00	1.95	TN..663	**ITSN636**	**KL68L**	9/64	**CK12**	**STC4**	5/32

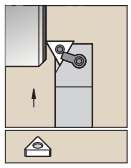


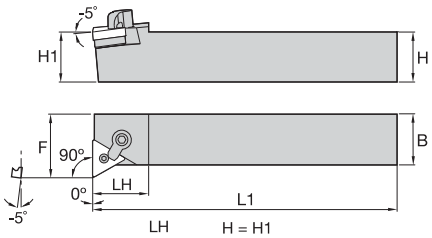


MTFN 0°



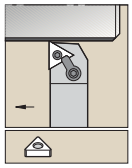
order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096212	**MTFNR123B**	.75	.75	1.000	4.50	.94	—	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096216	**MTFNR164C**	1.00	1.00	1.250	5.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096217	**MTFNR164D**	1.00	1.00	1.250	6.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096218	**MTFNR204D**	1.25	1.25	1.500	6.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096219	**MTFNR205D**	1.25	1.25	1.500	6.00	1.43	—	TN..432	**ITSN534**	**KL58**	3/32	**CK12**	**STC4**	5/32
1096221	**MTFNR246E**	1.50	1.50	2.000	7.00	1.50	—	TN..663	**ITSN636**	**KL68L**	9/64	**CK12**	**STC4**	5/32
left hand														
1096226	**MTFNL123B**	.75	.75	1.000	4.50	.94	—	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096230	**MTFNL164C**	1.00	1.00	1.250	5.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096231	**MTFNL164D**	1.00	1.00	1.250	6.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096232	**MTFNL204D**	1.25	1.25	1.500	6.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1863297	**MTFNL854D**	1.25	1.00	1.250	6.00	1.22	—	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096234	**MTFNL245D**	1.50	1.50	2.000	6.00	1.43	.25	TN..543	**ITSN534**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096235	**MTFNL246E**	1.50	1.50	2.000	7.00	1.50	—	TN..663	**ITSN636**	**KL68L**	9/64	**CK12**	**STC4**	5/32

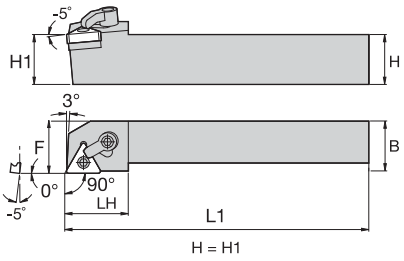


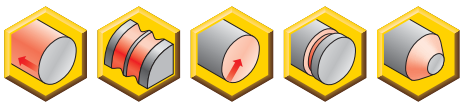


MTFN-S 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1808512	MTFNRS164	1.00	1.00	1.250	6.00	1.22	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32
left hand													
1808506	MTFNLS164	1.00	1.00	1.250	6.00	1.22	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32

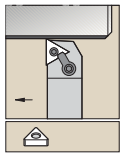


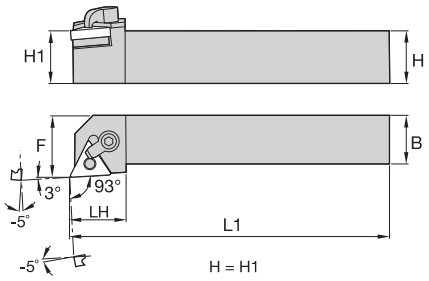


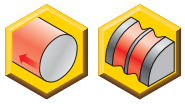


MTGN 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096197	MTGNR082B	.50	.50	.625	4.50	.96	TN..221	–	KL23	1/16	CK19	STC9	3/32
1096199	MTGNR103B	.63	.63	.875	4.50	1.12	TN..322	ITSN333	KL34L	5/64	CK6	STC5	3/32
1096188	MTGNR123B	.75	.75	1.000	4.50	1.12	TN..332	ITSN323	KL34L	5/64	CK6	STC5	3/32
1096189	MTGNR124B	.75	.75	1.000	4.50	1.20	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32
1096192	MTGNR164C	1.00	1.00	1.250	5.00	1.20	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32
1808515	MTGNR165C	1.00	1.00	1.250	5.00	1.38	TN..543	ITSN534	KL58	1/8	CK9	STC4	5/32
1096193	MTGNR164D	1.00	1.00	1.250	6.00	1.20	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32
1096194	MTGNR204D	1.25	1.25	1.500	6.00	1.20	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32
1096195	MTGNR205D	1.25	1.25	1.500	6.00	1.44	TN..543	ITSN534	KL58	1/8	CK9	STC4	5/32
left hand													
1096211	MTGNL103B	.63	.63	.875	4.50	1.12	TN..322	ITSN333	KL34L	5/64	CK6	STC5	3/32
1096200	MTGNL123B	.75	.75	1.000	4.50	1.12	TN..332	ITSN323	KL34L	5/64	CK6	STC5	3/32
1096201	MTGNL124B	.75	.75	1.000	4.50	1.20	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32
1096204	MTGNL164C	1.00	1.00	1.250	5.00	1.20	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32
1096205	MTGNL164D	1.00	1.00	1.250	6.00	1.20	TN..432	ITSN433	KL46	3/32	CK6	STC4	5/32
1096206	MTGNL204D	1.25	1.25	1.500	6.00	1.20	TN..432	ITSN433	KL46	3/32	CK9	STC4	5/32
1096207	MTGNL205D	1.25	1.25	1.500	6.00	1.44	TN..543	ITSN534	KL58	1/8	CK9	STC4	5/32

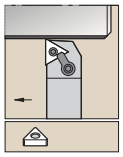


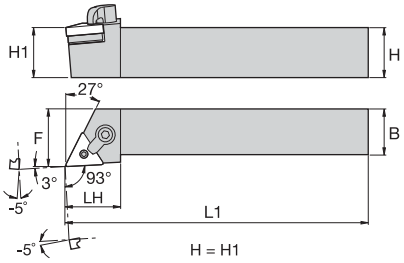


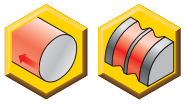


MTJN -3°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096008	**MTJNR082B**	.50	.50	.625	4.50	.72	TN..221	**–**	**KL23**	1/16	**CK19**	**STC9**	3/32
1096012	**MTJNR103B**	.63	.63	.875	4.50	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096014	**MTJNR123B**	.75	.75	1.000	4.50	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096016	**MTJNR163C**	1.00	1.00	1.250	5.00	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096018	**MTJNR163D**	1.00	1.00	1.250	6.00	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096022	**MTJNR164D**	1.00	1.00	1.250	6.00	1.12	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096024	**MTJNR204D**	1.25	1.25	1.500	6.00	1.12	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096026	**MTJNR205D**	1.25	1.25	1.500	6.00	1.25	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
left hand													
1096009	**MTJNL082B**	.50	.50	.625	4.50	.72	TN..221	**–**	**KL23**	1/16	**CK19**	**STC9**	3/32
1096013	**MTJNL103B**	.63	.63	.875	4.50	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096015	**MTJNL123B**	.75	.75	1.000	4.50	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096017	**MTJNL163C**	1.00	1.00	1.250	5.00	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096019	**MTJNL163D**	1.00	1.00	1.250	6.00	.88	TN..322	**ITSN333**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096023	**MTJNL164D**	1.00	1.00	1.250	6.00	1.12	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096025	**MTJNL204D**	1.25	1.25	1.500	6.00	1.12	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096027	**MTJNL205D**	1.25	1.25	1.500	6.00	1.23	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32

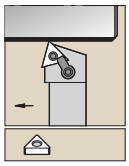


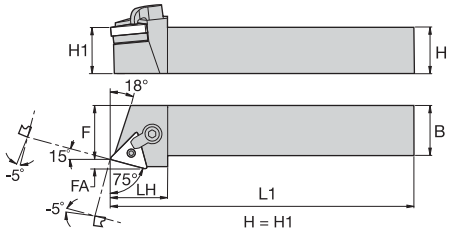


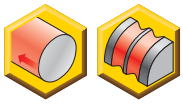


MTJN-S -3°

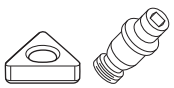
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096336	**MTJNRS123**	.75	.75	1.000	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096338	**MTJNRS163**	1.00	1.00	1.250	6.00	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096341	**MTJNRS204**	1.25	1.25	1.250	6.00	1.19	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096337	**MTJNRS124**	.75	.75	1.000	4.50	1.19	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1808522	**MTJNRS864**	1.50	1.00	1.250	6.00	1.19	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096339	**MTJNRS164**	1.00	1.00	1.250	6.00	1.32	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096340	**MTJNRS165**	1.00	1.00	1.250	6.00	1.44	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096342	**MTJNRS205**	1.25	1.25	1.500	6.00	1.44	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
1808518	**MTJNRS246**	1.50	1.50	2.000	7.00	1.63	TN..663	**ITSN636**	**KL68L**	9/64	**CK12**	**STC4**	5/32
left hand													
1096343	**MTJNLS123**	.75	.75	1.000	4.50	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096345	**MTJNLS163**	1.00	1.00	1.250	6.00	1.12	TN..332	**ITSN323**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096348	**MTJNLS204**	1.25	1.25	1.250	6.00	1.19	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096344	**MTJNLS124**	.75	.75	1.000	4.50	1.19	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096346	**MTJNLS164**	1.00	1.00	1.250	6.00	1.32	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096347	**MTJNLS165**	1.00	1.00	1.250	6.00	1.44	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
1096349	**MTJNLS205**	1.25	1.25	1.500	6.00	1.44	TN..543	**ITSN534**	**KL58**	1/8	**CK9**	**STC4**	5/32
1808516	**MTJNLS246**	1.50	1.50	2.000	7.00	1.63	TN..663	**ITSN636**	**KL68L**	9/64	**CK12**	**STC4**	5/32

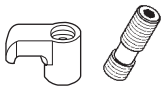






MTRN 15°

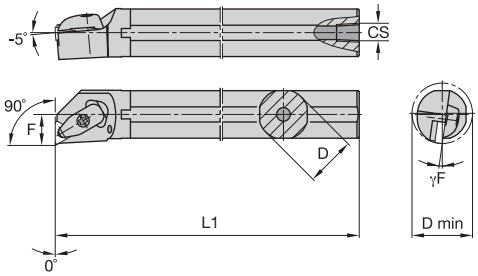




order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096324	**MTRNR164D**	1.00	1.00	1.040	6.00	1.24	.20	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32

Kenclamp™ Boring Bars

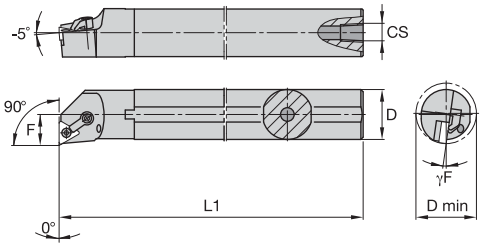
Steel shank with through coolant.



A-DTFN-KC 0°

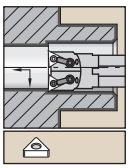
order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	clamp assembly	slotted pin	Torx Plus
right hand											
2408469	**A16TDTFNR3KC3**	1.000	1.200	.640	12.00	1/4-18 NPT	-12.0	TN..332	**CM234RLP ASSY**	**SSP025016M**	9 IP

Steel shank with through coolant.

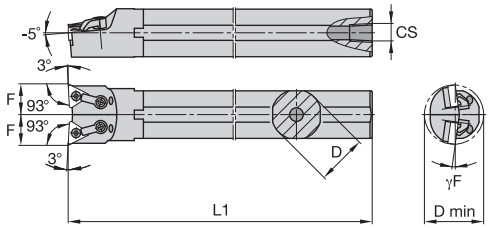


A-MTFN 0°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096385	**A16MTFNR3**	1.000	1.220	.640	12.00	1/4-18 NPT	-12.0	TN..332	**–**	**KL33L**	5/64	**CK7**	**STC9**	3/32
1096386	**A20UMTFNR3**	1.250	1.470	.765	14.00	1/4-18 NPT	-12.0	TN..332	**–**	**KL33L**	5/64	**CK7**	**STC9**	3/32
1096387	**A24UMTFNR3**	1.500	1.760	–	14.00	1/4-18 NPT	-10.0	TN..332	**ITSN323**	**KL34L**	5/64	**CK7**	**STC9**	3/32
1096389	**A24UMTFNR4**	1.500	1.760	.890	14.00	1/4-18 NPT	-10.0	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096388	**A28MTFNR3**	1.750	2.010	1.015	14.00	1/4-18 NPT	-10.0	TN..332	**ITSN323**	**KL34L**	5/64	**CK7**	**STC9**	3/32
1096390	**A28MTFNR4**	1.750	2.010	1.015	14.00	1/4-18 NPT	-10.0	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1096391	**A32MTFNR4**	2.000	2.400	1.281	16.00	1/4-18 NPT	-8.0	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
left hand														
1096394	**A16MTFNL3**	1.000	1.220	.640	12.00	1/4-18 NPT	-12.0	TN..332	**–**	**KL33L**	5/64	**CK7**	**STC9**	3/32

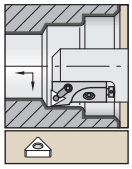


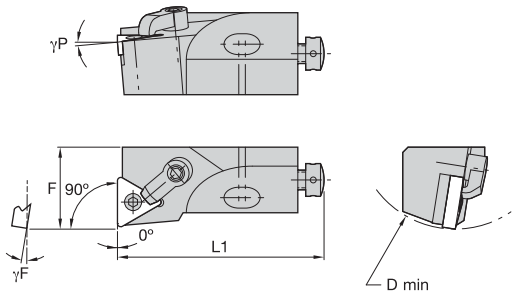
Steel shank with through coolant.



A-MTUN-D -3°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	lock pin	hex	clamp	clamp screw	hex
1096381	**A20MTUNR3D**	1.250	1.550	.765	14.00	1/4-18 NPT	-10.0	TN..332	**KL33L**	5/64	**CK7**	**STC9**	3/32



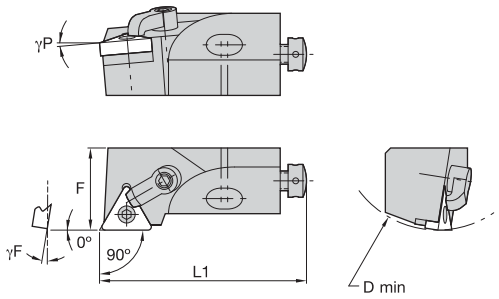


MTFN 0°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
2078236	**MTFNR12CA3**	1.969	.787	2.17	-9.0	-5.0	TN..160408/TN..332
2074429	**MTFNR16CA3**	2.362	.984	2.48	-9.0	-5.0	TN..160408/TN..332
3330208	**MTFNR20CA4**	2.756	.984	2.76	-9.0	-5.0	TN..220408/TN..432
left hand							
2057426	**MTFNL12CA3**	1.969	.787	2.17	-9.0	-5.0	TN..160408/TN..332
2193621	**MTFNL16CA3**	2.362	.984	2.48	-9.0	-5.0	TN..160408/TN..332
3330207	**MTFNL20CA4**	2.756	.984	2.76	-9.0	-5.0	TN..220408/TN..432

Spare Parts

D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**ITSN322**	**KLM34L**	2 mm	**CKM34**	**STCM9**	2 mm	**KUAM25**	2 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
2.756	**ITSN433**	**KLM46**	2.5 mm	**CKM35**	**STCM37**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

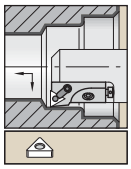


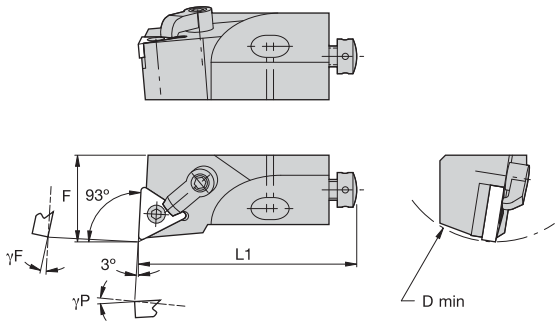
MTGN 0°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
2114041	**MTGNR12CA3**	1.969	.787	2.17	-9.0	-5.0	TN..160408/TN..332
3330285	**MTGNR16CA3**	2.362	.984	2.48	-9.0	-5.0	TN..160408/TN..332
left hand							
3346275	**MTGNL12CA3**	1.969	.787	2.17	-9.0	-5.0	TN..160408/TN..332
3330209	**MTGNL20CA4**	2.756	.984	2.76	-9.0	-5.0	TN..220408/TN..432

Spare Parts

D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**ITSN322**	**KLM34L**	2 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
2.756	**ITSN433**	**KLM46**	2.5 mm	**CKM35**	**STCM37**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**



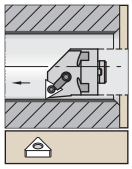


MTUN -3°

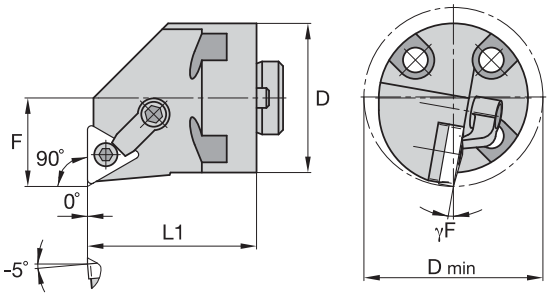
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098536	**MTUNR20CA4**	2.756	.984	2.76	-9.0	-5.0	TN..220408/TN..432
left hand							
1098529	**MTUNL12CA3**	1.969	.787	2.17	-9.0	-5.0	TN..160408/TN..332
1098535	**MTUNL16CA3**	2.362	.984	2.48	-9.0	-5.0	TN..160408/TN..332

Spare Parts

D min	shim	lock pin	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	—	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**ITSN322**	**KLM34L**	2 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
2.756	**ITSN433**	**KLM46**	—	**CKM35**	**STCM37**	2.5 mm	**KUAM25**	2.5 mm	**KUAM33**	**191.407**	5 mm	**CSWM 080 050**



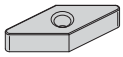
With through coolant.

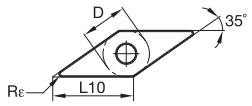


H-MTFN 0°

order number	catalog number	D	D min	F	L1	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1095313	**H20MTFNR3**	1.250	1.470	.765	1.63	-12.0	TN..332	**–**	**KL33L**	5/64	**CK7**	**STC9**	3/32
1095361	**H24MTFNR3**	1.500	1.760	.890	1.63	-10.0	TN..332	**ITSN323**	**KL34L**	5/64	**CK7**	**STC9**	3/32
1095417	**H28MTFNR3**	1.750	2.010	1.015	1.63	-10.0	TN..332	**ITSN323**	**KL34L**	5/64	**CK7**	**STC9**	3/32
1095514	**H32MTFNR4**	2.000	2.400	1.281	1.63	-8.0	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32
1095573	**H40MTFNR4**	2.500	3.030	1.531	1.63	-6.0	TN..432	**ITSN433**	**KL46**	3/32	**CK9**	**STC4**	5/32

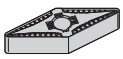
● first choice
○ alternate choice

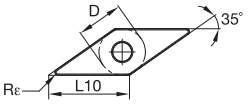




VNGA

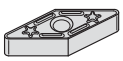
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGA160404	VNGA331	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNGA160408	VNGA332	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

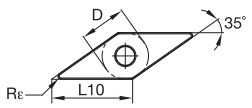




VNGG-FS

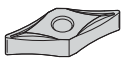
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGG160401FS	VNGG330FS	9,53	3/8	16,61	.654	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
VNGG160402FS	VNGG3305FS	9,53	3/8	16,61	.654	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
VNGG160404FS	VNGG331FS	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
VNGG160408FS	VNGG332FS	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–

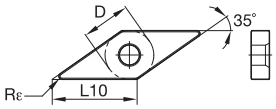




VNGG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGG160402LF	VNGG3305LF	9,53	3/8	16,61	.654	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
VNGG160404LF	VNGG331LF	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
VNGG160408LF	VNGG332LF	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–
VNGG220408LF	VNGG432LF	12,70	1/2	22,14	.872	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–

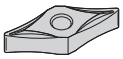


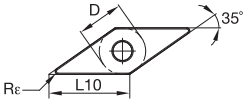


VNGP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGP160401	VNGP330	9,53	3/8	16,61	.654	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
VNGP160402	VNGP3305	9,53	3/8	16,61	.654	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
VNGP220404	VNGP431	12,70	1/2	22,14	.872	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
VNGP220408	VNGP432	12,70	1/2	22,14	.872	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–

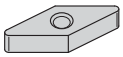
● first choice
○ alternate choice

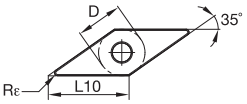




VNGP-K

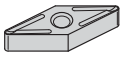
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNGP160404K	VNGP331K	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
VNGP160408K	VNGP332K	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
VPGP443K	VPGP443K	12,70	1/2	22,14	.872	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

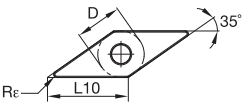




VNMA

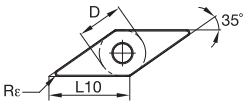
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMA160408	VNMA332	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





VNMG

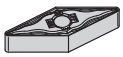
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408	VNMG332	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMG160412	VNMG333	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMG220408	VNMG432	12,70	1/2	22,14	.872	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMG220412	VNMG433	12,70	1/2	22,14	.872	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

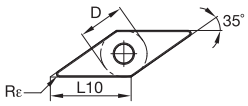


VNMG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408LF	VNMG332LF	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220404LF	VNMG431LF	12,70	1/2	22,14	.872	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220408LF	VNMG432LF	12,70	1/2	22,14	.872	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

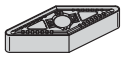
● first choice
○ alternate choice

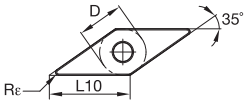




VNMG-FF

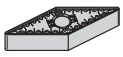
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404FF	VNMG331FF	9,53	3/8	16,61	.654	0,4	1/64	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
VNMG160408FF	VNMG332FF	9,53	3/8	16,61	.654	0,8	1/32	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●

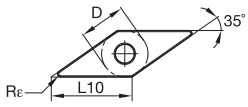




VNMG-FN

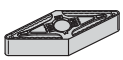
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404FN	VNMG331FN	9,53	3/8	16,61	.654	0,4	1/64	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
VNMG160408FN	VNMG332FN	9,53	3/8	16,61	.654	0,8	1/32	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

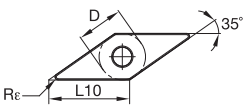




VNMG-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404FP	VNMG331FP	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
VNMG160408FP	VNMG332FP	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●





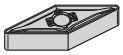
VNMG-MN

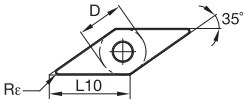
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404MN	VNMG331MN	9,53	3/8	16,61	.654	0,4	1/64	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160408MN	VNMG332MN	9,53	3/8	16,61	.654	0,8	1/32	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160412MN	VNMG333MN	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

● first choice
○ alternate choice

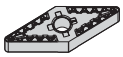
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

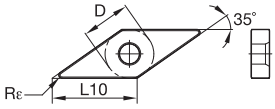




VNMG-MP

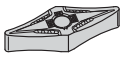
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404MP	VNMG331MP	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	–	●	–	–	–
VNMG160408MP	VNMG332MP	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	–	●	–	–	–
VNMG160412MP	VNMG333MP	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	–

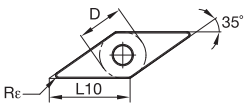




VNMG-MR

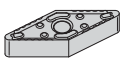
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160412MR	VNMG333MR	9,52	3/8	16,61	.654	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160408MR	VNMG332MR	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–

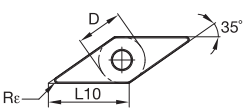




VNMG-MS

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160401MS	VNMG330MS	9,53	3/8	16,61	.654	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
VNMG160402MS	VNMG3305MS	9,53	3/8	16,61	.654	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
VNMG160404MS	VNMG331MS	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
VNMG160408MS	VNMG332MS	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
VNMG220404MS	VNMG431MS	12,70	1/2	22,14	.872	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
VNMG220408MS	VNMG432MS	12,70	1/2	22,14	.872	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–

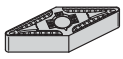


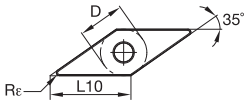


VNMG-P

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404P	VNMG331P	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
VNMG160408P	VNMG332P	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–

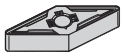
● first choice
○ alternate choice

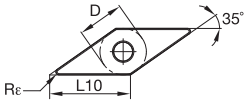




VNMG-RN

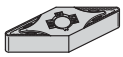
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P								●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M																○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K								○	○	○	○	○	○					●	●	●	●	●	●								●	●	●	●	●	●		●
N																															●	●	●	●	●	●	●	
S																															●	●	●	●	●	●		
H																																						
VNMG160408RN	VNMG332RN	9,53	3/8	16,61	.654	0,8	1/32	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160412RN	VNMG333RN	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220408RN	VNMG432RN	12,70	1/2	22,14	.872	0,8	1/32	–	–	●	●	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220412RN	VNMG433RN	12,70	1/2	22,14	.872	1,2	3/64	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

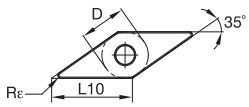




VNMG-RP

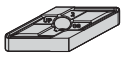
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408RP	VNMG332RP	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	●	●	–	–	–	●	–	–	–	–	–	–	●	●	–	●	–	–
VNMG160412RP	VNMG333RP	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	●	–	●	–	–	–	–	–	–	●	●	–	●	–	–	–	–	●	–	–	–	–	●	●	–	–	–	–

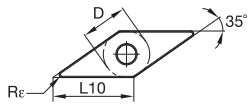




VNMG-UN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404UN	VNMG331UN	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160408UN	VNMG332UN	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



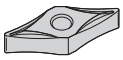


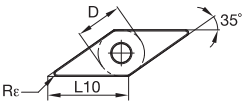
VNMG-UP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404UP	VNMG331UP	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–
VNMG160408UP	VNMG332UP	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	–	●	–	–	–
VNMG160412UP	VNMG333UP	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

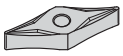
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

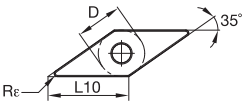




VNMP

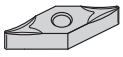
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMP160404	VNMP331	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–
VNMP160408	VNMP332	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–

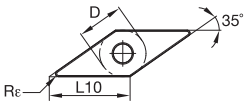




VNMP-K

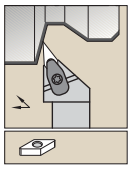
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMP160404K	VNMP331K	9,53	3/8	16,61	.654	0,4	1/64	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMP160408K	VNMP332K	9,53	3/8	16,61	.654	0,8	1/32	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

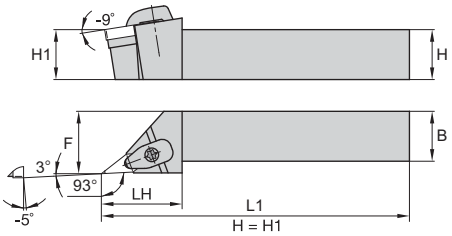


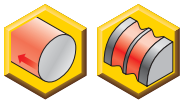


VNMS

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMS160404	VNMS331	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
VNMS160408	VNMS332	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

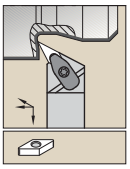


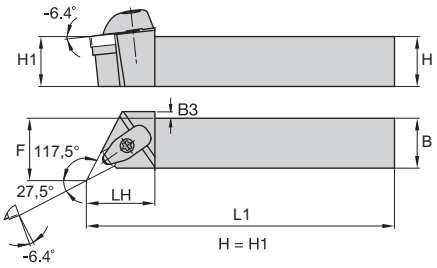




DVJN-KC -3°

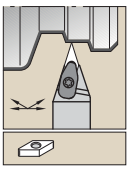
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand													
2503996	**DVJNR123CKC3**	.75	.75	1.000	5.00	1.82	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**
2503998	**DVJNR163DKC3**	1.00	1.00	1.250	6.00	1.82	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**
2504000	**DVJNR853DKC3**	1.25	1.00	1.250	6.00	1.82	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**
2504002	**DVJNR164DKC3**	1.00	1.00	1.250	6.00	2.15	VN..432	**IVSN432**	**KMSP415IP**	15 IP	**CM235R ASSY**	15 IP	**SSP025016M**
2504004	**DVJNR854DKC3**	1.25	1.00	1.250	6.00	2.15	VN..432	**IVSN432**	**KMSP415IP**	15 IP	**CM235R ASSY**	15 IP	**SSP025016M**
left hand													
2503997	**DVJNL123CKC3**	.75	.75	1.000	5.00	1.82	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**
2503999	**DVJNL163DKC3**	1.00	1.00	1.250	6.00	1.82	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**
2504001	**DVJNL853DKC3**	1.25	1.00	1.250	6.00	1.82	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**
2504003	**DVJNL164DKC3**	1.00	1.00	1.250	6.00	2.15	VN..432	**IVSN432**	**KMSP415IP**	15 IP	**CM235R ASSY**	15 IP	**SSP025016M**
2504005	**DVJNL854DKC3**	1.25	1.00	1.250	6.00	2.15	VN..432	**IVSN432**	**KMSP415IP**	15 IP	**CM235R ASSY**	15 IP	**SSP025016M**

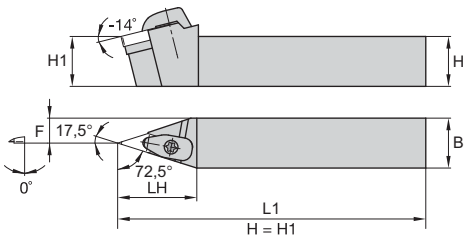




DVON-KC -117.5°

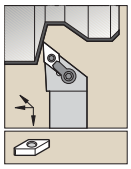
order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
2504006	DVONR123CKC3	.75	.75	1.000	5.00	1.50	.25	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504008	DVONR163DKC3	1.00	1.00	1.250	6.00	1.47	—	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504010	DVONR853DKC3	1.25	1.00	1.250	6.00	1.47	—	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
left hand														
2504007	DVONL123CKC3	.75	.75	1.000	5.00	1.50	.25	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504009	DVONL163DKC3	1.00	1.00	1.250	6.00	1.47	—	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504011	DVONL853DKC3	1.25	1.00	1.250	6.00	1.47	—	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M

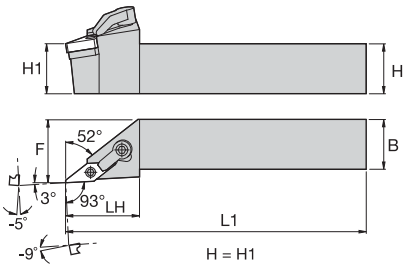


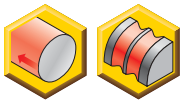


DVVN-KC 17.5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
2504012	DVVNN123CKC3	.75	.75	.371	5.00	1.94	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504013	DVVNN163DKC3	1.00	1.00	.496	6.00	1.97	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504014	DVVNN853DKC3	1.25	1.00	.496	6.00	1.88	VN..332	IVSN322	KMSP315IP	15 IP	CM215R ASSY	15 IP	SSP025016M
2504015	DVVNN164DKC3	1.00	1.00	.496	6.00	2.28	VN..432	IVSN432	KMSP415IP	15 IP	CM235R ASSY	15 IP	SSP025016M

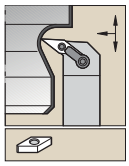


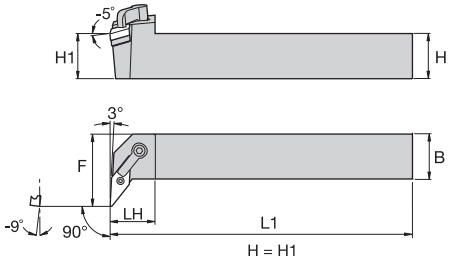




MVJN -3°

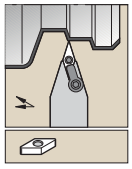
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1863299	**MVJNR123A**	.75	.75	1.000	4.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096286	**MVJNR123B**	.75	.75	1.000	4.50	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096288	**MVJNR163C**	1.00	1.00	1.250	5.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096289	**MVJNR163D**	1.00	1.00	1.250	6.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096292	**MVJNR203D**	1.25	1.25	1.500	6.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1808563	**MVJNR243D**	1.50	1.50	2.000	6.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096287	**MVJNR124B**	.75	.75	1.000	4.50	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096290	**MVJNR164C**	1.00	1.00	1.250	5.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096291	**MVJNR164D**	1.00	1.00	1.250	6.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096293	**MVJNR204D**	1.25	1.25	1.500	6.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096294	**MVJNR244D**	1.50	1.50	2.000	6.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
left hand													
1808550	**MVJNL123A**	.75	.75	1.000	4.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096295	**MVJNL123B**	.75	.75	1.000	4.50	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096297	**MVJNL163C**	1.00	1.00	1.250	5.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096298	**MVJNL163D**	1.00	1.00	1.250	6.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096301	**MVJNL203D**	1.25	1.25	1.500	6.00	1.66	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096299	**MVJNL164C**	1.00	1.00	1.250	5.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096300	**MVJNL164D**	1.00	1.00	1.250	6.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096302	**MVJNL204D**	1.25	1.25	1.500	6.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096303	**MVJNL244D**	1.50	1.50	2.000	6.00	2.00	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32

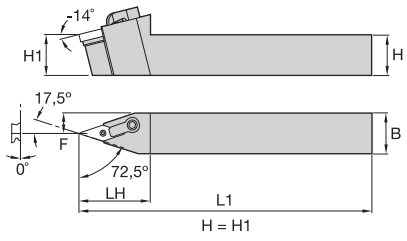




MVUN -3°

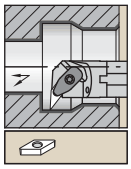
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1863302	**MVUNR204C**	1.25	1.25	2.000	5.00	1.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1808556	**MVUNR204D**	1.25	1.25	2.000	6.00	1.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1808555	**MVUNR244D**	1.50	1.50	2.250	6.00	1.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
left hand													
1808557	**MVUNL204D**	1.25	1.25	2.000	6.00	1.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1843889	**MVUNL244D**	1.50	1.50	2.250	6.00	1.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32



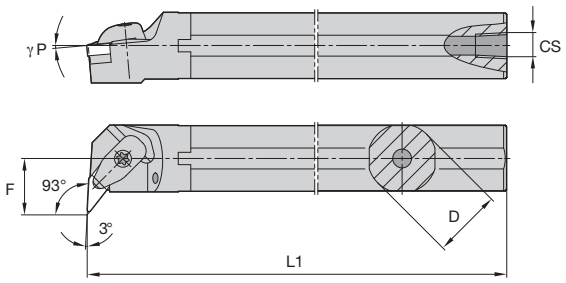


MVVN 17.5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
1096002	**MVVNN123B**	.75	.75	.375	4.50	1.77	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096003	**MVVNN163C**	1.00	1.00	.500	5.00	1.77	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096004	**MVVNN163D**	1.00	1.00	.500	6.00	1.77	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096006	**MVVNN203D**	1.25	1.25	.625	6.00	1.77	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096005	**MVVNN164D**	1.00	1.00	.500	6.00	2.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1096007	**MVVNN204D**	1.25	1.25	.625	6.00	2.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1808554	**MVVNN244E**	1.50	1.50	.750	7.00	2.25	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32



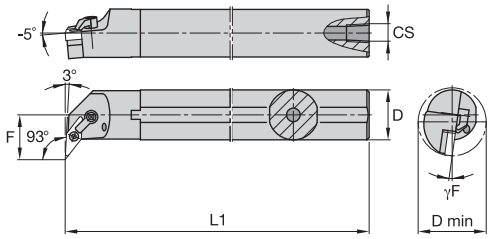
Steel shank with through coolant.



A-DVU-KC 3°

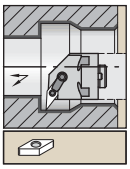
order number	catalog number	D	D min	F	L1	CS	γP°	γF°	gage insert	shim	shim screw	Torx Plus	clamp assembly	slotted pin	Torx Plus
right hand															
2659293	**A20UDVUNR3KC3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-5.0	-9.0	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2659295	**A24UDVUNR3KC3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-5.0	-8.0	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	**SSP025016M**	15 IP
left hand															
2659294	**A24UDVUNL3KC3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-5.0	-8.0	VN..332	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	**SSP025016M**	15 IP

Steel shank with through coolant.

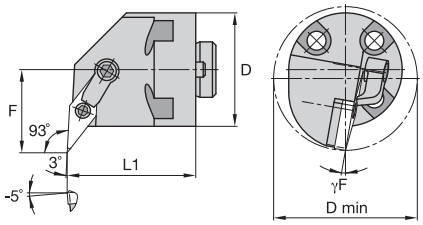


A-MVUN -3°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand														
1096466	**A20UMVUNR3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096467	**A24UMVUNR3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1808226	**A32MVUNR4**	2.000	2.500	1.325	16.00	1/4-18 NPT	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1808230	**A40MVUNR4**	2.500	3.250	1.750	16.00	1/4-18 NPT	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
left hand														
1096468	**A20UMVUNL3**	1.250	1.705	1.000	14.00	1/4-18 NPT	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1096469	**A24UMVUNL3**	1.500	2.000	1.125	14.00	1/4-18 NPT	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK43**	**STC4**	5/32
1808225	**A32MVUNL4**	2.000	2.500	1.325	16.00	1/4-18 NPT	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
1808229	**A40MVUNL4**	2.500	3.250	1.750	16.00	1/4-18 NPT	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32



With through coolant.

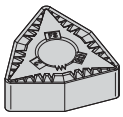


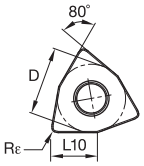
H-MVUN -3°

order number	catalog number	D	D min	F	L1	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1095317	**H20MVUNR3**	1.250	1.705	1.000	1.63	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
1095365	**H24MVUNR3**	1.500	2.000	1.125	1.63	-10.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
2384979	**H32MVUNR3**	2.000	2.650	1.325	1.63	-10.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
1095461	**H32MVUNR4**	2.000	2.500	1.375	1.63	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
2384977	**H40MVUNR3**	2.500	3.250	1.750	1.63	-10.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
1095538	**H40MVUNR4**	2.500	3.250	1.750	1.63	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
left hand													
1095318	**H20MVUNL3**	1.250	1.705	1.000	1.63	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
1095366	**H24MVUNL3**	1.500	2.000	1.125	1.63	-12.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
2384980	**H32MVUNL3**	2.000	2.650	1.325	1.63	-10.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
1095515	**H32MVUNL4**	2.000	2.500	1.375	1.63	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32
2384978	**H40MVUNL3**	2.500	3.250	1.750	1.63	-10.0	VN..332	**IVSN322**	**KL34L**	5/64	**CK22**	**STC20**	1/8
1095539	**H40MVUNL4**	2.500	3.250	1.750	1.63	-10.0	VN..432	**IVSN433**	**KL46**	3/32	**CK43**	**STC4**	5/32

● first choice
○ alternate choice

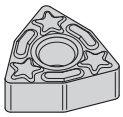
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

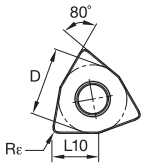




WNGG-FS

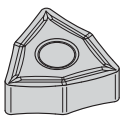
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNGG080404FS	WNGG431FS	12,70	1/2	8,69	.342	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
WNGG080408FS	WNGG432FS	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

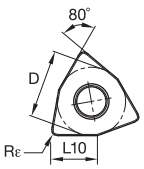




WNGG-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNGG080401LF	WNGG430LF	12,70	1/2	8,69	.342	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
WNGG080402LF	WNGG4305LF	12,70	1/2	8,69	.342	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNGG080404LF	WNGG431LF	12,70	1/2	8,69	.342	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNGG080408LF	WNGG432LF	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–



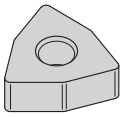


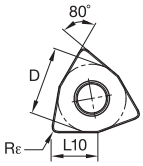
WNGP-K

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNGP080408K	WNGP432K	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–

● first choice
○ alternate choice

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

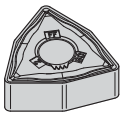


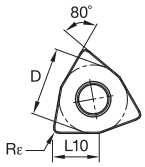


WNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
WNMA060408	WNMA332	9,53	3/8	6,52	.257	0,8	1/32
WNMA060412	WNMA333	9,53	3/8	6,52	.257	1,2	3/64
WNMA080408	WNMA432	12,70	1/2	8,69	.342	0,8	1/32
WNMA080412	WNMA433	12,70	1/2	8,69	.342	1,2	3/64
WNMA080416	WNMA434	12,70	1/2	8,69	.342	1,6	1/16

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMA060408	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA060412	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA080408	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA080412	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA080416	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

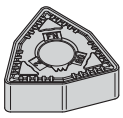


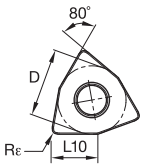


WNMG-FF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
WNMG060404FF	WNMG331FF	9,53	3/8	6,52	.257	0,4	1/64
WNMG060408FF	WNMG332FF	9,53	3/8	6,52	.257	0,8	1/32
WNMG080404FF	WNMG431FF	12,70	1/2	8,69	.342	0,4	1/64
WNMG080408FF	WNMG432FF	12,70	1/2	8,69	.342	0,8	1/32

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404FF	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
WNMG060408FF	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●
WNMG080404FF	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080408FF	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–



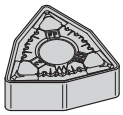


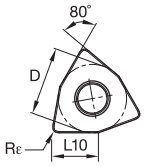
WNMG-FN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
WNMG060404FN	WNMG331FN	9,53	3/8	6,52	.257	0,4	1/64
WNMG060408FN	WNMG332FN	9,53	3/8	6,52	.257	0,8	1/32
WNMG080404FN	WNMG431FN	12,70	1/2	8,69	.342	0,4	1/64
WNMG080408FN	WNMG432FN	12,70	1/2	8,69	.342	0,8	1/32

ISO catalog number	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404FN	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
WNMG060408FN	–	–	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
WNMG080404FN	–	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
WNMG080408FN	–	●	●	●	●	●	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

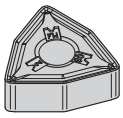
● first choice
○ alternate choice

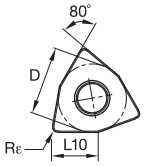




WNMG-FP

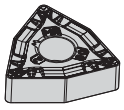
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
								P	P	P	P	P	P	P	P	P	P	P	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
								M								○	○							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
								K	○	○	○	○	○	○					●	●	●	●	●	●								●	●	●	●	●	●	●	●
								N																							●	●	●	●	●	●	●	
								S																							●	●	●	●	●	●		
								H																														
WNMG060404FP	WNMG331FP	9,53	3/8	6,52	.257	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG060408FP	WNMG332FP	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–
WNMG080404FP	WNMG431FP	12,70	1/2	8,69	.342	0,4	1/64	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080408FP	WNMG432FP	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080412FP	WNMG433FP	12,70	1/2	8,69	.342	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–

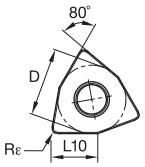




WNMG-FW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
								P	P	P	P	P	P	P	P	P	P	P	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
								M								○	○							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
								K	○	○	○	○	○	○					●	●	●	●	●	●								●	●	●	●	●	●	●	●
								N																							●	●	●	●	●	●	●	
								S																							●	●	●	●	●	●		
								H																														
WNMG060404FW	WNMG331FW	9,53	3/8	6,52	.257	0,4	1/64	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
WNMG060408FW	WNMG332FW	9,53	3/8	6,52	.257	0,8	1/32	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
WNMG060412FW	WNMG333FW	9,53	3/8	6,52	.257	1,2	3/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080404FW	WNMG431FW	12,70	1/2	8,69	.342	0,4	1/64	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	●
WNMG080408FW	WNMG432FW	12,70	1/2	8,69	.342	0,8	1/32	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
WNMG080412FW	WNMG433FW	12,70	1/2	8,69	.342	1,2	3/64	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



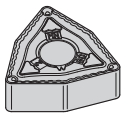


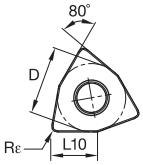
WNMG-MG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
								P	P	P	P	P	P	P	P	P	P	P	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●
								M								○	○							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
								K	○	○	○	○	○	○					●	●	●	●	●	●								●	●	●	●	●	●	●	●
								N																							●	●	●	●	●	●	●	
								S																							●	●	●	●	●	●		
								H																														
WNMG080408MG	WNMG432MG	12,70	1/2	8,69	.342	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

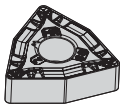
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

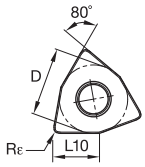




WNMG-MN

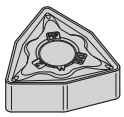
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404MN	WNMG331MN	9,53	3/8	6,52	.257	0,4	1/64	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG060408MN	WNMG332MN	9,53	3/8	6,52	.257	0,8	1/32	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG060412MN	WNMG333MN	9,53	3/8	6,52	.257	1,2	3/64	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MN	WNMG432MN	12,70	1/2	8,69	.342	0,8	1/32	–	●	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080412MN	WNMG433MN	12,70	1/2	8,69	.342	1,2	3/64	–	–	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080416MN	WNMG434MN	12,70	1/2	8,69	.342	1,6	1/16	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

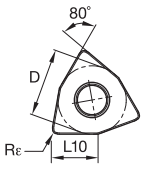




WNMG-MR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408MR	WNMG332MR	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MR	WNMG432MR	12,70	1/2	8,69	.342	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	●	●	–	●	●	–	–	●	–	–	–	–	–
WNMG080412MR	WNMG433MR	12,70	1/2	8,69	.342	1,2	3/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	●	–	–	–	–	–	–	–	–
WNMG080416MR	WNMG434MR	12,70	1/2	8,69	.342	1,6	1/16	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

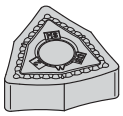


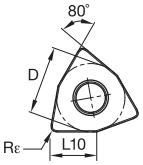


WNMG-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404MP	WNMG331MP	9,53	3/8	6,52	.257	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	●	–	–	–
WNMG060408MP	WNMG332MP	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	●	–	●	–	–	–
WNMG060412MP	WNMG333MP	9,53	3/8	6,52	.257	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MP	WNMG432MP	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
WNMG080412MP	WNMG433MP	12,70	1/2	8,69	.342	1,2	3/64	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	●	–	●	–	–	–

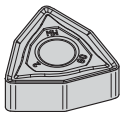
● first choice
○ alternate choice

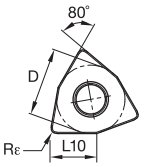




WNMG-MS

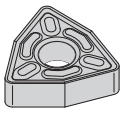
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408MS	WNMG332MS	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
WNMG080401MS	WNMG430MS	12,70	1/2	8,69	.342	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
WNMG080402MS	WNMG4305MS	12,70	1/2	8,69	.342	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
WNMG080404MS	WNMG431MS	12,70	1/2	8,69	.342	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
WNMG080408MS	WNMG432MS	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–

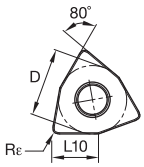




WNMG-MW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408MW	WNMG332MW	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MW	WNMG432MW	12,70	1/2	8,69	.342	0,8	1/32	–	●	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–
WNMG080412MW	WNMG433MW	12,70	1/2	8,69	.342	1,2	3/64	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

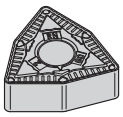


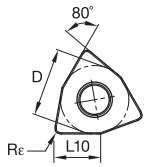


WNMG-P

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG080404P	WNMG431P	12,70	1/2	8,69	.342	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080408P	WNMG432P	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	–

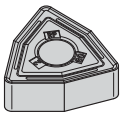
● first choice
○ alternate choice

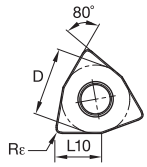




WNMG-RN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
								P ●	P ●	P ●	P ●	P ●	P ●	P ●	P ●	P ●	P ●	P ○	P ○	P ○	P ○	P ○	P ○	P ○	P ○	P ○	P ○	P ○	P ○	P ●	P ●	P ●	P ●	P ●	P ●	P ●	P ●	P ●
								M	M	M	M	M	M	M	M	M ○	M ○	M	M	M	M	M	M	M ●	M ●	M ●	M ●	M ●	M ●	M	M ●	M ●	M ●	M ●	M ●	M ●	M	M ●
								K ○	K ○	K ○	K ○	K ○	K ○	K	K	K	K	K ●	K ●	K ●	K ●	K ●	K ●	K	K	K	K	K	K	K ●	K ●	K ●	K ●	K ●	K ●	K ●	K	K ●
								N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N ●	N ●	N ●	N ●	N ●	N ●	N ●	N
								S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S ●	S ●	S ●	S ●	S ●	S ●	S	S
								H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
WNMG060408RN	WNMG332RN	9,53	3/8	6,52	.257	0,8	1/32	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG060412RN	WNMG333RN	9,53	3/8	6,52	.257	1,2	3/64	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408RN	WNMG432RN	12,70	1/2	8,69	.342	0,8	1/32	–	–	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080412RN	WNMG433RN	12,70	1/2	8,69	.342	1,2	3/64	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
WNMG080416RN	WNMG434RN	12,70	1/2	8,69	.342	1,6	1/16	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

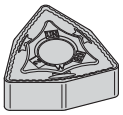


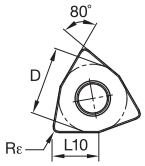


WNMG-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408RP	WNMG332RP	9,53	3/8	6,52	.257	0,8	1/32	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	●	●	–	–	–
WNMG060412RP	WNMG333RP	9,53	3/8	6,52	.257	1,2	3/64	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408RP	WNMG432RP	12,70	1/2	8,69	.342	0,8	1/32	–	●	●	●	●	●	●	–	●	–	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●	●	●	●	–	–
WNMG080412RP	WNMG433RP	12,70	1/2	8,69	.342	1,2	3/64	–	●	●	●	●	●	–	●	–	–	–	●	●	●	●	●	–	●	●	●	●	●	●	–	–	●	●	●	–	–	–
WNMG080416RP	WNMG434RP	12,70	1/2	8,69	.342	1,6	1/16	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

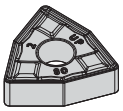
● first choice
○ alternate choice

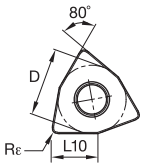




WNMG-UN

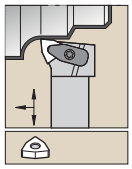
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408UN	WNMG332UN	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080404UN	WNMG431UN	12,70	1/2	8,69	.342	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408UN	WNMG432UN	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080412UN	WNMG433UN	12,70	1/2	8,69	.342	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080416UN	WNMG434UN	12,70	1/2	8,69	.342	1,6	1/16	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

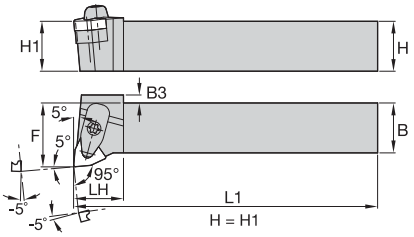




WNMG-UP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408UP	WNMG332UP	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
WNMG080408UP	WNMG432UP	12,70	1/2	8,69	.342	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–
WNMG080412UP	WNMG433UP	12,70	1/2	8,69	.342	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	●	–	●	–	–	–

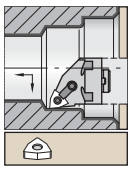


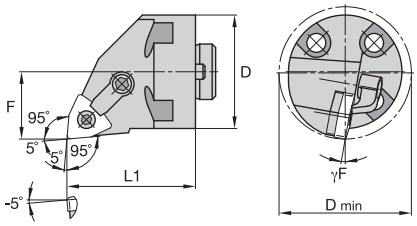


DWLN-KC -5°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
2273045	**DWLNR123BKC3**	.75	.75	1.000	4.50	1.00	.28	WN..332	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273047	**DWLNR163CKC3**	1.00	1.00	1.250	5.00	1.00	.06	WN..332	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273049	**DWLNR163DKC3**	1.00	1.00	1.250	6.00	1.00	.06	WN..332	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875144	**DWLNR164CKC3**	1.00	1.00	1.250	5.00	1.00	.15	WN..432	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875138	**DWLNR164DKC3**	1.00	1.00	1.250	6.00	1.00	.15	WN..432	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875166	**DWLNR204DKC3**	1.25	1.25	1.500	6.00	1.00	—	WN..432	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
left hand														
2273046	**DWLNL123BKC3**	.75	.75	1.000	4.50	1.00	.28	WN..332	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273048	**DWLNL163CKC3**	1.00	1.00	1.250	5.00	1.00	.06	WN..332	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875155	**DWLNL164CKC3**	1.00	1.00	1.250	5.00	1.00	.15	WN..432	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875143	**DWLNL164DKC3**	1.00	1.00	1.250	6.00	1.00	.15	WN..432	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875172	**DWLNL204DKC3**	1.25	1.25	1.500	6.00	1.00	—	WN..432	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**

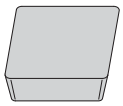
Kenloc™ Boring Heads

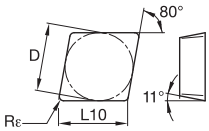

With through coolant.



H-MWLN -5°

order number	catalog number	D	D min	F	L1	γF°	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1095341	**H20MWLNR4**	1.250	1.470	.765	1.63	-14.0	WN..432	**IWSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095395	**H24MWLNR4**	1.500	1.760	.890	1.63	-14.0	WN..432	**IWSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095442	**H28MWLNR4**	1.750	2.010	1.015	1.63	-14.0	WN..432	**IWSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095489	**H32MWLNR4**	2.000	2.400	1.281	1.63	-14.0	WN..432	**IWSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
left hand													
1096482	**H16MWLNL3**	1.000	1.200	.640	1.63	-12.0	WN..332	—	**KL33L**	5/64	**CK6**	**STC5**	3/32
1095400	**H24MWLNL4**	1.500	1.760	.890	1.63	-14.0	WN..432	**IWSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1095495	**H32MWLNL4**	2.000	2.400	1.281	1.63	-14.0	WN..432	**IWSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8



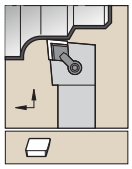


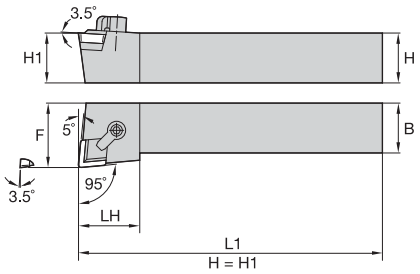
● first choice
○ alternate choice

		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

CPGN/CPG

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
		mm	in	mm	in	mm	in								
CPGN120304	**CPG421**	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	●	●	–	–	–
CPGN120308	**CPG422**	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●	●	–	–	–

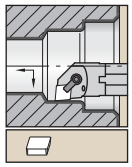




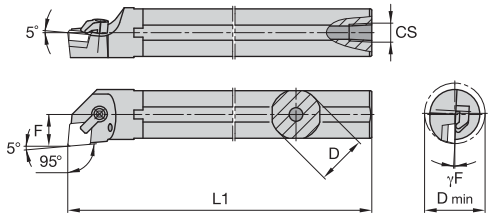
CCLP -5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096902	**CCLPR084V**	.50	.50	.750	3.50	1.00	CP.422	**SM369**	**S19**	1/16	**CK7**	**STC9**	3/32
1096903	**CCLPR124B**	.75	.75	1.000	4.50	1.25	CP.422	**SM369**	**S111**	1/16	**CK13**	**STC8**	5/32
1096904	**CCLPR164C**	1.00	1.00	1.250	5.00	1.25	CP.422	**SM369**	**S111**	1/16	**CK12**	**STC4**	5/32
left hand													
1096898	**CCLPL124B**	.75	.75	1.000	4.50	1.25	CP.422	**SM369**	**S111**	1/16	**CK13**	**STC8**	5/32
1096899	**CCLPL164C**	1.00	1.00	1.250	5.00	1.25	CP.422	**SM369**	**S111**	1/16	**CK12**	**STC4**	5/32

Kendex Boring Bars



Steel shank with through coolant.

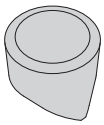


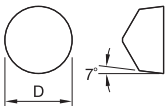
A-CCLP-5°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1094896	**A16CCLPR4**	1.000	1.200	.640	12.00	1/4-18 NPT	-3.0	CP.422	**SM369**	**S19**	1/16	**CK20**	**STC11**	1/8
1094900	**A24CCLPR4**	1.500	1.760	.890	14.00	1/4-18 NPT	.0	CP.422	**SM369**	**S19**	1/16	**CK22**	**STC26**	1/8

● first choice
○ alternate choice

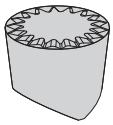
		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

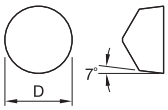




RCGV

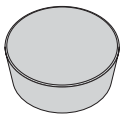
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RCGV060400	RCGV23	6,35	1/4	—	—	—	—	–	–	–	–	–	–	●	●
RCGV090700	RCGV35	9,53	3/8	—	—	—	—	–	–	–	–	–	–	–	●
RCGV120700	RCGV45	12,70	1/2	—	—	—	—	–	–	–	●	–	–	–	●

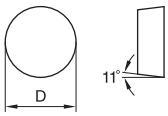




RCGV-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RCGX060400MP	RCGV23MP	6,35	1/4	—	—	—	—	–	–	–	–	–	●	–	–
RCGX120700MP	RCGV45MP	12,70	1/2	—	—	—	—	–	–	–	–	–	●	–	–



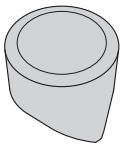


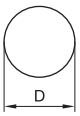
RPGN/RPG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RPGN120300	RPG42	12,70	1/2	—	—	—	—	–	–	–	●	–	–	–	–

● first choice
○ alternate choice

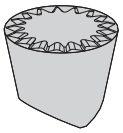
		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

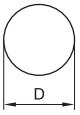




RPGV

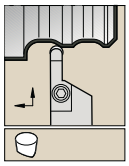
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RPGV060400	RPGV23	6,35	1/4	–	–	–	–	–	–	–	–	–	–	–	●
RPGV090700	RPGV35	9,53	3/8	–	–	–	–	–	–	–	–	–	–	–	●
RPGV120700	RPGV45	12,70	1/2	–	–	–	–	–	–	–	–	–	–	–	●

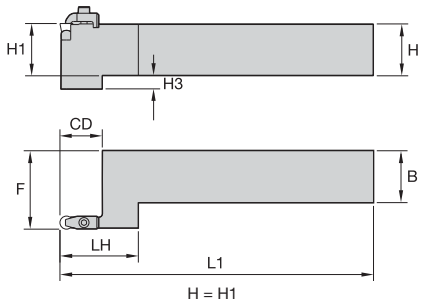




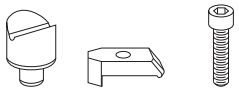
RPGV-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RPGX060400MP	RPGV23MP	6,35	1/4	–	–	–	–	–	–	–	–	–	●	–	–
RPGX090700MP	RPGV35MP	9,53	3/8	–	–	–	–	–	–	–	–	–	●	–	–
RPGV120700MP	RPGV45MP	12,70	1/2	–	–	–	–	–	–	–	–	–	–	–	●
RPGX120700MP	RPGV45MP	12,70	1/2	–	–	–	–	–	–	–	–	–	●	–	–

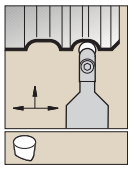


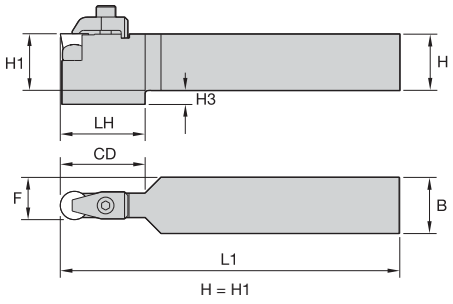


411-VRS

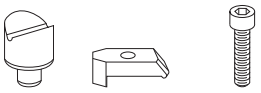


order number	catalog number	H	B	F	L1	LH	CD	H3	gage insert	nest	clamp	clamp screw	hex
right hand													
1298873	**4111492VRS**	1.00	1.00	1.500	6.00	1.50	.75	.25	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
1298876	**4111573VRS**	1.00	1.00	1.000	6.00	1.19	1.13	.25	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
1156449	**4111593VRS**	1.25	1.25	1.250	6.00	1.19	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
1298882	**4111654VRS**	1.00	1.00	1.000	6.00	1.56	1.50	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
1298884	**4111674VRS**	1.25	1.25	1.250	6.00	1.56	1.50	—	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
left hand													
1298879	**4111603VRS**	1.25	1.25	1.250	6.00	1.19	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
1298883	**4111664VRS**	1.00	1.00	1.000	6.00	1.50	1.50	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm

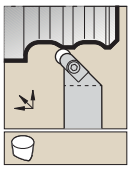


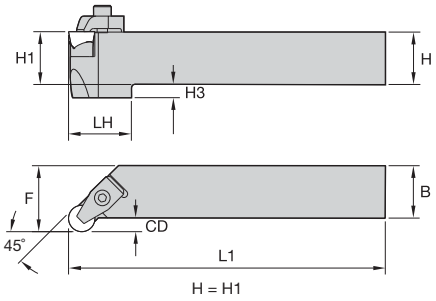


CRDP



order number	catalog number	H	B	F	L1	LH	CD	H3	gage insert	nest	clamp	clamp screw	hex
3641572	**CRDPN162DV**	1.00	1.00	.496	6.00	—	.75	—	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
3641593	**CRDPN163DV**	1.00	1.00	.496	6.00	—	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
3641594	**CRDPN203DV**	1.25	1.25	.621	6.00	—	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
3641595	**CRDPN164DV**	1.00	1.00	.496	6.00	1.50	1.50	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
3641597	**CRDPN204DV**	1.25	1.25	.621	6.00	—	1.50	—	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm

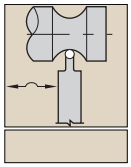


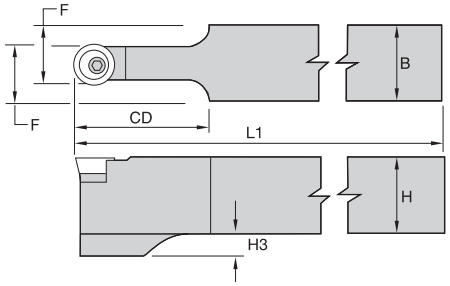


CRGP

order number	catalog number	H	B	F	L1	CD	gage insert	nest	clamp	clamp screw	hex
right hand											
3641603	**CRGPR162DV**	1.00	1.00	1.250	6.00	.25	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
3641611	**CRGPR204DV**	1.25	1.25	1.500	6.00	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
left hand											
3641604	**CRGPL162DV**	1.00	1.00	1.250	6.00	.25	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
3641608	**CRGPL203DV**	1.25	1.25	1.500	6.00	.25	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm

NOTE: CRGP toolholders are able to use RPGX and RCGX insert styles.



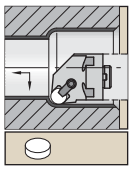


Bevel Lock

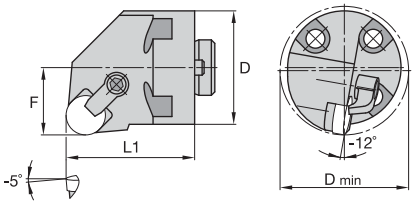
order number	catalog number	H	B	F	L1	CD	H3	gage insert	shim	lock pin	hex
1095802	**PROON164D**	1.00	1.00	.750	6.00	1.86	—	RC..43	**SMRN42B**	**BP46**	3/32
1095803	**PROON204D**	1.25	1.25	.875	6.00	1.88	—	RC..43	**SMRN42B**	**BP46**	3/32
1095806	**PROON244D**	1.50	1.50	1.000	6.00	1.88	—	RC..43	**SMRN42B**	**BP46**	3/32
1095804	**PROON206D**	1.25	1.25	1.000	6.00	2.36	—	RC..64	**SMRN63B**	**BP68**	1/8
1095808	**PROON246**	1.50	1.50	1.125	8.00	2.37	—	RC..64	**SMRN63B**	**BP68**	1/8
1095805	**PROON208D**	1.25	1.25	1.125	6.00	2.32	.25	RC..86	**SMRN84B**	**BP812**	9/64

NOTE: Order numbers 1095802, 1095803, and 1095806 accept RCGH-43 inserts only. RCMH-43 inserts will not fit.

Kendex™ Boring Heads • Kendex Positive Inserts



With through coolant.

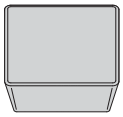


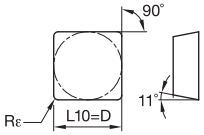
H-CRGN

order number	catalog number	D	D min	F	L1	gage insert	shim	shim screw	clamp	clamp screw	hex
right hand											
1095001	**H24CRGNR4**	1.500	1.760	.890	1.63	RN.42	**SM437**	**SL344**	**CK7LP**	**STC9**	3/32
1095003	**H32CRGNR4**	2.000	2.400	1.281	1.63	RN.42	**SM437**	**SL344**	**CK7LP**	**STC9**	3/32

● first choice
○ alternate choice

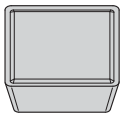
		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

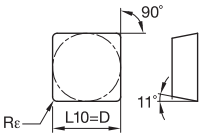




SPGN/SPG

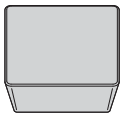
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
SPGN090304	SPG321	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	●	–	–	●
SPGN090308	SPG322	9,53	3/8	9,53	.375	0,8	1/32	–	–	●	–	●	–	–	●
SPGN120304	SPG421	12,70	1/2	12,70	.500	0,4	1/64	–	–	–	–	●	–	●	●
SPGN120308	SPG422	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●	●	–	●	●
SPGN120312	SPG423	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	●	–	–	–
SPGN120412	SPG433	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	●	–
SPGN120316	SPG424	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	–	–	–	–	●
SPGN190408	SPG632	19,05	3/4	19,05	.750	0,8	1/32	–	–	–	–	●	–	–	–
SPGN190412	SPG633	19,05	3/4	19,05	.750	1,2	3/64	–	–	–	●	–	–	●	–

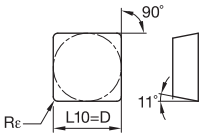




SPGR–K/SPGF

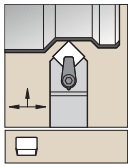
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
SPGR090308K	SPGF322	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	–	–	–	●	●
SPGR120308K	SPGF422	12,70	1/2	12,70	.500	0,8	1/32	●	–	–	–	–	–	–	–

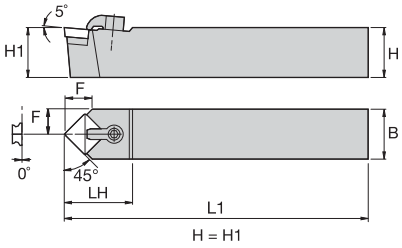




SPUN/SPU

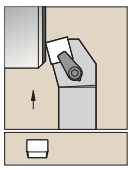
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
SPUN120304	SPU421	12,70	1/2	12,70	.500	0,4	1/64	●	–	–	–	●	–	–	–
SPUN120308	SPU422	12,70	1/2	12,70	.500	0,8	1/32	●	–	–	–	●	–	–	–
SPUN120312	SPU423	12,70	1/2	12,70	.500	1,2	3/64	●	–	–	–	–	–	–	–

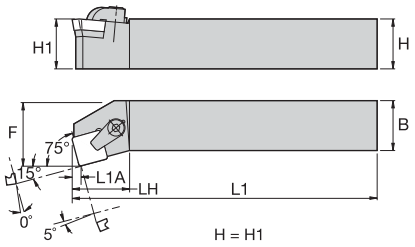


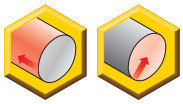


CSDP 45°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1096909	**CSDPN103**	.63	.63	.312	4.50	.94	SP.322	**SM120**	**SL344**	—	**CK7**	**STC5**	3/32
1096910	**CSDPN124**	.75	.75	.375	4.50	1.38	SP.422	**SM40**	**S111**	1/16	**CK10**	**STC8**	5/32
1096912	**CSDPN644**	1.00	.75	.375	6.00	1.38	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096911	**CSDPN164**	1.00	1.00	.500	6.00	1.38	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096914	**CSDPN856**	1.25	1.00	.500	6.00	1.82	SP.633	**SM36**	**S125**	3/32	**CK29**	**STC19**	3/16

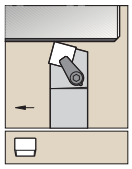


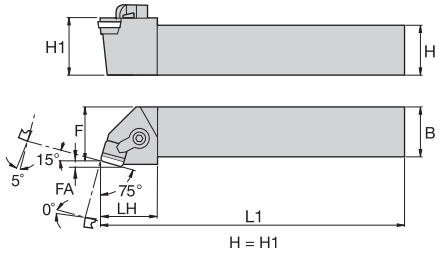


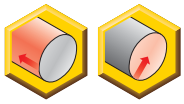


CSKP 15°

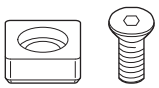
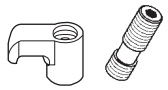
order number	catalog number	H	B	F	L1	LH	L1A	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096920	**CSKPR164D**	1.00	1.00	1.250	6.00	1.13	.12	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
left hand														
1096917	**CSKPL164D**	1.00	1.00	1.250	6.00	1.13	.12	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32



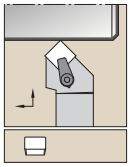


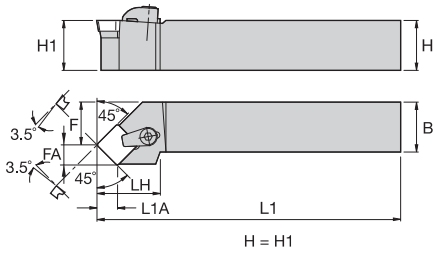


CSRP 15°

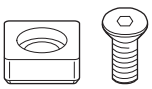
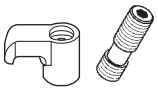



order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096932	**CSRPR164D**	1.00	1.00	1.048	6.00	1.19	.12	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096934	**CSRPR866E**	1.50	1.00	1.060	7.00	1.50	.18	SP.633	**SM36**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand														
1096925	**CSRPL124B**	.75	.75	.855	4.50	1.19	.12	SP.422	**SM40**	**S111**	1/16	**CK10**	**STC8**	5/32
1096926	**CSRPL164D**	1.00	1.00	1.048	6.00	1.19	.12	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096927	**CSRPL856D**	1.25	1.00	1.060	6.00	1.50	.18	SP.633	**SM36**	**S125**	3/32	**CK9**	**STC4**	5/32
1096928	**CSRPL866E**	1.50	1.00	1.060	7.00	1.50	.18	SP.633	**SM36**	**S125**	3/32	**CK9**	**STC4**	5/32

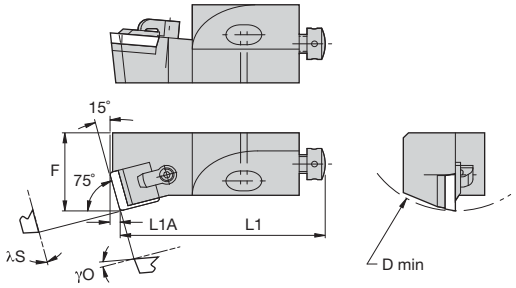




CSSP 45°

order number	catalog number	H	B	F	L1	LH	FA	L1A	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand															
1085234	**CSSPR164D**	1.00	1.00	1.170	6.00	1.44	.34	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096937	**CSSPR854D**	1.25	1.00	1.170	6.00	1.44	.34	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
left hand															
1096691	**CSSPL164D**	1.00	1.00	1.170	6.00	1.44	.33	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096935	**CSSPL854D**	1.25	1.00	1.170	6.00	1.44	.33	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096693	**CSSPL856D**	1.25	1.00	1.020	6.00	1.50	.48	.53	SP.633	**SM36**	**S125**	3/32	**CK9**	**STC4**	5/32

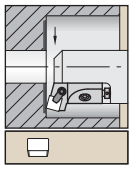


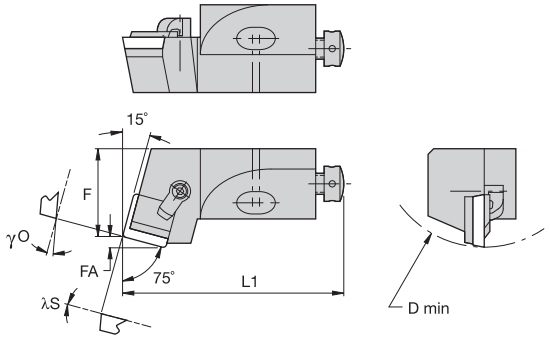
CSKP 15°

order number	catalog number	D min	F	L1	L1A	λS°	γO°	gage insert
right hand								
1261328	**CSKPR12CA4**	1.969	.787	2.17	.12	.0	5.0	SP..120308/SP..422

Spare Parts

D min	shim	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**



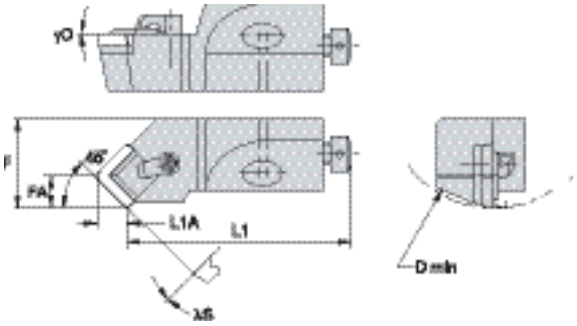


CSRP -15°

order number	catalog number	D min	F	FA	L1	λS°	γO°	gage insert
right hand								
3331132	**CSRPR10CA3**	1.575	.551	.087	1.97	.0	.0	SP..090308/SP..322

Spare Parts

D min	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**



CSSP 45°

order number	catalog number	D min	F	FA	L1	L1A	λS°	γO°	gage insert
right hand									
1261379	**CSSPR10CA3**	1.575	.551	.254	1.73	.24	.0	.0	SP..090308/SP..322
left hand									
3331143	**CSSPL10CA3**	1.575	.551	.254	1.73	.24	.0	.0	SP..090308/SP..322

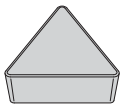
NOTE: Select spare parts based off of D min and insert size selected.

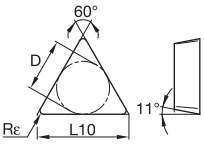
Spare Parts

D min	shim	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	–	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**

● first choice
○ alternate choice

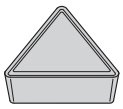
		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

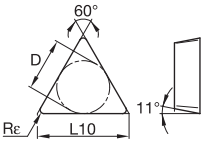




TPGN/TPG

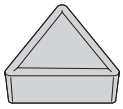
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPGN110304	TPG221	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	●	●	–	●	●
TPGN110308	TPG222	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	●	–	●	●
TPGN160302	TPG3205	9,53	3/8	16,50	.650	0,2	.008	–	–	–	●	●	–	–	●
TPGN160304	TPG321	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	●	●	–	●	●
TPGN160308	TPG322	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●	●	–	●	●
TPGN160312	TPG323	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	●	–	–	–	●
TPGN160316	TPG324	9,53	3/8	16,50	.650	1,6	1/16	–	–	–	–	●	–	–	●
TPGN220404	TPG431	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	●	●	–	●	●
TPGN220408	TPG432	12,70	1/2	22,00	.866	0,8	1/32	●	–	–	●	●	–	●	●
TPGN220412	TPG433	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	–	●	–	●	●
TPGN220416	TPG434	12,70	1/2	22,00	.866	1,6	1/16	–	–	–	–	●	–	–	●

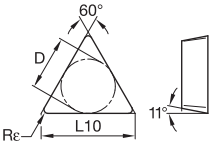




TPGR–K/TPGF

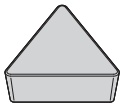
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPGR110304K	TPGF221	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	–	–	–	–	●
TPGR110308K	TPGF222	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	–	–	●	–
TPGR160304K	TPGF321	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	●	●
TPGR160308K	TPGF322	9,53	3/8	16,50	.650	0,8	1/32	●	–	–	–	–	–	●	●
TPGR220404K	TPGF431	12,70	1/2	22,00	.866	0,4	1/64	–	–	–	–	–	–	●	–
TPGR220408K	TPGF432	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	●	–

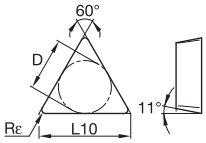




TPMR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPMR110304	TPMR221	6,35	1/4	11,00	.433	0,4	1/64	●	●	–	–	–	–	–	–
TPMR110308	TPMR222	6,35	1/4	11,00	.433	0,8	1/32	●	–	–	–	–	–	–	–
TPMR160304	TPMR321	9,53	3/8	16,50	.650	0,4	1/64	●	●	–	–	–	–	–	–
TPMR160308	TPMR322	9,53	3/8	16,50	.650	0,8	1/32	●	●	–	–	–	–	–	–
TPMR220408	TPMR432	12,70	1/2	22,00	.866	0,8	1/32	●	–	–	–	–	–	–	–



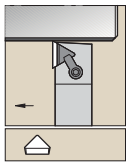


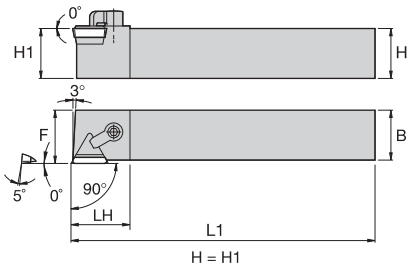
● first choice
○ alternate choice

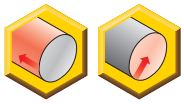
		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

TPUN/TPU

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
		mm	in	mm	in	mm	in								
TPUN110304	**TPU221**	6,35	1/4	11,00	.433	0,4	1/64	–	●	–	–	●	–	–	–
TPUN110308	**TPU222**	6,35	1/4	11,00	.433	0,8	1/32	–	●	–	–	●	–	–	–
TPUN160304	**TPU321**	9,53	3/8	16,50	.650	0,4	1/64	●	●	–	–	●	–	–	–
TPUN160308	**TPU322**	9,53	3/8	16,50	.650	0,8	1/32	●	●	–	–	●	–	–	–
TPUN220408	**TPU432**	12,70	1/2	22,00	.866	0,8	1/32	●	●	–	–	●	–	–	–
TPUN220412	**TPU433**	12,70	1/2	22,00	.866	1,2	3/64	●	●	–	–	●	–	–	–

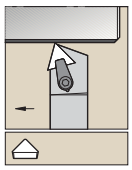


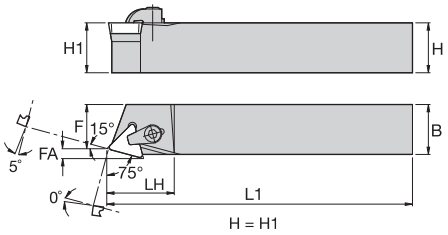




CTAP 0°

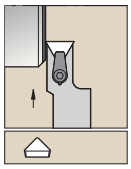
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096948	**CTAPR082B**	.50	.50	.500	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1096949	**CTAPR102B**	.63	.63	.625	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC5**	3/32
1096950	**CTAPR123B**	.75	.75	.750	4.50	1.06	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096951	**CTAPR163D**	1.00	1.00	1.000	6.00	1.06	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1096952	**CTAPR854D**	1.25	1.00	1.000	6.00	1.12	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand													
1096941	**CTAPL123B**	.75	.75	.750	4.50	1.06	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096946	**CTAPL854D**	1.25	1.00	1.000	6.00	1.12	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

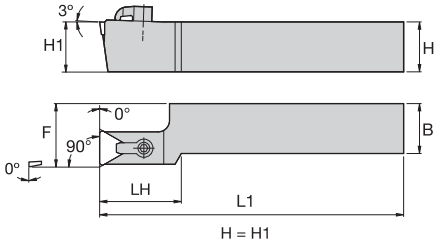


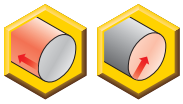


CTBP 15°

order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096959	**CTBPR123B**	.75	.75	.600	4.50	1.19	.15	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096960	**CTBPR163D**	1.00	1.00	.850	6.00	1.19	.15	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
left hand														
1096955	**CTBPL123B**	.75	.75	.600	4.50	1.19	.15	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32

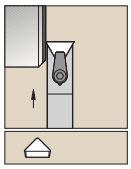


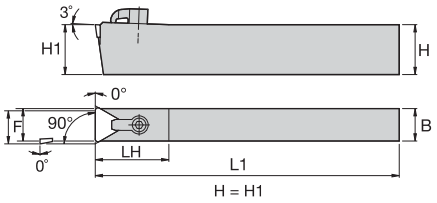


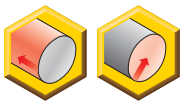


CTCP 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096976	**CTCPR123B**	.75	.75	1.000	4.50	1.50	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096977	**CTCPR163C**	1.00	1.00	1.250	5.00	1.50	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096978	**CTCPR164C**	1.00	1.00	1.250	5.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096979	**CTCPR164D**	1.00	1.00	1.250	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096980	**CTCPR204D**	1.25	1.25	1.500	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096982	**CTCPR244D**	1.50	1.50	2.000	6.00	3.00	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
left hand													
1096963	**CTCPL163C**	1.00	1.00	1.250	5.00	1.50	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096965	**CTCPL164D**	1.00	1.00	1.250	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096966	**CTCPL204D**	1.25	1.25	1.500	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096968	**CTCPL244D**	1.50	1.50	2.000	6.00	3.00	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32

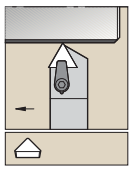


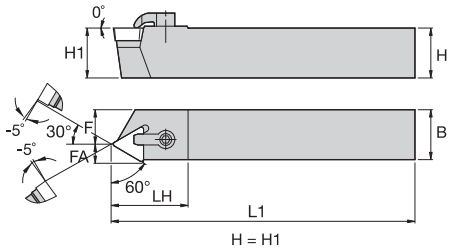


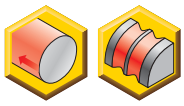


CTCPN 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1096972	**CTCPN443**	1.00	.50	.542	8.00	1.19	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096971	**CTCPN124**	.75	.75	.782	6.00	1.31	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC8**	5/32
1096973	**CTCPN644**	1.00	.75	.782	8.00	1.31	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096974	**CTCPN664**	1.50	.75	.782	8.00	1.31	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32

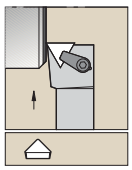


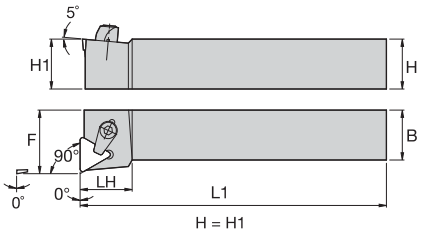


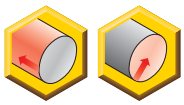


CTEP 30°

order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096985	**CTEPR123B**	.75	.75	.460	4.50	1.25	.28	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096992	**CTEPR163D**	1.00	1.00	.700	6.00	1.25	.28	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1096993	**CTEPR854D**	1.25	1.00	.610	6.00	1.31	.39	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand														
1096989	**CTEPL854D**	1.25	1.00	.610	6.00	1.31	.39	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

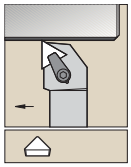


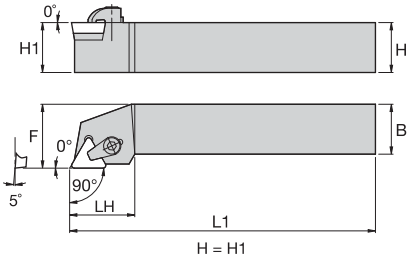


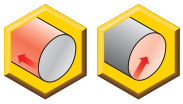


CTFP 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1097008	**CTFPR082V**	.50	.50	.750	3.50	.56	TP.221	**SM119**	**SL344**	–	**CK19**	**STC9**	3/32
1097011	**CTFPR123B**	.75	.75	1.000	4.50	1.12	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097013	**CTFPR163D**	1.00	1.00	1.250	6.00	1.12	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097014	**CTFPR164C**	1.00	1.00	1.250	5.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097015	**CTFPR164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097018	**CTFPR854D**	1.25	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097016	**CTFPR204D**	1.25	1.25	1.500	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand													
1096997	**CTFPL123B**	.75	.75	1.000	4.50	1.12	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096999	**CTFPL163D**	1.00	1.00	1.250	6.00	1.12	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097001	**CTFPL164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097004	**CTFPL854D**	1.25	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

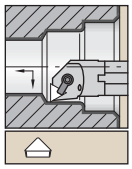




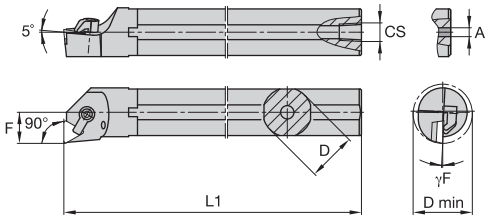


CTGP 0°

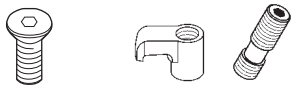
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096696	**CTGPR082B**	.50	.50	.750	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097035	**CTGPR102B**	.63	.63	.875	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097036	**CTGPR123A**	.75	.75	1.000	4.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097037	**CTGPR123B**	.75	.75	1.000	4.50	1.13	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097038	**CTGPR163C**	1.00	1.00	1.250	5.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097039	**CTGPR163D**	1.00	1.00	1.250	6.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097041	**CTGPR164C**	1.00	1.00	1.250	5.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097042	**CTGPR164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097043	**CTGPR204D**	1.25	1.25	1.500	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand													
1097021	**CTGPL102B**	.63	.63	.875	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097022	**CTGPL123B**	.75	.75	1.000	4.50	1.13	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097023	**CTGPL163C**	1.00	1.00	1.250	5.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097024	**CTGPL163D**	1.00	1.00	1.250	6.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097026	**CTGPL164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097027	**CTGPL204D**	1.25	1.25	1.500	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32



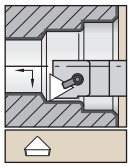
Steel shank with through coolant.



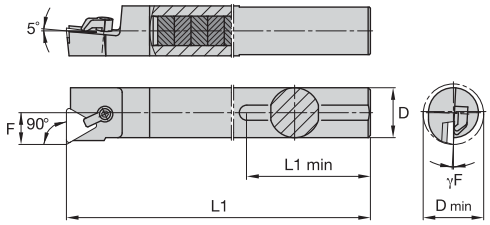
A-CTFP 0°



order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand															
1094872	**A06RCTFPR2**	.375	.480	.250	6.00	.13	—	-3.0	TPG.2151	**—**	**—**	—	**CK27**	**STC27**	5/64
1094874	**A08RCTFPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**—**	**—**	—	**CK27**	**STC27**	5/64
1094876	**A10SCTFPR2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-4.0	TP.221	**—**	**—**	—	**CK19**	**STC9**	3/32
1094878	**A12SCTFPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**—**	**—**	—	**CK7**	**STC9**	3/32
1094880	**A16TCTFPR3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	.0	TP.322	**—**	**—**	—	**CK20**	**STC11**	1/8
1094882	**A20UCTFPR3**	1.250	1.470	.765	14.00	.25	1/4-18 NPT	-3.0	TP.322	**SM41**	**S19**	1/16	**CK10**	**STC8**	5/32
1094884	**A24CTFPR3**	1.500	1.760	.890	14.00	.25	1/4-18 NPT	-3.0	TP.322	**SM41**	**S19**	1/16	**CK10**	**STC8**	5/32
1094888	**A24CTFPR4**	1.500	1.760	.890	14.00	.25	1/4-18 NPT	-3.0	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC8**	5/32
1094892	**A32CTFPR4**	2.000	2.400	1.281	16.00	.25	1/4-18 NPT	-3.0	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand															
1094875	**A08RCTFPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**—**	**—**	—	**CK27**	**STC27**	5/64
1094877	**A10CTFPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-4.0	TP.221	**—**	**—**	—	**CK19**	**STC9**	3/32
1094879	**A12SCTFPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**—**	**—**	—	**CK7**	**STC9**	3/32
1094889	**A24CTFPL4**	1.500	1.760	.890	14.00	—	1/4-18 NPT	-3.0	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC8**	5/32

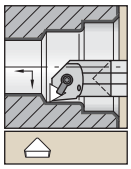


DeVibrator shank.

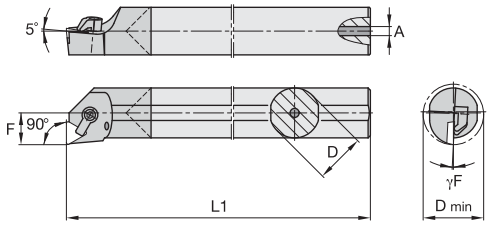


B-CTFP 0°

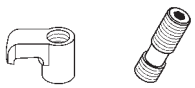
order number	catalog number	D	D min	F	L1	L1 min	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1095829	**B10CTFPR2**	.625	.770	.406	10.00	5.25	.0	TP.221	**—**	**—**	—	**CK19**	**STC9**	3/32
1095830	**B12CTFPR3**	.750	.930	.500	10.00	5.75	.0	TP.322	**—**	**—**	—	**CK7**	**STC9**	3/32
1095831	**B14CTFPR3**	.875	1.060	.516	10.00	6.25	.0	TP.322	**—**	**—**	—	**CK20**	**STC11**	1/8
1095832	**B16CTFPR3**	1.000	1.200	.640	12.00	6.50	.0	TP.322	**—**	**—**	—	**CK20**	**STC11**	1/8
1095833	**B20CTFPR3**	1.250	1.470	.765	14.00	8.25	-3.0	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1095834	**B24CTFPR4**	1.500	1.760	.890	15.50	9.75	-3.0	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC8**	5/32
1095836	**B32CTFPR4**	2.000	2.400	1.281	21.50	12.25	-3.0	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32



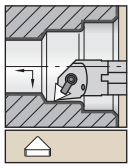
Carbide shank with through coolant.



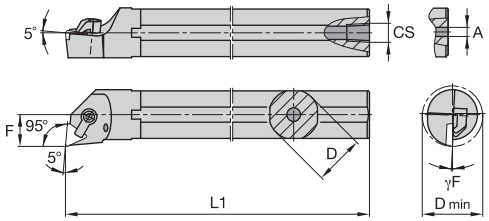
E-CTFP 0°



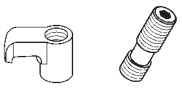
order number	catalog number	D	D min	F	L1	A	γF°	gage insert	clamp	clamp screw	hex
right hand											
1152584	**E08KCTFPR2**	.500	.600	.312	5.00	.19	-3.0	TP.221	**CK27**	**STC27**	5/64
1152586	**E08RCTFPR2**	.500	.600	.312	8.00	.19	-3.0	TP.221	**CK27**	**STC27**	5/64
1152588	**E10MCTFPR2**	.625	.770	.406	6.00	.22	.0	TP.221	**CK19**	**STC9**	3/32
1152590	**E10SCTFPR2**	.625	.770	.406	10.00	.22	.0	TP.221	**CK19**	**STC9**	3/32
1152592	**E12QCTFPR3**	.750	.930	.500	7.00	.28	.0	TP.322	**CK7**	**STC9**	3/32
1152594	**E12SCTFPR3**	.750	.930	.500	10.00	.28	.0	TP.322	**CK7**	**STC9**	3/32
1152598	**E16TCTFPR3**	1.000	1.200	.640	12.00	.31	.0	TP.322	**CK20**	**STC11**	1/8
left hand											
1152593	**E12QCTFPL3**	.750	.930	.500	7.00	.28	.0	TP.322	**CK7**	**STC9**	3/32
1152595	**E12SCTFPL3**	.750	.930	.500	10.00	.28	.0	TP.322	**CK7**	**STC9**	3/32



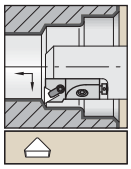
Steel shank with through coolant.

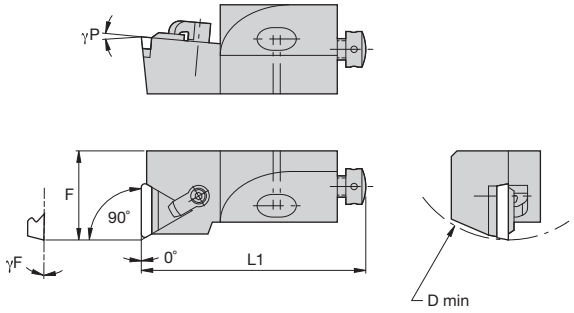


A-CTLP -5°



order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	clamp	clamp screw	hex
right hand												
1094904	**A06MCTLPR2**	.375	.480	.250	6.00	.13	—	-3.0	TP.2151	**CK27**	**STC27**	5/64
1094906	**A08RCTLPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**CK27**	**STC27**	5/64
1094908	**A12SCTLPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**CK7**	**STC9**	3/32
1094910	**A16CTLPR3**	1.000	1.220	.640	12.00	—	1/4-18 NPT	.0	TP.322	**CK20**	**STC11**	1/8
left hand												
1094907	**A08RCTLPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**CK27**	**STC27**	5/64
3994022	**A10SCTLPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-3.0	TP.221	**CK19**	**STC9**	3/32
1094909	**A12SCTLPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**CK7**	**STC9**	3/32
1094863	**A16CTLPL3**	1.000	1.220	.640	12.00	—	1/4-18 NPT	.0	TP.322	**CK20**	**STC11**	1/8

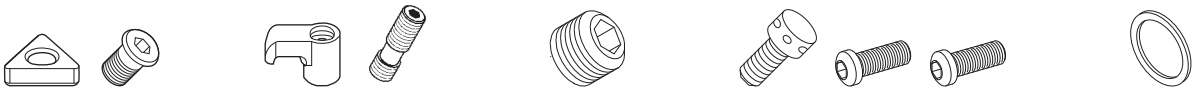




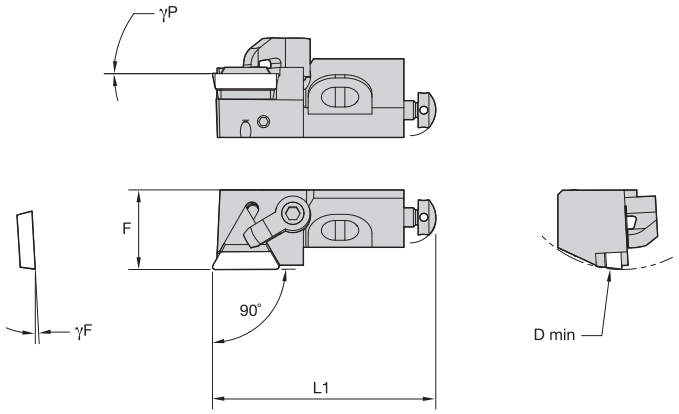
CTFP 0°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
2116588	**CTFPR10CA2**	1.575	.551	1.97	.0	5.0	TP..110304/TP..221
1746442	**CTFPR12CA3**	1.969	.787	2.17	.0	5.0	TP..160308/TP..322
2582207	**CTFPR20CA4**	2.756	.984	2.76	.0	5.0	TP..220408/TP..432
left hand							
2114034	**CTFPL10CA2**	1.575	.551	1.97	.0	5.0	TP..110304/TP..221

Spare Parts



D min	shim	shim screw	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	**–**	**–**	–	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
1.969	**–**	**–**	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**
2.756	**SM837**	**MS125**	2.5 mm	**CKM35**	**STCM8**	4 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**

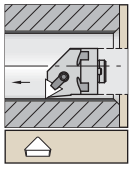


CTGP 0°

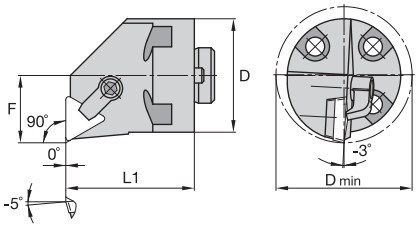
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
3330191	**CTGPR12CA3**	1.969	.787	2.17	3.0	.0	TP..160308/TP..322

Spare Parts

D min	shim	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**



With through coolant.

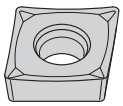


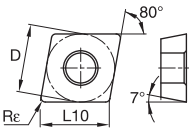
H-CTFP 0°

order number	catalog number	D	D min	F	L1	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand												
1095321	**H20CTFPR3W**	1.250	1.470	.765	1.63	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1095542	**H40CTFPR4W**	2.500	3.030	1.531	1.63	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC4**	5/32

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

● first choice
○ alternate choice

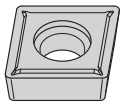


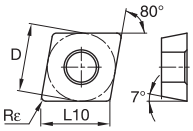


CCGT-HP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CCGT060202HP	CCGT21505HP	6,35	1/4	6,45	.254	0,2	.008
CCGT060204HP	CCGT2151HP	6,35	1/4	6,45	.254	0,4	1/64
CCGT060208HP	CCGT2152HP	6,35	1/4	6,45	.254	0,8	1/32
CCGT09T302HP	CCGT32505HP	9,53	3/8	9,67	.381	0,2	.008
CCGT09T304HP	CCGT3251HP	9,53	3/8	9,67	.381	0,4	1/64
CCGT09T308HP	CCGT3252HP	9,53	3/8	9,67	.381	0,8	1/32
CCGT120402HP	CCGT4305HP	12,70	1/2	12,90	.508	0,2	.008
CCGT120404HP	CCGT431HP	12,70	1/2	12,90	.508	0,4	1/64
CCGT120408HP	CCGT432HP	12,70	1/2	12,90	.508	0,8	1/32

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCGT060202HP	CCGT21505HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	–	●	●	–	–
CCGT060204HP	CCGT2151HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CCGT060208HP	CCGT2152HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
CCGT09T302HP	CCGT32505HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CCGT09T304HP	CCGT3251HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CCGT09T308HP	CCGT3252HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
CCGT120402HP	CCGT4305HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
CCGT120404HP	CCGT431HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
CCGT120408HP	CCGT432HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	–	●	–	–





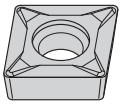
CCGT-LF

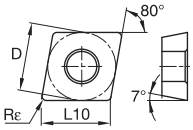
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CCGT0602X0LF	CCGT215X0LF	6,35	1/4	6,45	.254	0,0	.0015
CCGT060201LF	CCGT2150LF	6,35	1/4	6,45	.254	0,1	.004
CCGT060202LF	CCGT21505LF	6,35	1/4	6,45	.254	0,2	.008
CCGT060204LF	CCGT2151LF	6,35	1/4	6,45	.254	0,4	1/64
CCGT060208LF	CCGT2152LF	6,35	1/4	6,45	.254	0,8	1/32
CCGT09T3X0LF	CCGT325X0LF	9,53	3/8	9,67	.381	0,0	.0015
CCGT09T301LF	CCGT3250LF	9,53	3/8	9,67	.381	0,1	.004
CCGT09T302LF	CCGT32505LF	9,53	3/8	9,67	.381	0,2	.008
CCGT09T304LF	CCGT3251LF	9,53	3/8	9,67	.381	0,4	1/64
CCGT09T308LF	CCGT3252LF	9,53	3/8	9,67	.381	0,8	1/32

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCGT0602X0LF	CCGT215X0LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CCGT060201LF	CCGT2150LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT060202LF	CCGT21505LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT060204LF	CCGT2151LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT060208LF	CCGT2152LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
CCGT09T3X0LF	CCGT325X0LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CCGT09T301LF	CCGT3250LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT09T302LF	CCGT32505LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT09T304LF	CCGT3251LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CCGT09T308LF	CCGT3252LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	–	–	–

● first choice
○ alternate choice

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														





CCMT-11

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CCMT06020411	CCMT215111	6,35	1/4	6,45	.254	0,4	1/64
CCMT09T30411	CCMT325111	9,53	3/8	9,67	.381	0,4	1/64
CCMT09T30811	CCMT325211	9,53	3/8	9,67	.381	0,8	1/32

KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
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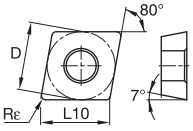
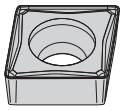
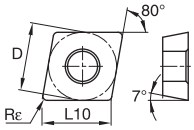


CCMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CCMT060202FP	CCMT21505FP	6,35	1/4	6,45	.254	0,2	.008
CCMT060204FP	CCMT2151FP	6,35	1/4	6,45	.254	0,4	1/64
CCMT060208FP	CCMT2152FP	6,35	1/4	6,45	.254	0,8	1/32
CCMT09T302FP	CCMT32505FP	9,53	3/8	9,67	.381	0,2	.008
CCMT09T304FP	CCMT3251FP	9,53	3/8	9,67	.381	0,4	1/64
CCMT09T308FP	CCMT3252FP	9,53	3/8	9,67	.381	0,8	1/32
CCMT120404FP	CCMT431FP	12,70	1/2	12,90	.508	0,4	1/64
CCMT120408FP	CCMT432FP	12,70	1/2	12,90	.508	0,8	1/32
CCMT120412FP	CCMT433FP	12,70	1/2	12,90	.508	1,2	3/64

KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
–	–	–	–	●	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	●	–	●	–	–	●	–
–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	●	●	–	–	–	–	●
–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	●	●	–	–	–	–	●
–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	●	●	–	–	–	–	●
–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–
–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



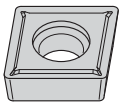


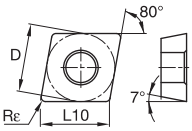
CCMT-FW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
CCMT060202FW	CCMT21505FW	6,35	1/4	6,45	.254	0,2	.008
CCMT060204FW	CCMT2151FW	6,35	1/4	6,45	.254	0,4	1/64
CCMT060208FW	CCMT2152FW	6,35	1/4	6,45	.254	0,8	1/32
CCMT09T304FW	CCMT3251FW	9,53	3/8	9,67	.381	0,4	1/64
CCMT09T308FW	CCMT3252FW	9,53	3/8	9,67	.381	0,8	1/32

KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
–	–	–	–	●	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
–	–	–	–	●	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–

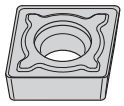
● first choice
○ alternate choice

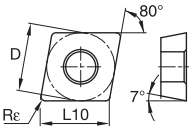




CCMT-LF

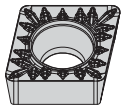
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060202LF	CCMT21505LF	6,35	1/4	6,45	.254	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
CCMT060204LF	CCMT2151LF	6,35	1/4	6,45	.254	0,4	1/64	–	●	●	●	●	●	–	–	●	●	●	●	●	●	–	●	●	●	–	●	–	–	–	–	●	●	–	●	–
CCMT060208LF	CCMT2152LF	6,35	1/4	6,45	.254	0,8	1/32	●	–	●	●	●	●	–	●	●	●	●	●	–	●	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
CCMT09T302LF	CCMT32505LF	9,53	3/8	9,67	.381	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	●	–
CCMT09T304LF	CCMT3251LF	9,53	3/8	9,67	.381	0,4	1/64	–	●	●	●	●	●	–	–	●	●	●	–	●	●	–	●	●	●	–	●	–	–	–	–	●	●	–	●	–
CCMT09T308LF	CCMT3252LF	9,53	3/8	9,67	.381	0,8	1/32	●	●	●	●	●	●	–	–	●	●	●	●	●	●	–	●	●	●	–	●	–	–	–	–	●	–	–	●	–
CCMT120404LF	CCMT431LF	12,70	1/2	12,90	.508	0,4	1/64	–	–	●	●	●	●	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
CCMT120408LF	CCMT432LF	12,70	1/2	12,90	.508	0,8	1/32	–	●	●	●	●	–	–	–	–	–	●	●	●	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	–
CCMT120412LF	CCMT433LF	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	●	–	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

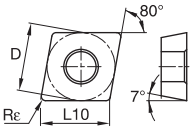




CCMT-MF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060204MF	CCMT2151MF	6,35	1/4	6,45	.254	0,4	1/64	–	●	●	●	●	●	–	–	–	–	●	–	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CCMT09T304MF	CCMT3251MF	9,53	3/8	9,67	.381	0,4	1/64	–	●	–	●	●	●	–	–	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
CCMT09T308MF	CCMT3252MF	9,53	3/8	9,67	.381	0,8	1/32	–	●	–	●	●	●	–	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	●	–	–	–
CCMT09T312MF	CCMT3253MF	9,53	3/8	9,67	.381	1,2	3/64	–	–	●	●	●	–	–	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMT120408MF	CCMT432MF	12,70	1/2	12,90	.508	0,8	1/32	–	●	●	●	●	●	–	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CCMT120412MF	CCMT433MF	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	●	●	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

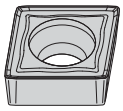


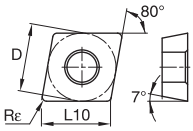


CCMT-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060204MP	CCMT2151MP	6,35	1/4	6,45	.254	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	●	–	–	–	–	–	–	–
CCMT09T304MP	CCMT3251MP	9,53	3/8	9,67	.381	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT09T308MP	CCMT3252MP	9,53	3/8	9,67	.381	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	●	●	●	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT09T312MP	CCMT3253MP	9,53	3/8	9,67	.381	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT120408MP	CCMT432MP	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–
CCMT120412MP	CCMT433MP	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–

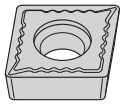
● first choice
○ alternate choice

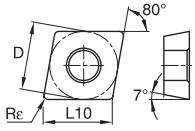




CCMT-MW

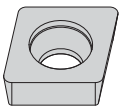
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P								●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M														○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K								○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																										●	●	●		●	●	●	●	●		
S																										●	●	●	●	●	●	●	●			
H																																				
CCMT09T304MW	CCMT3251MW	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	●	–
CCMT09T308MW	CCMT3252MW	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	●	–	●	–	●	–
CCMT120404MW	CCMT431MW	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CCMT120408MW	CCMT432MW	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

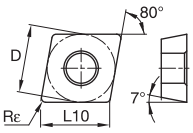




CCMT-UF

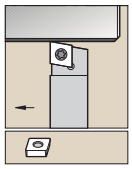
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060204UF	CCMT2151UF	6,35	1/4	6,45	.254	0,4	1/64	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT09T302UF	CCMT32505UF	9,53	3/8	9,67	.381	0,2	.008	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT09T304UF	CCMT3251UF	9,53	3/8	9,67	.381	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT09T308UF	CCMT3252UF	9,53	3/8	9,67	.381	0,8	1/32	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

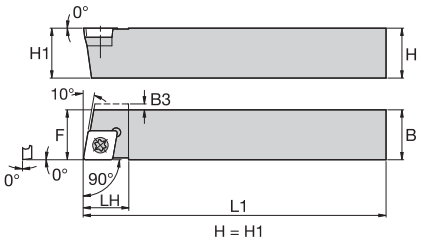


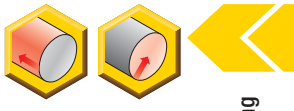


CCMW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMW060204	CCMW2151	6,35	1/4	6,45	.254	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMW09T308	CCMW3252	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMW120408	CCMW432	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMW120412	CCMW433	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

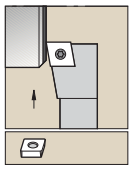


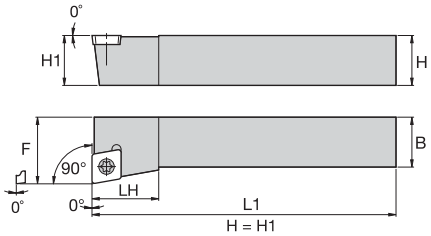


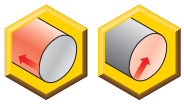


SCAC 0°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	wrench size insert screw
right hand												
1094433	**SCACR052D**	.31	.31	.313	6.00	.44	.09	CC..2151	–	–	–	**MS1153**
1094435	**SCACR062D**	.38	.38	.375	6.00	.44	–	CC..2151	–	–	–	**MS1153**
1094437	**SCACR083D**	.50	.50	.500	6.00	.62	–	CC..3252	–	–	–	**MS1155**
1094589	**SCACR103B**	.63	.63	.625	4.50	.62	–	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**
left hand												
1094436	**SCACL062D**	.38	.38	.375	6.00	.44	–	CC..2151	–	–	–	**MS1153**
1094438	**SCACL083D**	.50	.50	.500	6.00	.62	–	CC..3252	–	–	–	**MS1155**
1094590	**SCACL103B**	.63	.63	.625	4.50	.62	–	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**

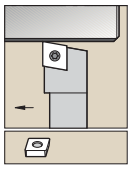


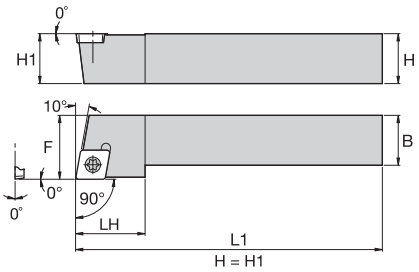


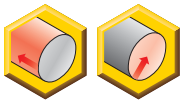


SCFC 0°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1094443	**SCFCR082**	.50	.50	.625	3.50	.50	CC..2151	**MS1153**	T7
left hand									
1094444	**SCFCL082**	.50	.50	.625	3.50	.50	CC..2151	**MS1153**	T7

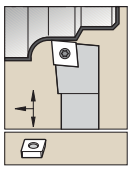


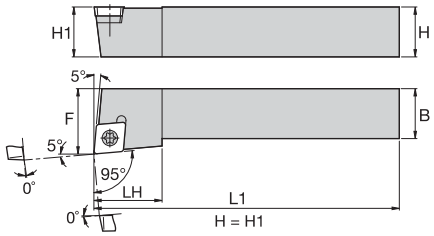




SCGC 0°

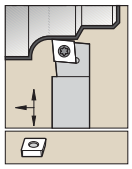
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094453	**SCGCR062**	.38	.38	.500	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094455	**SCGCR082**	.50	.50	.625	3.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094457	**SCGCR102**	.63	.63	.750	4.00	.50	CC..2151	–	–	–	**MS1153**	T7
1094459	**SCGCR103**	.63	.63	.750	4.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094461	**SCGCR123**	.75	.75	1.000	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094572	**SCGCR163**	1.00	1.00	1.250	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094462	**SCGCL123**	.75	.75	1.000	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094573	**SCGCL163**	1.00	1.00	1.250	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15

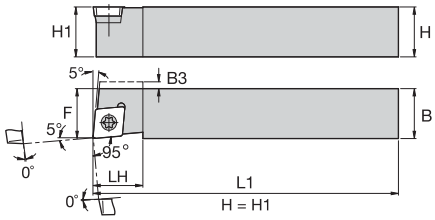




SCLC -5°

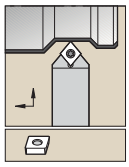
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094475	**SCLCR052**	.31	.31	.375	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094477	**SCLCR062**	.38	.38	.500	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094479	**SCLCR082**	.50	.50	.625	3.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094481	**SCLCR102**	.63	.63	.750	4.00	.50	CC..2151	–	–	–	**MS1153**	T7
1094483	**SCLCR103**	.63	.63	.750	4.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094485	**SCLCR123**	.75	.75	1.000	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094576	**SCLCR163**	1.00	1.00	1.250	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1843875	**SCLCR124B**	.75	.75	1.000	4.50	.75	CC..432	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
1843877	**SCLCR164D**	1.00	1.00	1.250	6.00	.75	CC..432	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
left hand												
1094476	**SCLCL052**	.31	.31	.375	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094478	**SCLCL062**	.38	.38	.500	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094480	**SCLCL082**	.50	.50	.625	3.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094482	**SCLCL102**	.63	.63	.750	4.00	.50	CC..2151	–	–	–	**MS1153**	T7
1094484	**SCLCL103**	.63	.63	.750	4.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094486	**SCLCL123**	.75	.75	1.000	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094577	**SCLCL163**	1.00	1.00	1.250	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1843874	**SCLCL124B**	.75	.75	1.000	4.50	.75	CC..432	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
1843876	**SCLCL164D**	1.00	1.00	1.250	6.00	.75	CC..432	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15

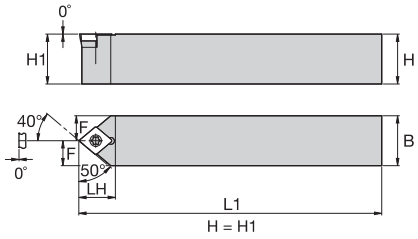




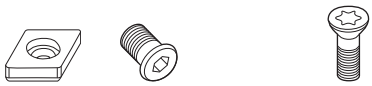
SCLC-F -5°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	hex	insert screw	Torx
right hand													
1094491	**SCLCRF062D**	.38	.38	.375	6.00	.50	–	CC..2151	–	–	–	**MS1153**	T7
1094493	**SCLCRF082D**	.50	.50	.500	6.00	.50	–	CC..2151	–	–	–	**MS1153**	T7
1094495	**SCLCRF083D**	.50	.50	.500	6.00	.62	.09	CC..3252	–	–	–	**MS1155**	T15
1094591	**SCLCRF523Z**	.50	.63	.625	3.25	.62	–	CC..3252	–	–	–	**MS1155**	T15
1094593	**SCLCRF103B**	.63	.63	.625	4.50	.62	–	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand													
1094492	**SCLCLF062D**	.38	.38	.375	6.00	.50	–	CC..2151	–	–	–	**MS1153**	T7
1094494	**SCLCLF082D**	.50	.50	.500	6.00	.50	–	CC..2151	–	–	–	**MS1153**	T7
1094496	**SCLCLF083D**	.50	.50	.500	6.00	.62	.09	CC..3252	–	–	–	**MS1155**	T15
1094594	**SCLCLF103B**	.63	.63	.625	4.50	.62	–	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15

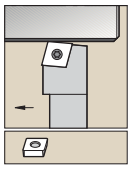


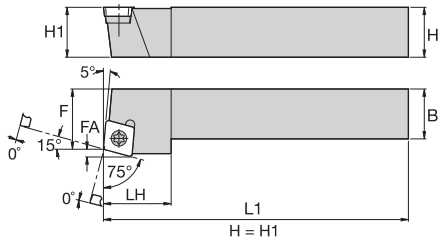


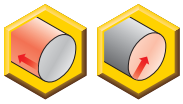
SCMC 40°



order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
1094497	**SCMCN062**	.38	.38	.188	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094498	**SCMCN082**	.50	.50	.250	3.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094500	**SCMCN083**	.50	.50	.250	3.50	.62	CC..3252	–	–	–	**MS1155**	T15
1094501	**SCMCN103**	.63	.63	.313	4.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094502	**SCMCN123**	.75	.75	.375	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094578	**SCMCN163**	1.00	1.00	.500	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15



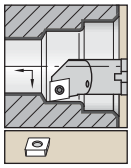




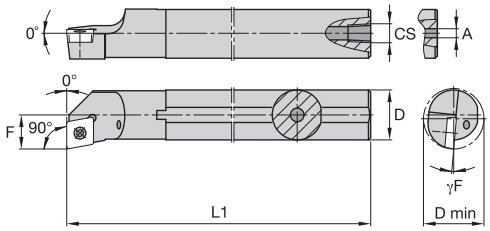
SCRC 15°

order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	insert screw	Torx
right hand													
1094511	**SCRCR083**	.50	.50	.548	3.50	.62	.09	CC..3252	**–**	**–**	–	**MS1155**	T15
1094513	**SCRCR103**	.63	.63	.673	4.00	.62	.09	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand													
1094512	**SCRCL083**	.50	.50	.548	3.50	.62	.09	CC..3252	**–**	**–**	–	**MS1155**	T15

Screw-On Boring Bars

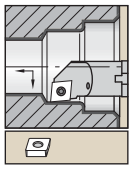


Steel shank with through coolant.

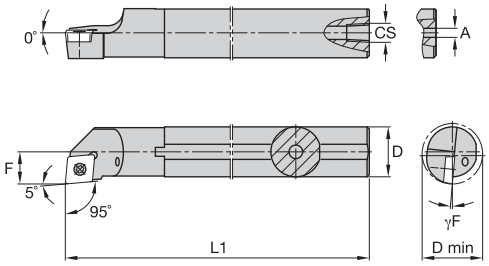


A-SCFC 0°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328560	**A06MSCFCR2**	.375	.480	.250	6.00	.13	–	-8.0	CC..2151	**MS1153**	T7
1328572	**A08RSCFCR2**	.500	.600	.312	8.00	–	1/16-27 NPT	-7.0	CC..2151	**MS1153**	T7
1328575	**A10SSCFCR2**	.625	.770	.406	10.00	–	1/8-27 NPT	-5.0	CC..2151	**MS1153**	T7
1328578	**A12SSCFCR3**	.750	.930	.500	10.00	–	1/8-27 NPT	-5.0	CC..3252	**MS1155**	T15
1328580	**A16TSCFCR3**	1.000	1.200	.640	12.00	–	1/4-18 NPT	-4.0	CC..3252	**MS1155**	T15
left hand											
1328577	**A10SSCFCL2**	.625	.770	.406	10.00	–	1/8-27 NPT	-5.0	CC..2151	**MS1153**	T7
1328579	**A12SSCFCL3**	.750	.930	.500	10.00	–	1/8-27 NPT	-5.0	CC..3252	**MS1155**	T15

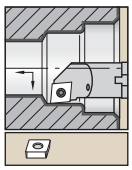


Steel shank with through coolant.

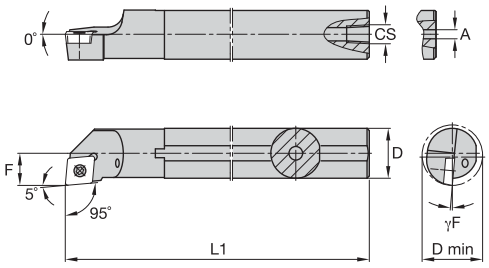


A-SCLC -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328582	**A06MSCLCR2**	.375	.480	.250	6.00	.13	–	-8.0	CC..2151	**MS1939**	T7
1328584	**A08RSCLCR2**	.500	.600	.312	8.00	–	1/16-27 NPT	-7.0	CC..2151	**MS1153**	T7
1328586	**A10SSCLCR2**	.625	.770	.406	10.00	–	1/8-27 NPT	-5.0	CC..2151	**MS1153**	T7
1328588	**A10SSCLCR3**	.625	.770	.406	10.00	–	1/8-27 NPT	-8.0	CC..3252	**MS1155**	T15
1328590	**A12SSCLCR3**	.750	.930	.500	10.00	–	1/8-27 NPT	-5.0	CC..3252	**MS1155**	T15
1328592	**A16TSCLCR3**	1.000	1.200	.640	12.00	–	1/4-18 NPT	-4.0	CC..3252	**MS1155**	T15
left hand											
1328583	**A06MSCLCL2**	.375	.480	.250	6.00	.13	–	-8.0	CC..2151	**MS1939**	T7
1328585	**A08RSCLCL2**	.500	.600	.312	8.00	–	1/16-27 NPT	-7.0	CC..2151	**MS1153**	T7
1328587	**A10SSCLCL2**	.625	.770	.406	10.00	–	1/8-27 NPT	-5.0	CC..2151	**MS1153**	T7
1328589	**A10SSCLCL3**	.625	.770	.406	10.00	–	1/8-27 NPT	-8.0	CC..3252	**MS1155**	T15
1328591	**A12SSCLCL3**	.750	.930	.500	10.00	–	1/8-27 NPT	-5.0	CC..3252	**MS1155**	T15
1328593	**A16TSCLCL3**	1.000	1.200	.640	12.00	–	1/4-18 NPT	-4.0	CC..3252	**MS1155**	T15

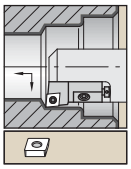


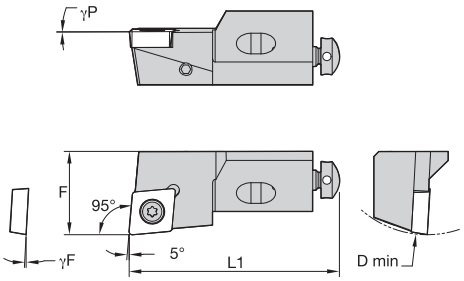
Steel shank with through coolant.



E-SCLC -5°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
2598552	**E06MSCLCR2**	.375	.480	.250	6.00	.13	-8.0	CC..2151	**MS2066**	7 IP
2598694	**E08RSCLCR2**	.500	.600	.312	8.00	.19	-7.0	CC..2151	**MS2066**	7 IP
2598696	**E10SSCLCR2**	.625	.770	.406	10.00	.22	-4.0	CC..2151	**MS2066**	7 IP
2598698	**E10SSCLCR3**	.625	.770	.406	10.00	.22	-7.0	CC..3252	**MS2055**	15 IP
2598700	**E12SSCLCR3**	.750	.930	.500	10.00	.28	-5.0	CC..3252	**MS2055**	15 IP
2598702	**E16TSCLCR3**	1.000	1.200	.640	12.00	.31	-4.0	CC..3252	**MS2055**	15 IP
left hand										
2598551	**E06MSCLCL2**	.375	.480	.250	6.00	.13	-8.0	CC..2151	**MS2066**	7 IP
2598697	**E10SSCLCL3**	.625	.770	.406	10.00	.22	-7.0	CC..3252	**MS2055**	15 IP
2598699	**E12SSCLCL3**	.750	.930	.500	10.00	.28	-5.0	CC..3252	**MS2055**	15 IP





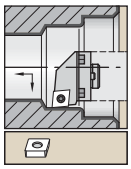
SCLC -5°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098544	**SCLCR12CA12**	1.969	.787	2.17	-3.0	.0	CC..120408/CC..432
1098545	**SCLCR16CA12**	2.362	.984	2.48	-3.0	.0	CC..120408/CC..432
left hand							
1098732	**SCLCL12CA12**	1.969	.787	2.17	-3.0	.0	CC..120408/CC..432

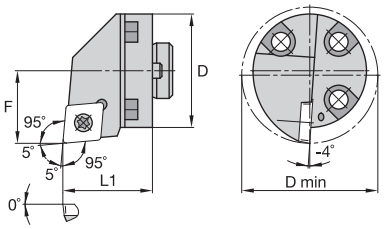
Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**MS1157**	T15	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

Screw-On Boring Heads



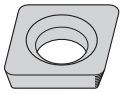
With through coolant.

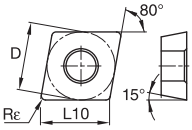


H-SCLC -5°

order number	catalog number	D	D min	F	L1	gage insert	insert screw	Torx
right hand								
1581442	**H16SCLCR3**	1.000	1.200	.640	.79	CC..3252	**MS1155**	T15

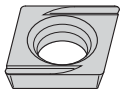
● first choice
○ alternate choice

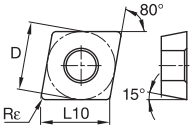




CDHB

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CDHBS4T0S0	**CDHB120601**	3,97	5/32	4,03	.159	0,1	.002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
CDHBS4T0X0	**CDHB1206X0**	3,97	5/32	4,03	.159	0,1	.002	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CDHBS4T002	**CDHB120605**	3,97	5/32	4,03	.159	0,2	.007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	●	–
CDHBS4T004	**CDHB12061**	3,97	5/32	4,03	.159	0,4	.015	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–

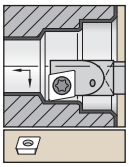




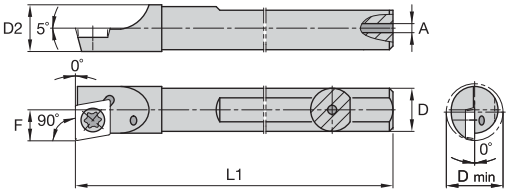
CDHH

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CDHHS4T002L	**CDHH120605L**	3,97	5/32	4,03	.159	0,2	.007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–
CDHHS4T002R	**CDHH120605R**	3,97	5/32	4,03	.159	0,2	.007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–
CDHHS4T004L	**CDHH12061L**	3,97	5/32	4,03	.159	0,4	.015	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–
CDHHS4T004R	**CDHH12061R**	3,97	5/32	4,03	.159	0,4	.015	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–

NOTE: Right-hand insert uses left-hand bars.
Left-hand insert uses right-hand bars.

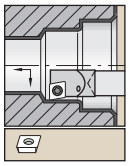


Steel shank with through coolant.

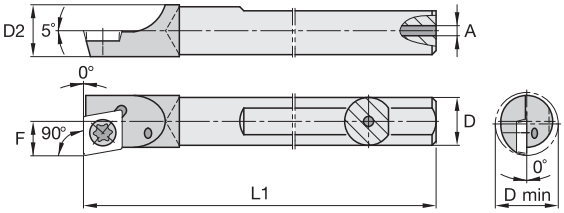


A-SCFD 0°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
1288861	**A03XSCFDR12**	.188	.244	.203	.122	2.50	.04	CD..120605	**CC11**	T6
1288869	**A04FSCFDR12**	.250	.292	.260	.152	3.00	.04	CD..120605	**CC11**	T6

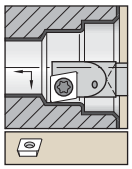


Carbide shank with through coolant.

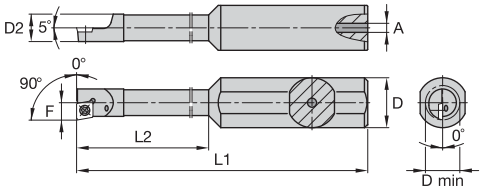


E-SCFD 0°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1270939	**E03HSCFDR12**	.187	.224	—	.117	4.00	.04	CD..120605	**CC09**	T6
1270946	**E03MSCFDR12**	.188	.224	—	.117	6.00	.04	CD..120605	**CC09**	T6
1270952	**E04HSCFDR12**	.250	.292	.273	.152	4.00	.05	CD..120605	**CC11**	T6
1270960	**E04MSCFDR12**	.250	.292	—	.152	6.00	.05	CD..120605	**CC11**	T6
1937955	**E05MSCFDR12**	.312	.356	—	.185	6.00	.09	CD..120605	**CC09**	T6
left hand										
1937946	**E04HSCFDL12**	.250	.292	—	.152	4.00	.05	CD..120605	**CC11**	T6

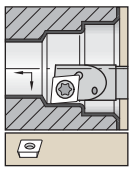


Necked steel shank with through coolant.

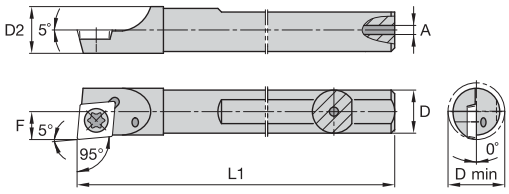


A-SCFD-S 0°

order number	catalog number	D	D min	D2	F	L1	L2	A	gage insert	insert screw	Torx
right hand											
1937976	**A0406XSCFDR12125**	.375	.292	.260	.152	2.50	1.25	.04	CD..120605	**CC11**	T6
1937992	**A0408XSCFDR12075**	.500	.292	.260	.152	2.75	.75	.04	CD..120605	**CC11**	T6

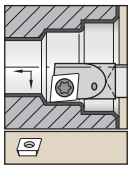


Steel shank with through coolant.

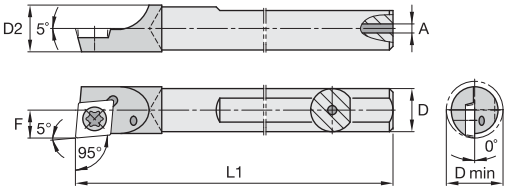


A-SCLD -5°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1288863	**A03XSCLDR12**	.188	.228	.203	.116	2.50	.04	CD..120605	**CC09**	T6
1289024	**A03XSCLDR12A**	.188	.204	—	.104	2.50	.04	CD..120605	**CC09**	T6
1288871	**A04FSCLDR12**	.250	.285	.260	.145	3.00	.04	CD..120605	**CC11**	T6
left hand										
1288862	**A03XSCLDL12**	.188	.228	.203	.116	2.50	.04	CD..120605	**CC09**	T6
1288870	**A04FSCLDL12**	.250	.285	.260	.145	3.00	.04	CD..120605	**CC11**	T6

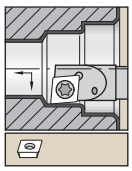


Carbide shank with through coolant.

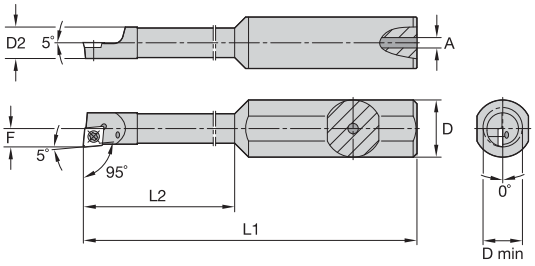


E-SCLD -5°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1271038	**E03HSCLDR12**	.187	.224	—	.117	4.00	.04	CD..120605	**CC09**	T6
1270941	**E03HSCLDR12A**	.188	.218	—	.111	4.00	.04	CD..120605	**CC09**	T6
1270947	**E03MSCLDR12A**	.188	.218	—	.111	6.00	.04	CD..120605	**CC09**	T6
1271040	**E03MSCLDR12**	.188	.224	.195	.117	6.00	.04	CD..120605	**CC09**	T6
1270954	**E04HSCLDR12**	.250	.285	.260	.145	4.00	.05	CD..120605	**CC11**	T6
1270962	**E04MSCLDR12**	.250	.285	—	.145	6.00	.05	CD..120605	**CC11**	T6
1937957	**E05MSCLDR12**	.312	.356	—	.185	6.00	.09	CD..120605	**CC11**	T6
left hand										
1270940	**E03HSCLDL12A**	.188	.218	—	.111	4.00	.04	CD..120605	**CC09**	T6
1937958	**E03MSCLDL12A**	.188	.218	—	.111	6.00	.04	CD..120605	**CC09**	T6
1270953	**E04HSCLDL12**	.250	.285	.263	.145	4.00	.05	CD..120605	**CC11**	T6
1270961	**E04MSCLDL12**	.250	.285	—	.145	6.00	.05	CD..120605	**CC11**	T6
1937956	**E05MSCLDL12**	.313	.356	—	.185	6.00	.09	CD..120605	**CC11**	T6

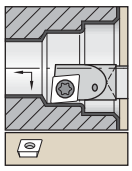


Necked steel shank with through coolant.

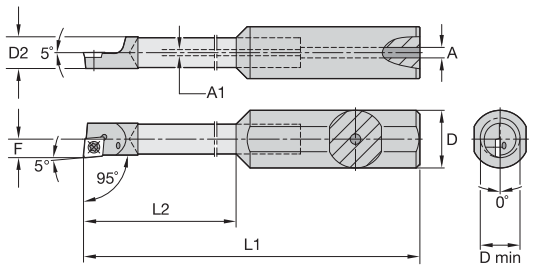


A-SCLD-S -5°

order number	catalog number	D	D min	D2	F	L1	L2	A	gage insert	insert screw	Torx
right hand											
1937960	**A2906XSCLDR1205**	.375	.204	—	.104	2.50	.50	.04	CD..120605	**CC09**	T6
1937962	**A2906XSCLDR121**	.375	.204	—	.104	2.50	1.00	.04	CD..120605	**CC09**	T6
1937970	**A3206XSCLDR121**	.375	.228	—	.116	2.50	1.00	.04	CD..120605	**CC11**	T6
1937966	**A3206XSCLDR1205**	.375	.230	—	.116	2.50	.50	.04	CD..120605	**CC09**	T6
1094663	**A0306GSCLDR12**	.375	.243	.230	.126	3.50	1.02	.08	CD..12061	**MS1454**	T5
1937974	**A0406XSCLDR12075**	.375	.285	—	.145	2.50	.75	.04	CD..120605	**CC11**	T6
1937978	**A0406XSCLDR12125**	.375	.285	—	.145	2.50	1.25	.04	CD..120605	**CC11**	T6
1094665	**A0406HSCLDR12**	.375	.300	—	.156	4.00	1.25	.08	CD..12061	**MS1454**	T5
1937982	**A2908XSCLDR121**	.500	.204	—	.104	2.75	1.00	.04	CD..120605	**CC09**	T6
1937990	**A3208XSCLDR121**	.500	.228	—	.116	2.75	1.00	.04	CD..120605	**CC09**	T6
left hand											
1094664	**A0306GSCLDL12**	.375	.243	.230	.126	3.50	1.02	.08	CD..12061	**MS1454**	T5
1094666	**A0406HSCLDL12**	.375	.300	—	.156	4.00	1.25	.08	CD..12061	**MS1454**	T5

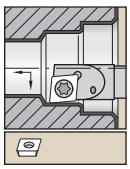


Necked carbide shank with through coolant.

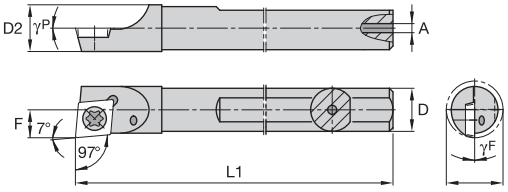


E-SCLD -5° • Stepped

order number	catalog number	D	D min	D2	F	L1	L2	A	A1	gage insert	insert screw	Torx
right hand												
1938018	**E2908XSCLDR12088**	.500	.208	.195	.104	2.38	.88	.04	.047	CD..120605	**CC09**	T6
1938022	**E3208XSCLDR121**	.500	.234	—	.119	2.50	1.00	.13	.047	CD..120605	**CC09**	T6
1950263	**E0408HSCLDR1225**	.500	.285	—	.145	4.00	2.50	.13	.047	CD..120605	**CC11**	T6
1938000	**E2910XSCLDR12088**	.625	.208	.195	.104	3.38	.88	.13	.047	CD..120605	**CC09**	T6
1938010	**E3210KSCLDR122**	.625	.234	—	.119	4.50	2.00	.13	.047	CD..120605	**CC11**	T6
1938013	**E0410HSCLDR12125**	.625	.285	—	.145	3.75	1.25	.13	.047	CD..120605	**CC11**	T5

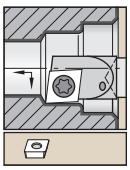


Steel shank with through coolant.

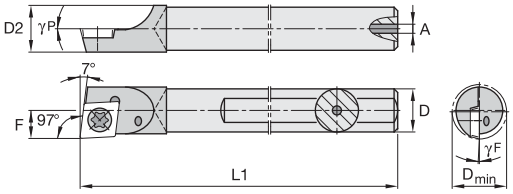


A-SC7D -7°

order number	catalog number	D	D min	D2	F	L1	A	γF°	γP°	gage insert	insert screw	Torx
right hand												
1289016	**A03XSC7DR12**	.188	.180	.166	.095	2.50	.04	.0	.0	CD..120605	**CC09**	T6
left hand												
1289015	**A03XSC7DL12**	.188	.180	.166	.095	2.50	.04	.0	.0	CD..120605	**CC09**	T6



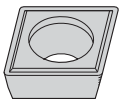
Carbide shank with through coolant.

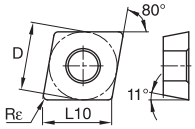


E-SC7D -7°

order number	catalog number	D	D min	D2	F	L1	A	γF°	γP°	gage insert	insert screw	Torx
right hand												
1271036	**E25MSC7DR12**	.156	.180	.164	.095	6.00	.04	.0	.0	CD..120605	**CC09**	T6

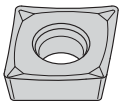
● first choice
○ alternate choice

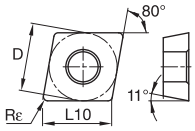




CPGH/CPGM

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
								P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
								M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
								K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
								N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
								S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
								H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
CPGT060202K	CPGM21505	6,35	1/4	6,45	.254	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CPGT060204K	CPGM2151	6,35	1/4	6,45	.254	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●	–	–	–	–
CPGH09T301	CPGM3250	9,53	3/8	9,67	.381	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–
CPGH09T302	CPGM32505	9,53	3/8	9,67	.381	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–	–
CPGH09T304	CPGM3251	9,53	3/8	9,67	.381	0,4	1/64	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	●	●	●	●	–	●	–
CPGH09T308	CPGM3252	9,53	3/8	9,67	.381	0,8	1/32	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	●	●	●	–	–	–



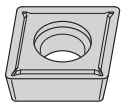


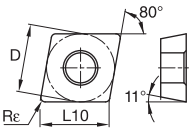
CPGT-HP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPGT060202HP	CPGT21505HP	6,35	1/4	6,45	.254	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
CPGT060204HP	CPGT2151HP	6,35	1/4	6,45	.254	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
CPGT060208HP	CPGT2152HP	6,35	1/4	6,45	.254	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
CPGT09T302HP	CPGT32505HP	9,53	3/8	9,67	.381	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
CPGT09T304HP	CPGT3251HP	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CPGT09T308HP	CPGT3252HP	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–

● first choice
○ alternate choice

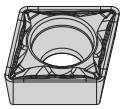
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

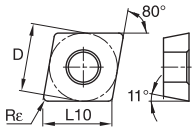




CPGT-LF

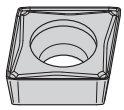
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPGT060201LF	CPGT2150LF	6,35	1/4	6,45	.254	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CPGT060202LF	CPGT21505LF	6,35	1/4	6,45	.254	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CPGT060204LF	CPGT2151LF	6,35	1/4	6,45	.254	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CPGT060208LF	CPGT2152LF	6,35	1/4	6,45	.254	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CPGT09T302LF	CPGT32505LF	9,53	3/8	9,67	.381	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CPGT09T304LF	CPGT3251LF	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CPGT09T308LF	CPGT3252LF	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–

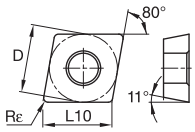




CPMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT050202FP	CPMT181505FP	5,56	7/32	5,65	.222	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
CPMT050204FP	CPMT18151FP	5,56	7/32	5,65	.222	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
CPMT060202FP	CPMT21505FP	6,35	1/4	6,45	.254	0,2	.008	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
CPMT060204FP	CPMT2151FP	6,35	1/4	6,45	.254	0,4	1/64	–	–	●	●	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
CPMT060208FP	CPMT2152FP	6,35	1/4	6,45	.254	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CPMT09T302FP	CPMT32505FP	9,53	3/8	9,67	.381	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
CPMT09T304FP	CPMT3251FP	9,53	3/8	9,67	.381	0,4	1/64	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	–
CPMT09T308FP	CPMT3252FP	9,53	3/8	9,67	.381	0,8	1/32	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●



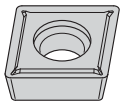


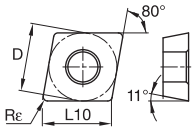
CPMT-FW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060202FW	CPMT21505FW	6,35	1/4	6,45	.254	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CPMT060204FW	CPMT2151FW	6,35	1/4	6,45	.254	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CPMT060208FW	CPMT2152FW	6,35	1/4	6,45	.254	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CPMT09T304FW	CPMT3251FW	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CPMT09T308FW	CPMT3252FW	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–

● first choice
○ alternate choice

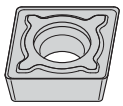
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

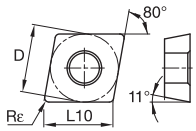




CPMT-LF

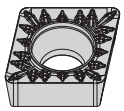
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT050202LF	CPMT181505LF	5,56	7/32	5,65	.222	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CPMT050204LF	CPMT18151LF	5,56	7/32	5,65	.222	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
CPMT060202LF	CPMT21505LF	6,35	1/4	6,45	.254	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
CPMT060204LF	CPMT2151LF	6,35	1/4	6,45	.254	0,4	1/64	–	●	●	●	●	–	–	–	●	●	●	–	●	–	●	–	●	–	–	●	●	–	–	–	●	●	–	●	–
CPMT060208LF	CPMT2152LF	6,35	1/4	6,45	.254	0,8	1/32	–	–	●	●	●	●	–	–	●	–	●	–	–	–	–	–	●	–	–	●	–	–	–	–	●	●	–	●	–
CPMT09T302LF	CPMT32505LF	9,53	3/8	9,67	.381	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CPMT09T304LF	CPMT3251LF	9,53	3/8	9,67	.381	0,4	1/64	●	●	●	●	●	●	–	–	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	●	●	–	●	–
CPMT09T308LF	CPMT3252LF	9,53	3/8	9,67	.381	0,8	1/32	–	●	●	●	●	●	–	–	●	●	●	●	●	–	●	–	●	–	–	–	●	–	–	–	●	●	–	●	–

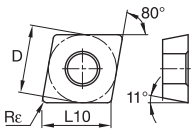




CPMT-MF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060208MF	CPMT2152MF	6,35	1/4	6,45	.254	0,8	1/32	–	●	–	●	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
CPMT09T308MF	CPMT3252MF	9,53	3/8	9,67	.381	0,8	1/32	–	●	●	●	●	–	–	–	–	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CPMT09T312MF	CPMT3253MF	9,53	3/8	9,67	.381	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

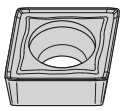


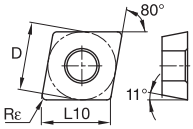


CPMT-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060208MP	CPMT2152MP	6,35	1/4	6,45	.254	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–
CPMT09T308MP	CPMT3252MP	9,53	3/8	9,67	.381	0,8	1/32	–	–	●	●	●	–	–	–	–	–	–	–	●	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–

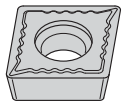
● first choice
○ alternate choice

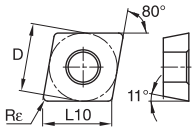




CPMT-MW

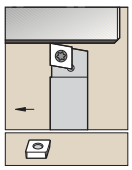
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
								P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
								M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
								K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
								N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
								S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
								H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
CPMT09T304MW	CPMT3251MW	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CPMT09T308MW	CPMT3252MW	9,53	3/8	9,67	.381	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

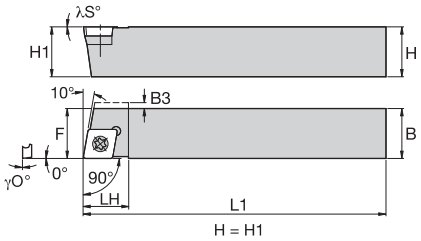


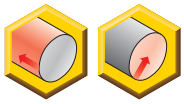


CPMT-UF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
								P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
								M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
								K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
								N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
								S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
								H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
CPMT060204UF	CPMT2151UF	6,35	1/4	6,45	.254	0,4	1/64	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CPMT09T304UF	CPMT3251UF	9,53	3/8	9,67	.381	0,4	1/64	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

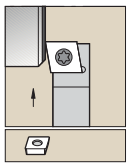


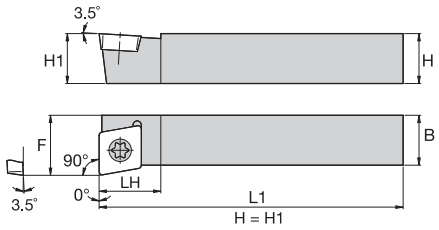


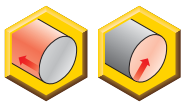


SCAP 0°

order number	catalog number	H	B	F	L1	LH	γO°	λS°	B3	gage insert	insert screw	Torx
right hand												
1095661	**SCAPR052D**	.31	.31	.312	6.00	.44	3.50	3.50	.06	CP..2151	**MS1153**	T7
1095662	**SCAPR062D**	.38	.38	.375	6.00	.44	3.50	3.50	—	CP..2151	**MS1153**	T7
1095663	**SCAPR083D**	.50	.50	.500	6.00	.62	3.00	4.00	—	CP..3252	**MS1027**	T9
left hand												
1095665	**SCAPL052D**	.31	.31	.312	6.00	.44	3.50	3.50	.06	CP..2151	**MS1153**	T7
1095667	**SCAPL083D**	.50	.50	.500	6.00	.62	3.00	4.00	—	CP..3252	**MS1027**	T9



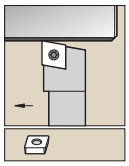


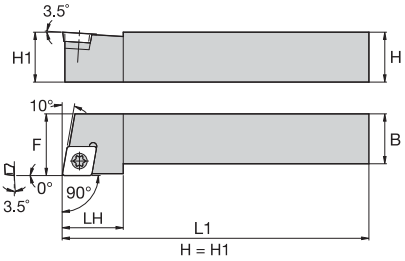


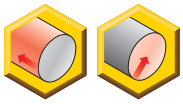
SCFP 0°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1095600	**SCFPR083V**	.50	.50	.625	3.50	.62	CP..3252	**MS1027**	T9
left hand									
1095692	**SCFPL083V**	.50	.50	.625	3.50	.62	CP..3252	**MS1027**	T9

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPMT/CPGM/CPGT/CPGW-21.5_inserts.
90° countersunk hole insert (i.e., CPGM/CPGB-32.5_). ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.



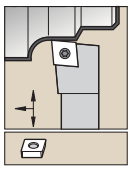


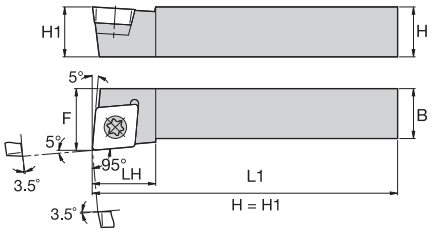


SCGP 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1095597	**SCGPR062**	.38	.38	.500	2.50	.44	CP..2151	–	–	–	**MS1153**	T7
1095598	**SCGPR083V**	.50	.50	.625	3.50	.62	CP..3252	–	–	–	**MS1027**	T9
1095596	**SCGPR123B**	.75	.75	1.000	4.50	.63	CP..3252	**SM417**	**MS1028**	3/32 IN	**MS1027**	T9
left hand												
1095689	**SCGPL062**	.38	.38	.500	2.50	.44	CP..2151	–	–	–	**MS1153**	T7
1095690	**SCGPL083V**	.50	.50	.625	3.50	.62	CP..3252	–	–	–	**MS1027**	T9
1095688	**SCGPL123B**	.75	.75	1.000	4.50	.63	CP..3252	**SM417**	**MS1028**	3/32 IN	**MS1027**	T9

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPMT/CPGM/CPGT/CPGW-21.5_inserts.
90° countersunk hole insert (i.e., CPGM/CPGB-32.5_). ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.

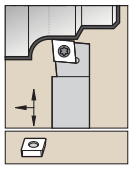


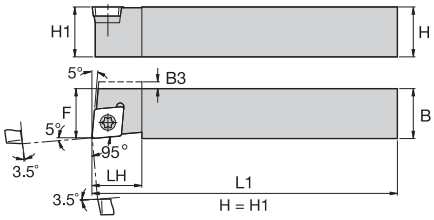


SCLP -5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1095594	**SCLPR062**	.38	.38	.500	2.50	.44	CP..2151	–	–	–	**MS1153**	T7
1095595	**SCLPR083V**	.50	.50	.625	3.50	.62	CP..3252	–	–	–	**MS1027**	T9
1095592	**SCLPR123B**	.75	.75	1.000	4.50	.62	CP..3252	**SM417**	**MS1028**	3/32 IN	**MS1027**	T9
left hand												
1095686	**SCLPL062**	.38	.38	.500	2.50	.44	CP..2151	–	–	–	**MS1153**	T7
1095687	**SCLPL083V**	.50	.50	.625	3.50	.62	CP..3252	–	–	–	**MS1027**	T9
1095685	**SCLPL123B**	.75	.75	1.000	4.50	.62	CP..3252	**SM417**	**MS1028**	3/32 IN	**MS1027**	T9

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPMT/CPGM/CPGT/CPGW-21.5_inserts.
90° countersunk hole insert (i.e., CPGM/CPGB-32.5_). ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.

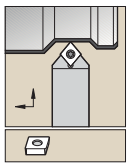


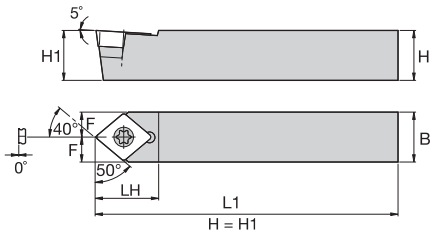


SCLP-F -5°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1095654	**SCLPRF062D**	.38	.38	.375	6.00	.44	CP..2151	**MS1153**	T7
1095655	**SCLPRF083D**	.50	.50	.500	6.00	.62	CP..3252	**MS1027**	T9
left hand									
1095658	**SCLPLF062D**	.38	.38	.375	6.00	.44	CP..2151	**MS1153**	T7
1095659	**SCLPLF083D**	.50	.50	.500	6.00	.62	CP..3252	**MS1027**	T9

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPMT/CPGM/CPGT/CPGW-21.5_inserts.
90° countersunk hole insert (i.e., CPGM/CPGB-32.5_). ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.

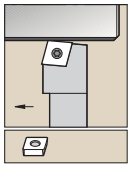


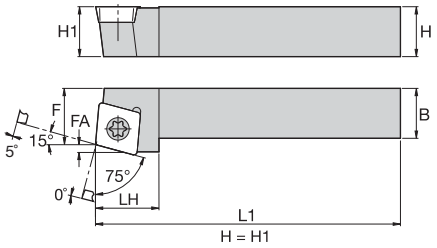


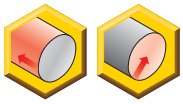
SCMP 40°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
1095606	**SCMPN062**	.38	.38	.188	2.50	.45	CP..2151	**–**	**–**	–	**MS1153**	T7
1095607	**SCMPN083V**	.50	.50	.250	3.50	.62	CP..3252	**–**	**–**	–	**MS1027**	T9
1095605	**SCMPN123B**	.75	.75	.375	4.50	.75	CP..3252	**SM417**	**MS1028**	3/32 IN	**MS1027**	T9

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPMT/CPGM/CPGT/CPGW-21.5_inserts.
90° countersunk hole insert (i.e., CPGM/CPGB-32.5_). ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.





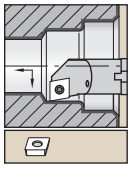


SCRP 15°

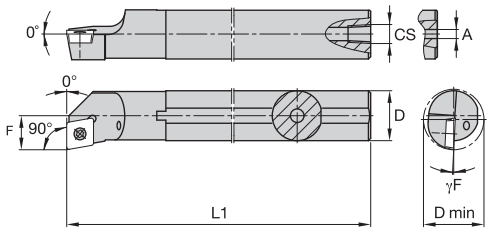
order number	catalog number	H	B	F	L1	LH	FA	gage insert	insert screw	Torx
right hand										
1095601	**SCRPR062**	.38	.38	.439	2.50	.44	.06	CP..2151	**MS1153**	T7
1095602	**SCRPR083V**	.50	.50	.537	3.50	.62	.09	CP..3252	**MS1027**	T9
left hand										
1095693	**SCRPL062**	.38	.38	.439	2.50	.44	.06	CP..2151	**MS1153**	T7
1095694	**SCRPL083V**	.50	.50	.537	3.50	.62	.09	CP..3252	**MS1027**	T9

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPMT/CPGM/CPGT/CPGW-21.5_inserts.
90° countersunk hole insert (i.e., CPGM/CPGB-32.5_). ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.

Screw-On Boring Bars



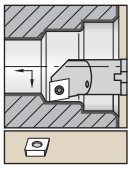
Steel shank with through coolant.



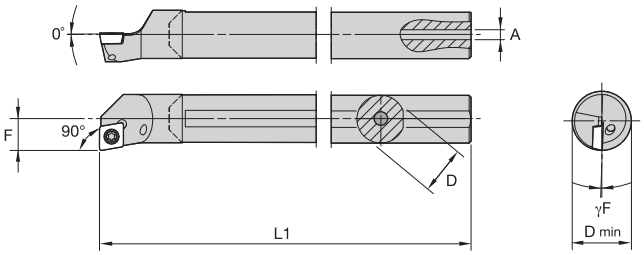
A-SCFP 0°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1094725	**A06MSCFPR2**	.375	.480	.250	6.00	.13	—	-4.0	CPMT2151	**MS1939**	T7
1094727	**A08RSCFPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-2.0	CPMT2151	**MS1153**	T7
1094729	**A10SSCFPR2**	.625	.770	.406	10.00	.16	1/8-27 NPT	.0	CPMT2151	**MS1153**	T7
1094731	**A12SSCFPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	CPMT3252	**MS1155**	T15
1094733	**A16SCFPR3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	.0	CP..3252	**MS1155**	T15
left hand											
1094726	**A06MSCFPL2**	.375	.480	.250	6.00	.13	—	-4.0	CPMT2151	**MS1939**	T7
1094728	**A08RSCFPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-2.0	CPMT2151	**MS1153**	T7
1094730	**A10SSCFPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	.0	CPMT2151	**MS1153**	T7
1094732	**A12SSCFPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	CPMT3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPGM/CPGT/CPGW-21.5_inserts.
60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_). 90° countersunk hole inserts (i.e., CPGM/CPGB-32.5_) do not fit this tool.



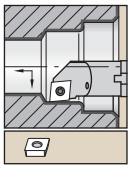
Heavy metal bar with through coolant.



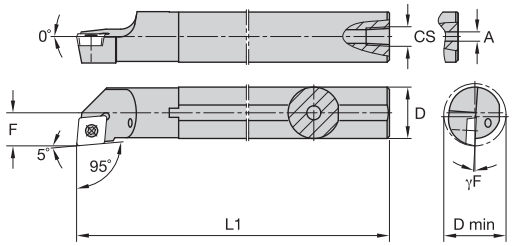
L-SCFP 0°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
3330999	**L06MSCFPR2**	.375	.480	.250	6.06	.13	-4.0	CP..2151..	**MS1939**	T7
3331000	**L08RSCFPR2**	.500	.600	.312	7.93	.16	-2.0	CP..2151..	**MS1153**	T7
3331001	**L10RSCFPR2**	.625	.770	.406	7.99	.16	.0	CP..2151..	**MS1153**	T7
3331002	**L12RSCFPR3**	.750	.930	.500	7.96	.16	-2.0	CP..3252..	**MS1155**	T15
3331033	**L16SSCFPR3**	1.000	1.200	.640	9.94	.25	.0	CP..3252..	**MS1155**	T15
left hand										
3330995	**L08RSCFPL2**	.500	.600	.312	7.93	.16	-2.0	CP..2151..	**MS1153**	T7

NOTE: ANSI/ISO compatible 68° countersunk hole insert.This tool will accept CPGM/CPGT/CPGW 21.5°_inserts.
ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW 32.5).90° countersunk hole inserts (i.e., CPGM/CPGB 32.5) do not fit this tool.



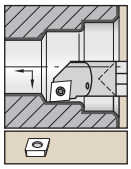
Steel shank with through coolant.



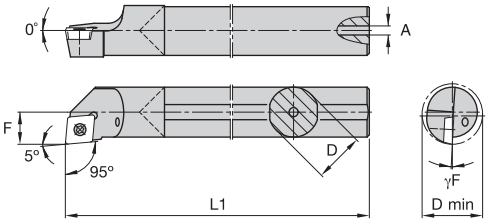
A-SCLP -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1094669	**A06MSCLPR2**	.375	.480	.250	6.00	.13	—	-6.0	CP..2151	**MS1939**	T7
1094671	**A08RSCLPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	CPMT2151	**MS1153**	T7
1094675	**A10SSCLPR3**	.625	.770	.406	10.00	.16	1/8-27 NPT	-2.0	CPMT3252	**MS1155**	T15
1094677	**A12SSCLPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	CPMT3252	**MS1155**	T15
1094679	**A16TSCLPR3**	1.000	1.200	.640	12.00	.25	1/4-18 NPT	.0	CP..3252	**MS1155**	T15
left hand											
1094670	**A06MSCLPL2**	.375	.480	.250	6.00	.13	—	-6.0	CPMT2151	**MS1939**	T7
1094672	**A08RSCLPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	CPMT2151	**MS1153**	T7
1094674	**A10SSCLPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-2.0	CPMT2151	**MS1153**	T7
1094676	**A10SSCLPL3**	.625	.770	.406	10.00	.16	1/8-27 NPT	-2.0	CPMT3252	**MS1155**	T15
1094673	**A10SSCLPR2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-2.0	CPMT2151	**MS1153**	T7
1094678	**A12SSCLPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	CPMT3252	**MS1155**	T15
1094680	**A16SCLPL3**	1.000	1.200	.640	12.00	.25	1/4-18 NPT	.0	CP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept CPGM/CPGT/CPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_). 90° countersunk hole inserts (i.e., CPGM/CPGB-32.5_) do not fit this tool.



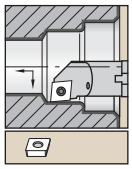
Carbide shank with through coolant.



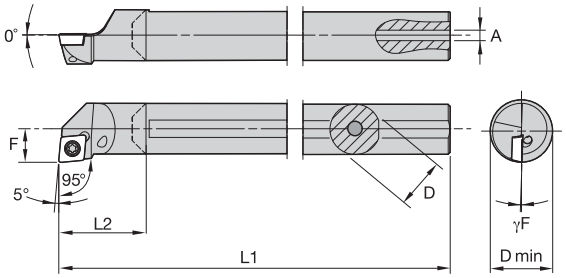
E-SCLP -5°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
1152722	**E05KSCLPR18**	.313	.415	.219	5.00	.09	-5.0	CP..18151	**MS1933**	T7
1152724	**E06SCLPR2**	.375	.480	.250	6.00	.13	-6.0	CP..2151	**MS1939**	T7
1152726	**E08SCLPR2**	.500	.600	.312	8.00	.19	-2.0	CP..2151	**MS1153**	T7
1152728	**E10SCLPR2**	.625	.770	.406	10.00	.22	-2.0	CP..2151	**MS1153**	T7
1152732	**E10SCLPR3**	.625	.770	.406	10.00	.22	-2.0	CP..3252	**MS1155**	T15
1152730	**E12SCLPR2**	.750	.930	.500	10.00	.28	-2.0	CP..2151	**MS1153**	T7
1152734	**E12SCLPR3**	.750	.930	.500	10.00	.28	-2.0	CP..3252	**MS1155**	T15
1152736	**E16SCLPR3**	1.000	1.200	.640	12.00	.31	.0	CP..3252	**MS1155**	T15
left hand										
1152723	**E05KSCLPL18**	.313	.415	.219	5.00	.09	-5.0	CP..18151	**MS1933**	T7
1152725	**E06SCLPL2**	.375	.480	.250	6.00	.13	-6.0	CP..2151	**MS1939**	T7
1152727	**E08SCLPL2**	.500	.600	.312	8.00	.19	-2.0	CP..2151	**MS1153**	T7
1152729	**E10SCLPL2**	.625	.770	.406	10.00	.22	-2.0	CP..2151	**MS1153**	T7
1152733	**E10SCLPL3**	.625	.770	.406	10.00	.22	-2.0	CP..3252	**MS1155**	T15
1152731	**E12SCLPL2**	.750	.930	.500	10.00	.28	-2.0	CP..2151	**MS1153**	T7
1152735	**E12SCLPL3**	.750	.930	.500	10.00	.28	-2.0	CP..3252	**MS1155**	T15
1152737	**E16SCLPL3**	1.000	1.200	.640	12.00	.31	.0	CP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept CPGM/CPGT/CPGW-21.5_inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_). 90° countersunk hole inserts (i.e., CPGM/CPGB-32.5_) do not fit this tool.



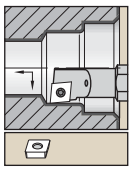
Heavy metal bar with through coolant.



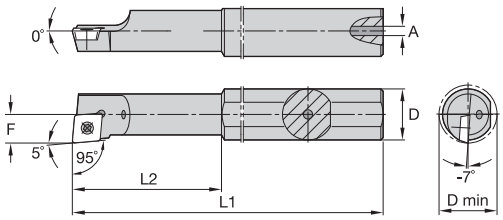
L-SCLP -5°

order number	catalog number	D	D min	F	L1	L2	A	γF°	gage insert	insert screw	Torx
right hand											
3331042	**L05MSCLPR2**	.313	.415	.219	6.00	.76	.09	-6.0	CP..2151..	**MS1939**	T7
3331043	**L06MSCLPR2**	.375	.480	.250	6.06	.91	.13	-6.0	CP..2151..	**MS1939**	T7
3331041	**L08RSCLPR2**	.500	.600	.312	7.93	.93	.16	-2.0	CP..2151..	**MS1153**	T7
3331044	**L10RSCLPR2**	.625	.770	.406	7.99	1.03	.16	-2.0	CP..2151..	**MS1153**	T7
3331045	**L10RSCLPR3**	.625	.770	.406	8.01	1.05	.16	-2.0	CP..3252..	**MS1155**	T15
3331046	**L12RSCLPR3**	.750	.930	.500	7.96	1.30	.16	-2.0	CP..3252..	**MS1155**	T15
3331047	**L16SSCLPR3**	1.000	1.200	.640	9.94	1.41	.25	.0	CP..3252..	**MS1155**	T15
left hand											
3331036	**L05MSCLPL2**	.313	.415	.219	6.00	.76	.09	-6.0	CP..2151..	**MS1939**	T7
3331035	**L06MSCLPL2**	.375	.480	.250	6.06	.91	.13	-6.0	CP..2151..	**MS1939**	T7
3331034	**L08RSCLPL2**	.500	.600	.312	7.93	.93	.16	-2.0	CP..2151..	**MS1153**	T7
3331039	**L10RSCLPL3**	.625	.770	.406	8.01	1.05	.16	-2.0	CP..3252..	**MS1155**	T15
3331038	**L12RSCLPL3**	.750	.930	.500	7.96	1.30	.16	-2.0	CP..3252..	**MS1155**	T15
3331040	**L16SSCLPL3**	1.000	1.200	.640	9.94	1.41	.25	.0	CP..3252..	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept CPGM/CPGT/CPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_). 90° countersunk hole inserts (i.e., CPGM/CPGB-32.5_) do not fit this tool.

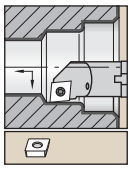


Necked steel shank with through coolant.

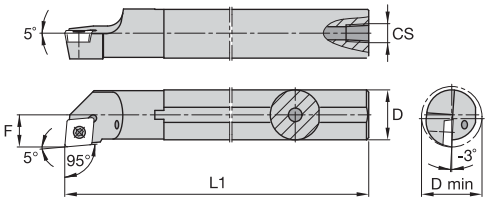


A-SCLP-06

order number	catalog number	D	D min	F	L1	L2	A	gage insert	insert screw	Torx
right hand										
1094667	**A0506KSCLPR18**	.375	.415	.214	5.00	1.63	.09	CPMT18151	**MS1933**	T7



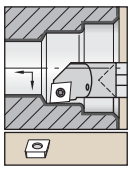
Steel shank with through coolant.



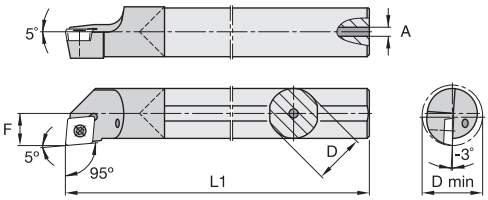
A-SCLP-AP -5°

order number	catalog number	D	D min	F	L1	CS	gage insert	insert screw	Torx
right hand									
1094953	**A10SSCLPR3AP5**	.625	.770	.406	10.00	1/8-27 NPT	CP..3252	**MS1027**	T9
1094954	**A12SSCLPR3AP5**	.750	.930	.500	10.00	1/8-27 NPT	CP..3252	**MS1027**	T9
1094955	**A16SCLPR3AP5**	1.000	1.190	.625	12.00	1/4-18 NPT	CP..3252	**MS1027**	T9
left hand									
1094956	**A10SSCLPL3AP5**	.625	.770	.406	10.00	1/8-27 NPT	CP..3252	**MS1027**	T9
1094957	**A12SSCLPL3AP5**	.750	.930	.500	10.00	1/8-27 NPT	CP..3252	**MS1027**	T9
1094958	**A16SCLPL3AP5**	1.000	1.190	.625	12.00	1/4-18 NPT	CP..3252	**MS1027**	T9

NOTE: 90° countersunk hole insert (i.e., CPGM/CPGB-32.5_)
ANSI/ISO compatible 60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.



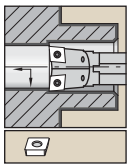
Carbide shank with through coolant.



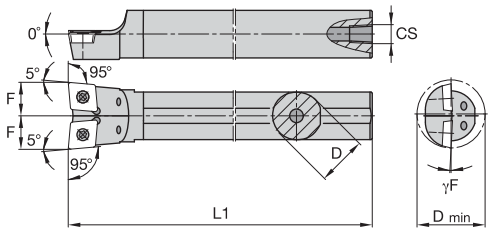
E-SCLP-AP -5°

order number	catalog number	D	D min	F	L1	A	gage insert	insert screw	Torx
right hand									
1152692	**E12SCLPR3AP5**	.750	1.000	.500	10.00	.28	CP..3252	**MS1027**	T9
1152693	**E16SCLPR3AP5**	1.000	1.190	.625	12.00	.31	CP..3252	**MS1027**	T9
left hand									
1152694	**E12SCLPL3AP5**	.750	1.000	.500	10.00	.28	CP..3252	**MS1027**	T9
1152695	**E16SCLPL3AP5**	1.000	1.190	.625	12.00	.31	CP..3252	**MS1027**	T9

NOTE: 90° countersunk hole insert (i.e., CPGM/CPGB-32.5_)
ANSI/ISO compatible 60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_) do not fit this tool.



Steel shank with through coolant.

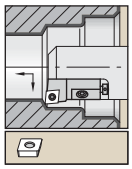


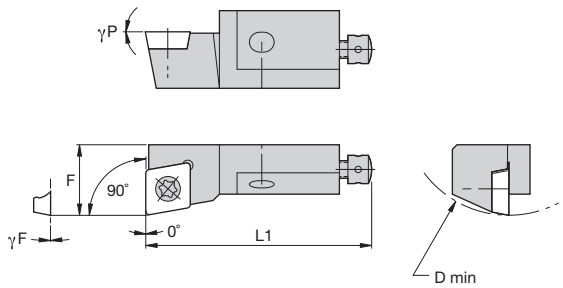
A-SCLP-D -5°

order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	insert screw	Torx
1094757	**A08SCLPR2D**	.500	.650	.312	8.00	1/16-27 NPT	-3.0	CP..2151	**MS1153**	T7
1094758	**A10SCLPR2D**	.625	.842	.406	10.00	1/8-27 NPT	-2.0	CP..2151	**MS1153**	T7
1094759	**A12SCLPR3D**	.750	1.030	.500	10.00	1/8-27 NPT	-2.0	CP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept CPGM/CPGT/CPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., CPMT/CPGT/CPGW-32.5_). 90° countersunk hole inserts (i.e., CPGM/CPGB-32.5_) do not fit this tool.

Screw-On Cartridges





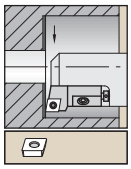
SCFP 0°

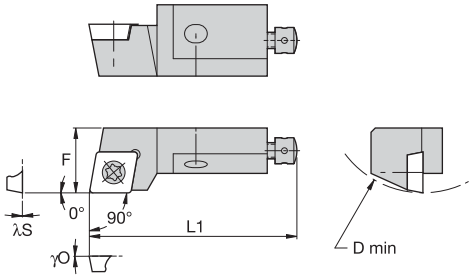
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098551	**SCFPR06CA05**	.787	.315	.98	.0	.0	CP..050204/CP..18151
1082671	**SCFPR08CA06**	.984	.394	1.26	.0	.0	CP..060204/CP..2151
1797235	**SCFPR10CA09**	1.575	.551	1.97	.0	.0	CP..09T308/CP..3252
left hand							
1098766	**SCFPL08CA06**	.984	.394	1.26	.0	.0	CP..060204/CP..2151

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.787	**MS1933**	T7	**KUAM34**	1.5 mm	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**
1.575	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





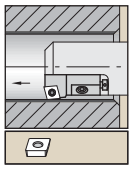
SCGP 0°

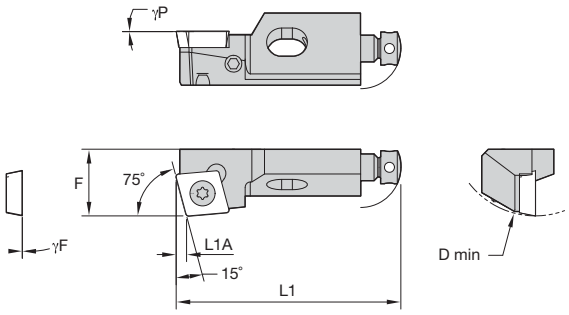
order number	catalog number	D min	F	L1	λS°	γO°	gage insert
right hand							
1098554	**SCGPR08CA06**	.984	.394	1.26	.0	.0	CP..060204/CP..2151

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





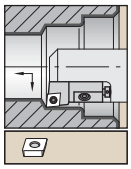
SCKP 15°

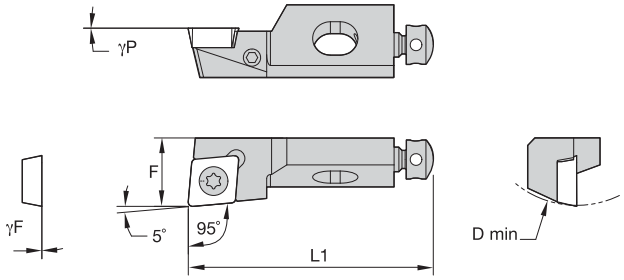
order number	catalog number	D min	F	L1	L1A	γF°	γP°	gage insert
right hand								
1098552	**SCKPR08CA06**	.984	.394	1.26	.061	.0	.0	CP..060204/CP..2151
left hand								
1098763	**SCKPL08CA06**	.984	.394	1.26	.061	.0	.0	CP..060204/CP..2151

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





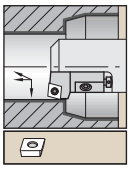
SCLP -5°

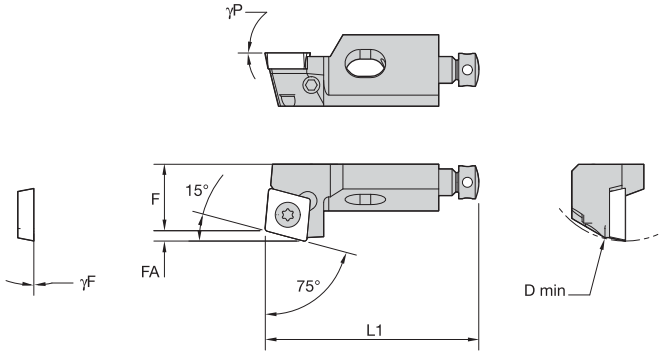
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098541	**SCLPR06CA05**	.787	.315	.98	.0	.0	CP..050204/CP..18151
1098542	**SCLPR08CA06**	.984	.394	1.26	.0	.0	CP..060204/CP..2151
1098543	**SCLPR10CA09**	1.575	.551	1.97	.0	.0	CP..09T308/CP..3252
left hand							
1098730	**SCLPL08CA06**	.984	.394	1.26	.0	.0	CP..060204/CP..2151
1098731	**SCLPL10CA09**	1.575	.551	1.97	.0	.0	CP..09T308/CP..3252

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole inserts (i.e., CPMT/CPGT/CPGW-32.5_).90° countersunk hole inserts (i.e., CPGM/CPGB-32.5_) do not fit this tool.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.787	**MS1933**	T7	**KUAM34**	1.5 mm	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**
1.575	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





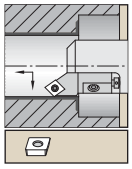
SCRP 15°

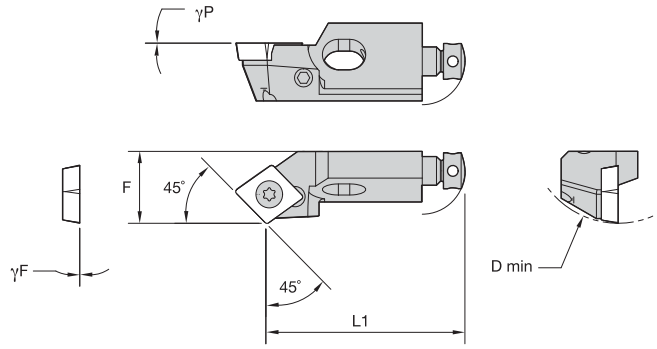
order number	catalog number	D min	F	FA	L1	γF°	γP°	gage insert
right hand								
1098555	**SCRPR08CA06**	.984	.394	.059	1.26	.0	.0	CP..060204/CP..2151

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





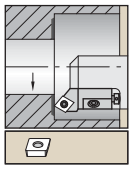
SCSP 45°

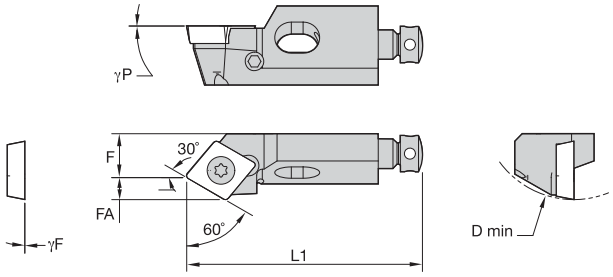
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098328	**SCSPR06CA05**	.787	.315	.83	.0	.0	CP..050204/CP..18151
1086536	**SCSPR08CA06**	.984	.394	1.10	.0	.0	CP..060204/CP..2151
left hand							
1098548	**SCSPL06CA05**	.787	.315	.83	.0	.0	CP..050204/CP..18151
1098549	**SCSPL08CA06**	.984	.394	1.10	.0	.0	CP..060204/CP..2151

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.787	**MS1933**	T7	**–**	–	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





SCTP 30°

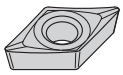
order number	catalog number	D min	F	FA	L1	γF°	γP°	gage insert
right hand								
1098556	**SCTPR06CA05**	.787	.217	.102	.98	.0	.0	CP..050204/CP..18151
1098557	**SCTPR08CA06**	.984	.236	.116	1.26	.0	.0	CP..060204/CP..2151
left hand								
1098736	**SCTPL08CA06**	.984	.236	.116	1.26	.0	.0	CP..060204/CP..2151

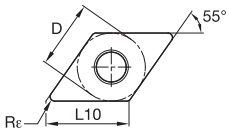
NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts CPGM/CPGT/CPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
.787	**MS1933**	T7	**—**	—	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**

● first choice
○ alternate choice

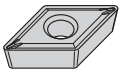


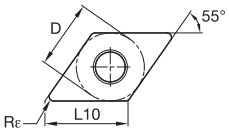


DCGT-HP

P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●						
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●					
K		○	○	○	○	○			●	●	●	●	●	●							●	●	●		●	●	●	●		●	●						
N																					●	●	●		●	●	●	●	●								
S																					●	●	●	●	●	●	●	●									
H																																					

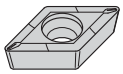
ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																												
DCGT070202HP	DCGT21505HP	6,35	1/4	7,75	.305	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
DCGT070204HP	DCGT2151HP	6,35	1/4	7,75	.305	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
DCGT070208HP	DCGT2152HP	6,35	1/4	7,75	.305	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
DCGT11T302HP	DCGT32505HP	9,53	3/8	11,63	.458	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
DCGT11T304HP	DCGT3251HP	9,53	3/8	11,63	.458	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
DCGT11T308HP	DCGT3252HP	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–

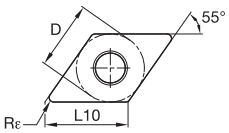




DCGT-LF

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																												
DCGT0702X0LF	DCGT215X0LF	6,35	1/4	7,75	.305	0,0	.0015	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
DCGT070201LF	DCGT2150LF	6,35	1/4	7,75	.305	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DCGT11T3X0LF	DCGT325X0LF	9,53	3/8	11,63	.458	0,0	.0015	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DCGT11T301LF	DCGT3250LF	9,53	3/8	11,63	.458	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DCGT150408LF	DCGT432LF	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–

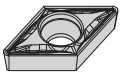


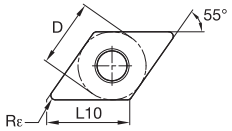


DCMT-11

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																												
DCMT07020211	DCMT2150511	6,35	1/4	7,75	.305	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
DCMT07020411	DCMT215111	6,35	1/4	7,75	.305	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
DCMT11T30411	DCMT325111	9,53	3/8	11,63	.458	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
DCMT11T30811	DCMT325211	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

● first choice
○ alternate choice

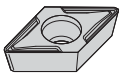


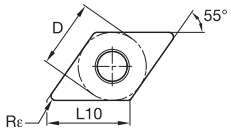


DCMT-FP

	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

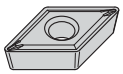
ISO catalog wnumber	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in																										
DCMT070202FP	DCMT21505FP	6,35	1/4	7,75	.305	0,2		–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	●
DCMT070204FP	DCMT2151FP	6,35	1/4	7,75	.305	0,4		–	–	●	–	●	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–
DCMT070208FP	DCMT2152FP	6,35	1/4	7,75	.305	0,8		●	–	–	●	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T302FP	DCMT32505FP	9,53	3/8	11,63	.458	0,2		–	●	–	●	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	–	–	–	–	●
DCMT11T304FP	DCMT3251FP	9,53	3/8	11,63	.458	0,4		●	●	●	●	●	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	●	–	–	–	–	●
DCMT11T308FP	DCMT3252FP	9,53	3/8	11,63	.458	0,8		●	●	●	–	●	–	–	–	–	–	●	–	●	●	●	–	–	–	–	–	●	●	–	–	–	–	●
DCMT11T312FP	DCMT3253FP	9,53	3/8	11,63	.458	1,2		–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DCMT150404FP	DCMT431FP	12,70	1/2	15,50	.610	0,4		–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
DCMT150408FP	DCMT432FP	12,70	1/2	15,50	.610	0,8		●	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–

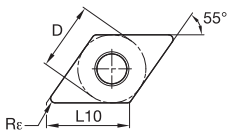




DCMT-FW

	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT11T304FW	DCMT3251FW	9,53	3/8	11,63	.458	0,2	.007	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
DCMT11T308FW	DCMT3252FW	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

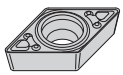


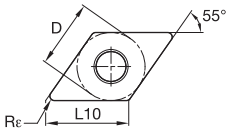


DCMT-LF

	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT070202LF	DCMT21505LF	6,35	1/4	7,75	.305	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	–	–
DCMT070204LF	DCMT2151LF	6,35	1/4	7,75	.305	0,4	1/64	–	●	●	●	●	●	–	–	●	–	–	–	●	–	–	–	–	●	●	–	●	–
DCMT11T302LF	DCMT32505LF	9,53	3/8	11,63	.458	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
DCMT11T304LF	DCMT3251LF	9,53	3/8	11,63	.458	0,4	1/64	●	●	●	●	●	●	–	–	●	–	–	–	●	–	–	–	–	●	●	–	●	–
DCMT11T308LF	DCMT3252LF	9,53	3/8	11,63	.458	0,8	1/32	–	●	●	●	●	–	–	–	●	–	–	–	●	–	–	●	–	●	●	–	●	–
DCMT11T312LF	DCMT3253LF	9,53	3/8	11,63	.458	1,2	3/64	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DCMT150404LF	DCMT431LF	12,70	1/2	15,50	.610	0,4	1/64	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
DCMT150408LF	DCMT432LF	12,70	1/2	15,50	.610	0,8	1/32	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

● first choice
○ alternate choice

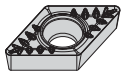


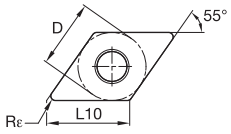


DCMT-MF

P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●			
S																				●	●	●	●	●	●	●	●				
H																																					

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
DCMT11T304MF	DCMT3251MF	9,53	3/8	11,63	.458	0,4	1/64	–	●	●	●	●	●	–	–	–	–	●	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–
DCMT11T308MF	DCMT3252MF	9,53	3/8	11,63	.458	0,8	1/32	–	●	●	●	●	●	–	–	–	–	●	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–
DCMT11T312MF	DCMT3253MF	9,53	3/8	11,63	.458	1,2	3/64	–	●	●	●	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

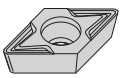


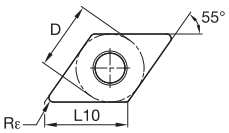


DCMT-MP

P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●			
S																				●	●	●	●	●	●	●	●				
H																																					

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
DCMT11T304MP	DCMT3251MP	9,53	3/8	11,63	.458	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T308MP	DCMT3252MP	9,53	3/8	11,63	.458	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T312MP	DCMT3253MP	9,53	3/8	11,63	.458	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

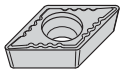


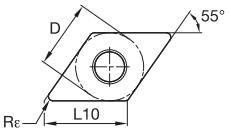


DCMT-MW

P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●			
S																				●	●	●	●	●	●	●	●				
H																																					

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
DCMT11T304MW	DCMT3251MW	9,53	3/8	11,63	.458	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T308MW	DCMT3252MW	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

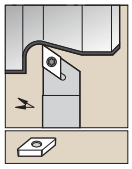


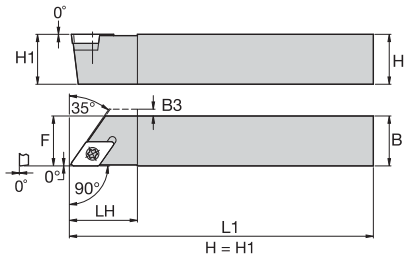


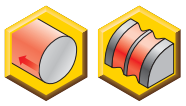
DCMT-UF

P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●			
S																				●	●	●	●	●	●	●	●				
H																																					

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
DCMT070204UF	DCMT2151UF	6,35	1/4	7,75	.305	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DCMT11T302UF	DCMT32505UF	9,53	3/8	11,63	.458	0,2	.008	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DCMT11T304UF	DCMT3251UF	9,53	3/8	11,63	.458	0,4	1/64	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DCMT11T308UF	DCMT3252UF	9,53	3/8	11,63	.458	0,8	1/32	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

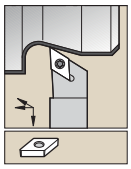


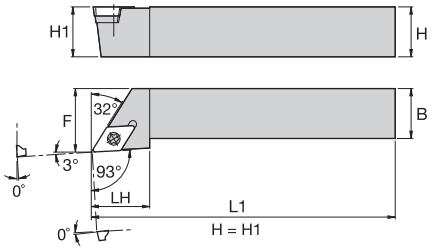


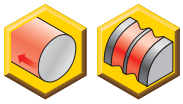


SDAC 0°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	hex	insert screw	Torx
right hand													
1094595	**SDACR062D**	.38	.38	.375	6.00	.62	–	DC..2151	**–**	**–**	–	**MS1153**	T7
1094597	**SDACR082D**	.50	.50	.500	6.00	.62	–	DC..2151	**–**	**–**	–	**MS1153**	T7
1094599	**SDACR103B**	.63	.63	.625	4.50	.88	–	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1771940	**SDACR083D**	.50	.50	.500	6.00	.88	.06	DC..3252	**–**	**–**	–	**MS1155**	T15
left hand													
1094596	**SDACL062D**	.38	.38	.375	6.00	.62	–	DC..2151	**–**	**–**	–	**MS1153**	T7
1094598	**SDACL082D**	.50	.50	.500	6.00	.62	–	DC..2151	**–**	**–**	–	**MS1153**	T7
1094600	**SDACL103B**	.63	.63	.625	4.50	.88	–	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1771941	**SDACL083D**	.50	.50	.500	6.00	.88	.06	DC..3252	**–**	**–**	–	**MS1155**	T15

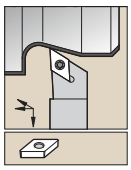


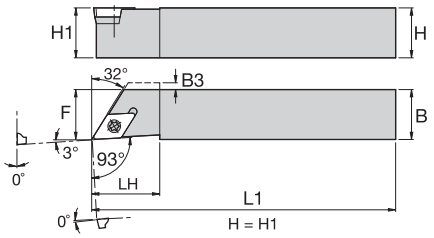


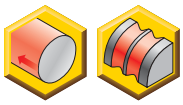


SDJC -3°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094519	**SDJCR062**	.38	.38	.500	2.50	.62	DC..2151	–	–	–	**MS1153**	T7
1094521	**SDJCR082**	.50	.50	.625	3.50	.62	DC..070204	–	–	–	**MS1153**	T7
1094523	**SDJCR102**	.63	.63	.750	4.00	.62	DC..2151	–	–	–	**MS1153**	T7
1094525	**SDJCR083**	.50	.50	.625	3.50	.88	DC..3252	–	–	–	**MS1155**	T15
1094527	**SDJCR103**	.63	.63	.750	4.00	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094529	**SDJCR123**	.75	.75	1.000	4.50	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094531	**SDJCR163**	1.00	1.00	1.250	6.00	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094520	**SDJCL062**	.38	.38	.500	2.50	.62	DC..2151	–	–	–	**MS1153**	T7
1094522	**SDJCL082**	.50	.50	.625	3.50	.62	DC..2151	–	–	–	**MS1153**	T7
1094524	**SDJCL102**	.63	.63	.750	4.00	.62	DC..2151	–	–	–	**MS1153**	T7
1094526	**SDJCL083**	.50	.50	.625	3.50	.88	DC..3252	–	–	–	**MS1155**	T15
1094528	**SDJCL103**	.63	.63	.750	4.00	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094530	**SDJCL123**	.75	.75	1.000	4.50	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094532	**SDJCL163**	1.00	1.00	1.250	6.00	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15

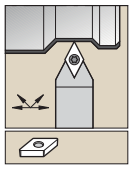


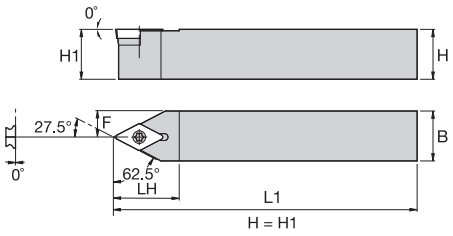




SDJC-F -3°

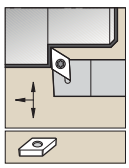
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094601	**SDJCRF062D**	.38	.38	.375	6.00	.62	DC..2151	–	–	–	**MS1153**	T7
1094603	**SDJCRF082D**	.50	.50	.500	6.00	.62	DC..2151	–	–	–	**MS1153**	T7
1232019	**SDJCRF083D**	.50	.50	.500	6.00	.88	DC..3252	–	–	–	**MS1155**	T15
1094605	**SDJCRF103B**	.63	.63	.625	4.50	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094602	**SDJCLF062D**	.38	.38	.375	6.00	.62	DC..2151	–	–	–	**MS1153**	T7
1094604	**SDJCLF082D**	.50	.50	.500	6.00	.62	DC..2151	–	–	–	**MS1153**	T7
1886490	**SDJCLF083D**	.50	.50	.500	6.00	.88	DC..3252	–	–	–	**MS1155**	T15
1094606	**SDJCLF103B**	.63	.63	.625	4.50	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15

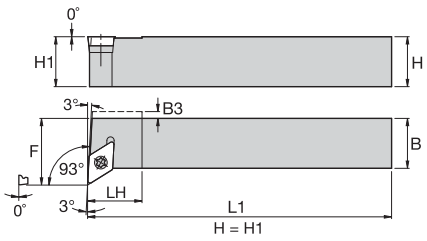




SDPC 27.5°

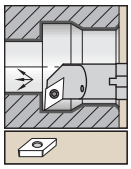
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
1771942	**SDPCN062D**	.38	.38	1.875	6.00	.62	DC..2151	**–**	**–**	–	**MS1153**	T7
1772113	**SDPCN082D**	.50	.50	.250	6.00	.62	DC..2151	**–**	**–**	–	**MS1153**	T7
1772114	**SDPCN083D**	.50	.50	.250	6.00	.88	DC..3252	**–**	**–**	–	**MS1155**	T15
1772115	**SDPCN103B**	.63	.63	.313	4.50	.88	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15



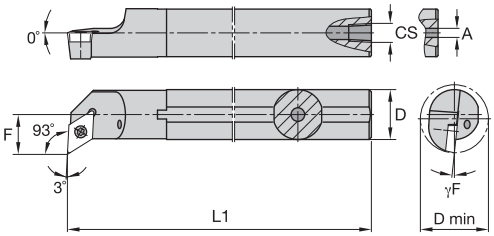


SDUC -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	hex	insert screw	Torx
right hand													
1095645	**SDUCR082**	.50	.50	.670	3.50	.50	–	DC..2151	**–**	**–**	–	**MS1153**	T7
1095644	**SDUCR083**	.50	.50	.746	3.50	.62	.12	DC..3252	**–**	**–**	–	**MS1155**	T15
1095647	**SDUCR103**	.63	.63	.871	4.00	.62	–	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand													
1095649	**SDUCL082**	.50	.50	.670	3.50	.50	–	DC..2151	**–**	**–**	–	**MS1153**	T7
1095648	**SDUCL083**	.50	.50	.746	3.50	.62	.12	DC..3252	**–**	**–**	–	**MS1155**	T15
1095651	**SDUCL103**	.63	.63	.871	4.00	.62	–	DC..3252	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15

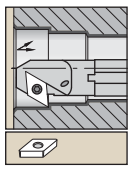


Steel shank with through coolant.

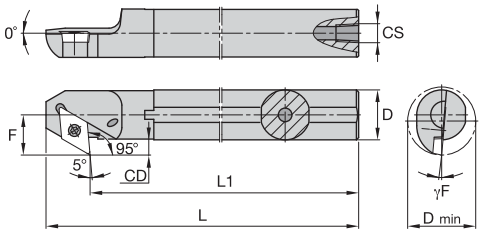


A-SDUC -3°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328616	**A06MSDUCR2**	.375	.600	.375	6.00	.13	—	-7.0	DC..2151	**MS1153**	T7
1328619	**A08RSDUCR2**	.500	.730	.437	8.00	.16	1/16-27 NPT	-5.0	DC..2151	**MS1153**	T7
1328623	**A10SSDUCR2**	.625	.850	.500	10.00	.16	1/8-27 NPT	-4.0	DC..2151	**MS1153**	T7
1328625	**A12SSDUCR3**	.750	.980	.562	10.00	—	1/8-27 NPT	-5.0	DC..3252	**MS1155**	T15
1328628	**A16TSDUCR3**	1.000	1.300	.750	12.00	—	1/4-18 NPT	-3.0	DC..3252	**MS1155**	T15
left hand											
1328617	**A06MSDUCL2**	.375	.600	.375	6.00	.13	—	-7.0	DC..2151	**MS1153**	T7
1328621	**A08RSDUCL2**	.500	.730	.437	8.00	.16	1/16-27 NPT	-5.0	DC..2151	**MS1153**	T7
1328624	**A10SSDUCL2**	.625	.850	.500	10.00	.16	1/8-27 NPT	-4.0	DC..2151	**MS1153**	T7
1328626	**A12SSDUCL3**	.750	.980	.562	10.00	—	1/8-27 NPT	-5.0	DC..3252	**MS1155**	T15
1328629	**A16TSDUCL3**	1.000	1.300	.750	12.00	—	1/4-18 NPT	-3.0	DC..3252	**MS1155**	T15



Steel shank with through coolant.

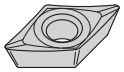


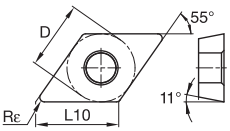
A-SDXC -5°

order number	catalog number	D	D min	F	L1	CD	L	CS	γF°	gage insert	insert screw	Torx
right hand												
1328630	**A08RSDXCR2**	.500	.730	.437	8.00	.187	8.50	1/16-27 NPT	-6.0	DC..2151	**MS1153**	T7
1328637	**A12SSDXCR3**	.750	.980	.562	10.00	.187	10.63	1/8-27 NPT	-5.0	DC..3252	**MS1155**	T15
1328639	**A16TSDXCR3**	1.000	1.300	.750	12.00	.250	12.63	1/4-18 NPT	-3.0	DC..3252	**MS1155**	T15
left hand												
1328632	**A08RSDXCL2**	.500	.730	.437	8.00	.187	8.50	1/16-27 NPT	-6.0	DC..2151	**MS1153**	T7
1328640	**A16TSDXCL3**	1.000	1.300	.750	12.00	.250	12.63	1/4-18 NPT	-3.0	DC..3252	**MS1155**	T15

● first choice
○ alternate choice

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

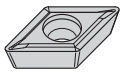


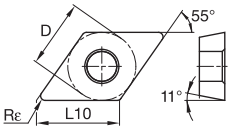


DPGT-HP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DPGT070202HP	DPGT21505HP	6,35	1/4	7,75	.305	0,2	.008
DPGT070204HP	DPGT2151HP	6,35	1/4	7,75	.305	0,4	1/64
DPGT070208HP	DPGT2152HP	6,35	1/4	7,75	.305	0,8	1/32
DPGT11T304HP	DPGT3251HP	9,53	3/8	11,63	.458	0,4	1/64
DPGT11T308HP	DPGT3252HP	9,53	3/8	11,63	.458	0,8	1/32

DPGT070202HP	DPGT21505HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–
DPGT070204HP	DPGT2151HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–
DPGT070208HP	DPGT2152HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DPGT11T304HP	DPGT3251HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	–	●	–	–
DPGT11T308HP	DPGT3252HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–

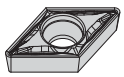


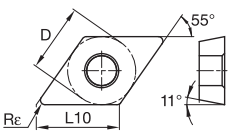


DPGT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DPGT070201LF	DPGT2150LF	6,35	1/4	7,75	.305	0,1	.004
DPGT070202LF	DPGT21505LF	6,35	1/4	7,75	.305	0,2	.008
DPGT070204LF	DPGT2151LF	6,35	1/4	7,75	.305	0,4	1/64
DPGT11T301LF	DPGT3250LF	9,53	3/8	11,63	.458	0,1	.004
DPGT11T302LF	DPGT32505LF	9,53	3/8	11,63	.458	0,2	.008
DPGT11T304LF	DPGT3251LF	9,53	3/8	11,63	.458	0,4	1/64
DPGT11T308LF	DPGT3252LF	9,53	3/8	11,63	.458	0,8	1/32

DPGT070201LF	DPGT2150LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPGT070202LF	DPGT21505LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
DPGT070204LF	DPGT2151LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DPGT11T301LF	DPGT3250LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPGT11T302LF	DPGT32505LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DPGT11T304LF	DPGT3251LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DPGT11T308LF	DPGT3252LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–



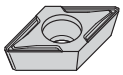


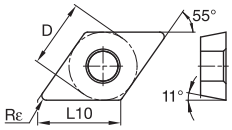
DPMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
DPMT070202FP	DPMT21505FP	6,35	1/4	7,75	.305	0,2	.008
DPMT070204FP	DPMT2151FP	6,35	1/4	7,75	.305	0,4	1/64
DPMT070208FP	DPMT2152FP	6,35	1/4	7,75	.305	0,8	1/32
DPMT11T304FP	DPMT3251FP	9,53	3/8	11,63	.458	0,4	1/64
DPMT11T308FP	DPMT3252FP	9,53	3/8	11,63	.458	0,8	1/32

DPMT070202FP	DPMT21505FP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DPMT070204FP	DPMT2151FP	–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	●
DPMT070208FP	DPMT2152FP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
DPMT11T304FP	DPMT3251FP	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
DPMT11T308FP	DPMT3252FP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●

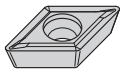
● first choice
○ alternate choice

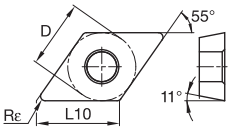




DPMT-FW

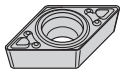
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070204FW	DPMT2151FW	6,35	1/4	7,75	.305	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–
DPMT070208FW	DPMT2152FW	6,35	1/4	7,75	.305	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–

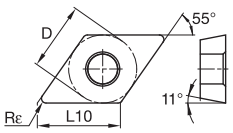




DPMT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070202LF	DPMT21505LF	6,35	1/4	7,75	.305	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
DPMT070204LF	DPMT2151LF	6,35	1/4	7,75	.305	0,4	1/64	–	●	●	●	●	–	–	–	●	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
DPMT11T302LF	DPMT32505LF	9,53	3/8	11,63	.458	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPMT11T304LF	DPMT3251LF	9,53	3/8	11,63	.458	0,4	1/64	–	●	●	●	●	–	–	–	●	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	●	●	–	●	–
DPMT11T308LF	DPMT3252LF	9,53	3/8	11,63	.458	0,8	1/32	–	●	●	●	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–

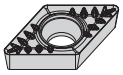


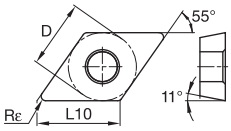


DPMT-MF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT11T308MF	DPMT3252MF	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

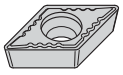
● first choice
○ alternate choice

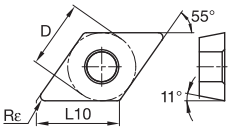




DPMT-MP

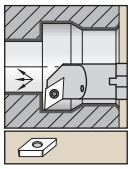
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
								P		●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
								M							○						●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
								K		○	○	○	○	○			●	●	●	●	●	●					●	●	●		●	●	●	●		●	●
								N																		●	●	●		●	●	●	●	●		
								S																		●	●	●	●	●	●	●	●			
								H																												
DPMT11T308MP	DPMT3252MP	9,53	3/8	11,63	.458	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–



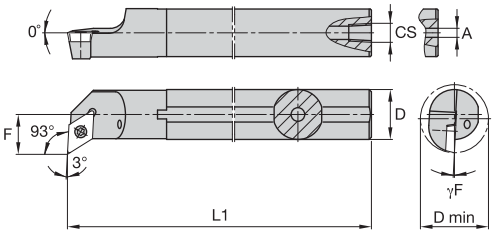


DPMT-UF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070204UF	DPMT2151UF	6,35	1/4	7,75	.305	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPMT11T304UF	DPMT3251UF	9,53	3/8	11,63	.458	0,4	1/64	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DPMT11T308UF	DPMT3252UF	9,53	3/8	11,63	.458	0,8	1/32	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

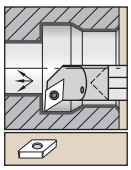


Steel shank with through coolant.

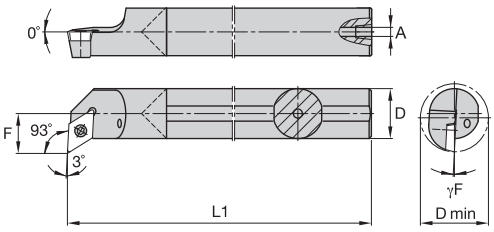


A-SDUP -3°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1094689	**A06MSDUPR2**	.375	.600	.375	6.00	.13	—	-3.0	DP..2151	**MS1153**	T7
1094691	**A08RSDUPR2**	.500	.730	.437	8.00	.13	1/16-27 NPT	.0	DP..2151	**MS1153**	T7
1094693	**A10SSDUPR2**	.625	.850	.500	10.00	.13	1/8-27 NPT	.0	DP..2151	**MS1153**	T7
1094695	**A12SSDUPR3**	.750	.980	.562	10.00	.16	1/8-27 NPT	.0	DP..3252	**MS1155**	T15
1094697	**A16TSDUPR3**	1.000	1.300	.750	12.00	.25	1/4-18 NPT	.0	DP..3252	**MS1155**	T15
left hand											
1094690	**A06MSDUPL2**	.375	.600	.375	6.00	.13	—	-3.0	DP..2151	**MS1153**	T7
1094692	**A08RSDUPL2**	.500	.730	.437	8.00	.13	1/16-27 NPT	.0	DP..2151	**MS1153**	T7
1094694	**A10SSDUPL2**	.625	.850	.500	10.00	.13	1/8-27 NPT	.0	DP..2151	**MS1153**	T7
1094696	**A12SSDUPL3**	.750	.980	.562	10.00	.16	1/8-27 NPT	.0	DP..3252	**MS1155**	T15
1094698	**A16TSDUPL3**	1.000	1.300	.750	12.00	.25	1/4-18 NPT	.0	DP..3252	**MS1155**	T15

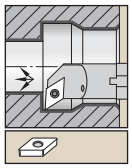


Carbide shank with through coolant.

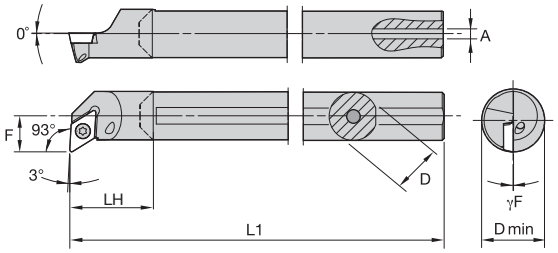


E-SDUP -3°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
1152738	**E06SDUPR2**	.375	.600	.375	6.00	.13	-2.0	DP..2151	**MS1153**	T7
1152740	**E08SDUPR2**	.500	.730	.437	8.00	.19	.0	DP..2151	**MS1153**	T7
1152742	**E10SDUPR2**	.625	.850	.500	10.00	.22	.0	DP..2151	**MS1153**	T7
1152744	**E12SDUPR2**	.750	.980	.562	10.00	.28	.0	DP..2151	**MS1153**	T7
1152746	**E12SSDUPR3**	.750	.980	.562	10.00	.28	.0	DP..3252	**MS1155**	T15
1152748	**E16TSDUPR3**	1.000	1.300	.750	12.00	.31	.0	DP..3252	**MS1155**	T15
left hand										
1152739	**E06SDUPL2**	.375	.600	.375	6.00	.13	-2.0	DP..2151	**MS1153**	T7
1152741	**E08SDUPL2**	.500	.730	.437	8.00	.19	.0	DP..2151	**MS1153**	T7
1152743	**E10SDUPL2**	.625	.850	.500	10.00	.22	.0	DP..2151	**MS1153**	T7
1152747	**E12SSDUPL3**	.750	.980	.562	10.00	.28	.0	DP..3252	**MS1155**	T15
1152749	**E16TSDUPL3**	1.000	1.300	.750	12.00	.31	.0	DP..3252	**MS1155**	T15

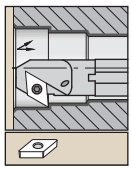


Heavy metal bar with through coolant.

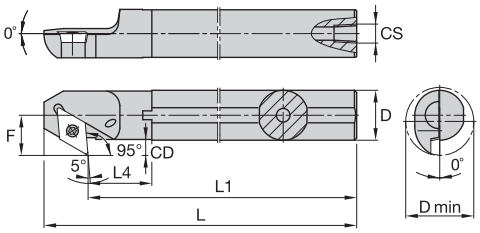


L-SDUP -3°

order number	catalog number	D	D min	F	L1	LH	A	γF°	gage insert	insert screw	Torx
right hand											
3331052	**L06MSDUPR2**	.375	.600	.375	6.06	.91	.13	-2.0	DP..2151..	**MS1153**	T7
3331073	**L08RSDUPR2**	.500	.730	.437	7.93	.93	.16	.0	DP..2151..	**MS1153**	T7
3331074	**L10RSDUPR2**	.625	.850	.500	7.99	1.03	.16	.0	DP..2151..	**MS1153**	T7
3331075	**L12RSDUPR3**	.750	.980	.562	7.96	1.30	.16	.0	DP..3252..	**MS1155**	T15
left hand											
3331048	**L06MSDUPL2**	.375	.600	.375	6.06	.91	.13	-2.0	DP..2151..	**MS1153**	T7
3331049	**L08RSDUPL2**	.500	.730	.437	7.93	.93	.16	.0	DP..2151..	**MS1153**	T7

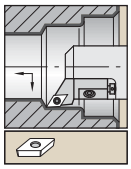


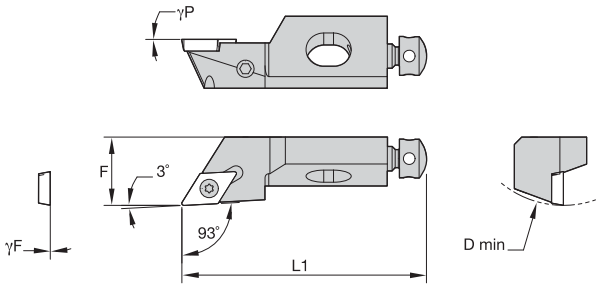
Steel shank with through coolant.



A-SDXP-5°

order number	catalog number	D	D min	F	L1	L	L4	CD	CS	gage insert	insert screw	Torx
right hand												
1094681	**A08RSDXPR2**	.500	.730	.437	8.00	8.50	—	.187	1/16-27 NPT	DP..2151	**MS1153**	T7
1094683	**A10SSDXPR2**	.625	.850	.500	10.00	10.50	—	.187	1/8-27 NPT	DP..2151	**MS1153**	T7
1094685	**A12SSDXPR3**	.750	.980	.562	10.00	10.63	—	.187	1/8-27 NPT	DP..3252	**MS1155**	T15
1094687	**A16TSDXPR3**	1.000	1.300	.750	12.00	12.66	—	.250	1/4-18 NPT	DP..3252	**MS1155**	T15
left hand												
1094682	**A08RSDXPL2**	.500	.730	.437	8.00	8.50	2.79	.187	1/16-27 NPT	DP..2151	**MS1153**	T7
1094684	**A10SSDXPL2**	.625	.850	.500	10.00	10.50	—	.187	1/8-27 NPT	DP..2151	**MS1153**	T7
1094688	**A16TSDXPL3**	1.000	1.300	.750	12.00	12.66	—	.250	1/4-18 NPT	DP..3252	**MS1155**	T15



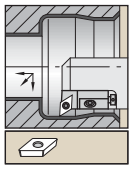


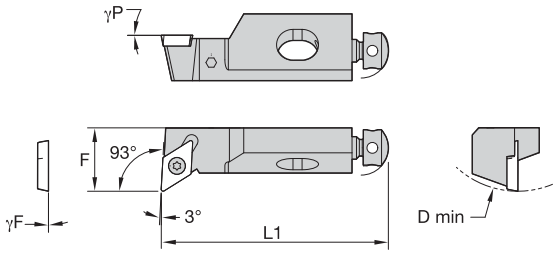
SDJP -3°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098757	**SDJPR10CA07**	1.575	.551	1.97	.0	.0	DP..070204/DP..2151
left hand							
1098758	**SDJPL10CA07**	1.575	.551	1.97	.0	.0	DP..070204/DP..2151

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





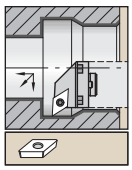
SDUP -3°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098728	**SDUPR10CA07**	1.575	.551	1.97	.0	.0	DP..070204/DP..2151

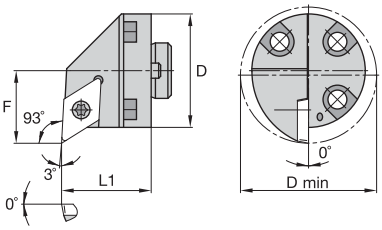
Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**

Screw-On Boring Heads



With through coolant.

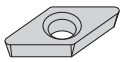


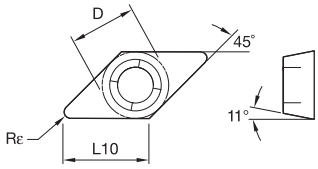
H-SDUP -3°

order number	catalog number	D	D min	F	L1	gage insert	insert screw	Torx
right hand								
1581689	**H16SDUPR3**	1.000	1.200	.640	.79	DP..3252	**MS1155**	T15
left hand								
1606537	**H16SDUPL3**	1.000	1.200	.640	.79	DP..3252	**MS1155**	T15

● first choice
○ alternate choice

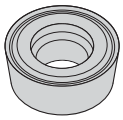
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

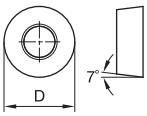




GPCD

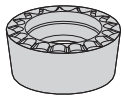
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
GPCD050102	GPCD505	3,97	5/32	5,61	.221	0,2	.007
GPCD050104	GPCD51	3,97	5/32	5,61	.221	0,4	.015

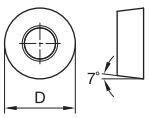




RCGH

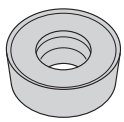
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RCGH120400	RCGH43	12,70	1/2	—	—	—	—

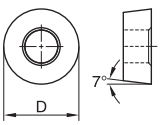




RCGH-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RCGH120400MP	RCGH43MP	12,70	1/2	—	—	—	—



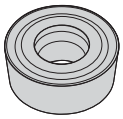


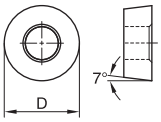
RCGT-HP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
RCGT0803M0HP	RCGT0803M0HP	8,00	.315	—	—	—	—
RCGT10T3M0HP	RCGT10T3M0HP	10,00	.394	—	—	—	—
RCGT1204M0HP	RCGT1204M0HP	12,00	.472	—	—	—	—

● first choice
○ alternate choice

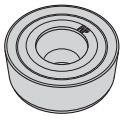
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

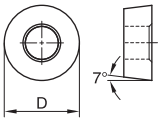




RCGT-MS

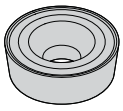
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCGT0803M0MS	RCGT0803M0MS	8,00	.315	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
RCGT1204M0MS	RCGT1204M0MS	12,00	.472	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
RCGT1606M0MS	RCGT1606M0MS	16,00	.6299	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–

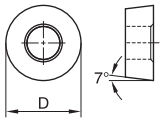




RCGT-RP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCGT0602M0RP	RCGT0602M0RP	6,00	.2362	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCGT0803M0RP	RCGT0803M0RP	8,00	.315	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCGT1204M0RP	RCGT1204M0RP	12,00	.472	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

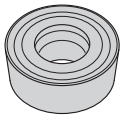


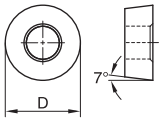


RCMH-K

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMH190600K	RCMH64K	19,05	3/4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

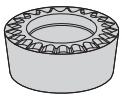
● first choice
○ alternate choice

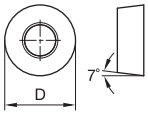




RCMT

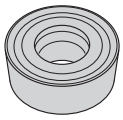
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT0602M0	RCMT0602M0	6,00	.236	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	–	●	–	●	–	–	–	–
RCMT060200	RCMT215	6,35	1/4	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
RCMT0803M0	RCMT0803M0	8,00	.315	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	●	–	–	●	–	–	–	–	●	–	–	–	–
RCMT09T300	RCMT325	9,53	3/8	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	–
RCMT10T3M0	RCMT10T3M0	10,00	.394	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–	–
RCMT1204M0	RCMT1204M0	12,00	.472	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	●	●	–	–	–	●	–	–	●	–	–	●	–	●	–	–	–	–
RCMT120400	RCMT43	12,70	1/2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–
RCMT1605M0	RCMT1605M0	16,00	.630	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	●	–	–	●	–	●	–	–	–	–
RCMT2006M0	RCMT2006M0	20,00	.787	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	●	–	–	●	–	–	●	–	●	–	–	–	–

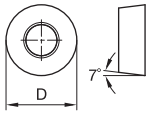




RCMT-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT0803M0MP	RCMT0803M0MP	8,00	.315	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT10T3M0MP	RCMT10T3M0MP	10,00	.394	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT1204M0MP	RCMT1204M0MP	12,00	.472	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT120400MP	RCMT43MP	12,70	1/2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT1606M0MP	RCMT1606M0MP	16,00	.630	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–



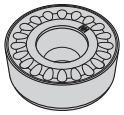


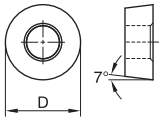
RCMT-M0

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT1204M0	RCMT1204M0	12,00	.472	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

● first choice
○ alternate choice

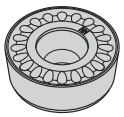
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

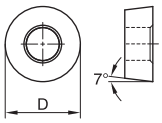




RCMT-RH

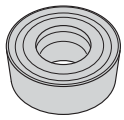
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT2006M0RH	RCMT2006M0RH	20,00	.787	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

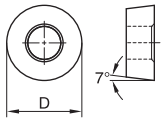




RCMX-RH

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMX2507M0RH	RCMX2507M0RH	25,00	63/64	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMX3209M0RH	RCMX3209M0RH	32,00	1.2598	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

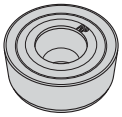


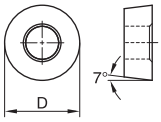


RCMT-RM

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT2006M0RM	RCMT2006M0RM	20,00	.787	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

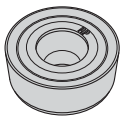
● first choice
○ alternate choice

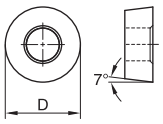




RCMT-RP

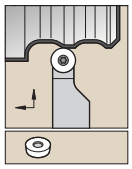
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT1204M0RP	RCMT1204M0RP	12,00	.472	–	–	–	–	–	●	●	●	●	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMT1606M0RP	RCMT1606M0RP	16,00	.630	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMT2006M0RP	RCMT2006M0RP	20,00	.787	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

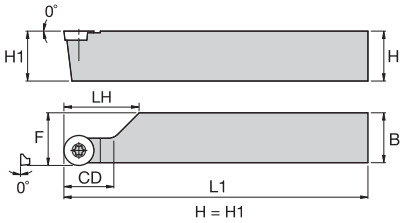




RCMX-RP

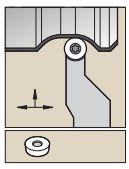
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMX1003M0RP	RCMX1003M0RP	10,00	.3937	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMX2507M0RP	RCMX2507M0RP	25,00	63/64	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

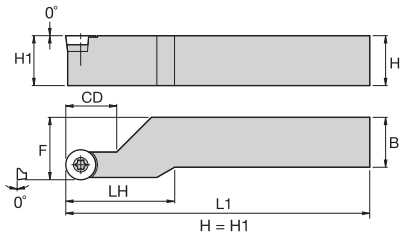




SRAC

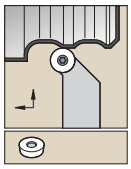
order number	catalog number	H	B	F	L1	LH	CD	gage insert	shim	insert screw	Torx Plus
right hand											
1808538	**SRACR162D**	1.00	1.00	1.020	6.00	1.00	1.00	RC..215	**–**	**MS1153**	T7
1808542	**SRACR202D**	1.25	1.25	1.270	6.00	1.25	1.00	RC..215	**–**	**MS1153**	T7
1808536	**SRACR163D**	1.00	1.00	1.020	6.00	1.00	1.00	RC..325	**SR3**	**MS1156**	T15
1808540	**SRACR203D**	1.25	1.25	1.270	6.00	1.00	1.00	RC..325	**SR3**	**MS1156**	T15
1808532	**SRACR164D**	1.00	1.00	1.020	6.00	1.00	1.00	RC..43	**SR4**	**MS1158**	T15
1808534	**SRACR204D**	1.25	1.25	1.270	6.00	1.00	1.00	RC..43	**SR4**	**MS1158**	T15
1909005	**SRACR244D**	1.50	1.50	1.520	6.00	1.00	1.00	RC..43	**SR4**	**MS1158**	T15
left hand											
1808539	**SRACL162D**	1.00	1.00	1.020	6.00	1.25	1.00	RC..215	**–**	**MS1153**	T7
1808543	**SRACL202D**	1.25	1.25	1.270	6.00	1.25	1.00	RC..215	**–**	**MS1153**	T7
1808541	**SRACL203D**	1.25	1.25	1.270	6.00	1.00	1.00	RC..325	**SR3**	**MS1156**	T15
1808533	**SRACL164D**	1.00	1.00	1.020	6.00	1.00	1.00	RC..43	**SR4**	**MS1158**	T15
1808535	**SRACL204D**	1.25	1.25	1.270	6.00	1.00	1.00	RC..43	**SR4**	**MS1158**	T15
1909006	**SRACL244D**	1.50	1.50	1.520	6.00	1.00	1.00	RC..43	**SR4**	**MS1158**	T15

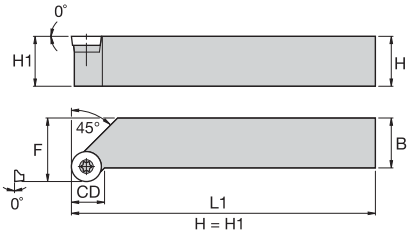




SRCC

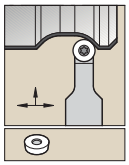
order number	catalog number	CD	H	B	F	L1	LH	gage insert	shim	insert screw	Torx
right hand											
1908976	**SRCCR122B**	.81	.75	.75	1.000	4.50	1.66	RC..215	**–**	**MS1153**	T7
1908978	**SRCCR162D**	.81	1.00	1.00	1.250	6.00	1.66	RC..215	**–**	**MS1153**	T7
1908981	**SRCCR123B**	1.02	.75	.75	1.000	4.50	1.88	RC..325	**SR3**	**MS1156**	T15
1908994	**SRCCR163D**	1.02	1.00	1.00	1.250	6.00	1.88	RC..325	**SR3**	**MS1156**	T15
1908996	**SRCCR203D**	1.02	1.25	1.25	1.500	6.00	1.88	RC..325	**SR3**	**MS1156**	T15
left hand											
1908980	**SRCCL162D**	.81	1.00	1.00	1.250	6.00	1.66	RC..215	**–**	**MS1153**	T7
1908995	**SRCCL163D**	1.02	1.00	1.00	1.250	6.00	1.88	RC..325	**SR3**	**MS1156**	T15
1909002	**SRCCL203D**	1.02	1.25	1.25	1.500	6.00	1.88	RC..325	**SR3**	**MS1156**	T15

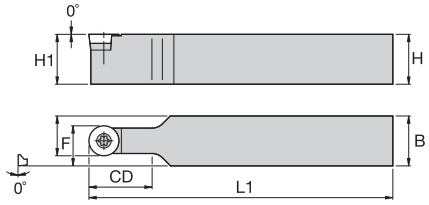




SRGC

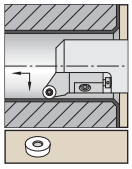
order number	catalog number	H	B	F	L1	CD	gage insert	shim	insert screw	Torx
right hand										
1094548	**SRGCR122**	.75	.75	1.000	4.50	.40	RC..215	**–**	**MS1153**	T7
1094550	**SRGCR162**	1.00	1.00	1.250	6.00	.40	RC..215	**–**	**MS1153**	T7
1094554	**SRGCR163**	1.00	1.00	1.250	6.00	.41	RC..325	**SR3**	**MS1156**	T15
1094556	**SRGCR203**	1.25	1.25	1.500	6.00	.43	RC..325	**SR3**	**MS1156**	T15
left hand										
1094551	**SRGCL162**	1.00	1.00	1.250	6.00	.40	RC..215	**–**	**MS1153**	T7
1094557	**SRGCL203**	1.25	1.25	1.500	6.00	.43	RC..325	**SR3**	**MS1156**	T15

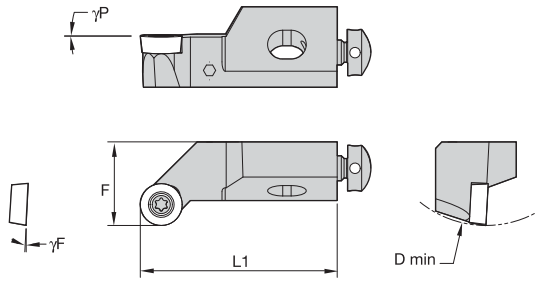




SROC

order number	catalog number	H	B	F	L1	LH	CD	gage insert	shim	insert screw	Torx
1094543	**SROCN102**	.63	.63	.438	4.00	–	.62	RC..215	**–**	**MS1153**	T7
1094544	**SROCN122**	.75	.75	.500	4.50	–	.75	RC..215	**–**	**MS1153**	T7
1094545	**SROCN162**	1.00	1.00	.625	6.00	–	1.00	RC..215	**–**	**MS1153**	T7
1094546	**SROCN123**	.75	.75	.562	4.50	–	.75	RC..325	**SR3**	**MS1156**	T15
1094547	**SROCN163**	1.00	1.00	.688	6.00	–	1.00	RC..325	**SR3**	**MS1156**	T15
1094621	**SROCN203**	1.25	1.25	.813	6.00	1.25	1.25	RC..325	**SR3**	**MS1156**	T15





SRGC

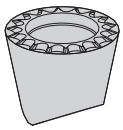
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098711	**SRGCR08CA06**	.984	.394	1.26	-4.0	.0	RC..0602M0/RC..215
1098713	**SRGCR12CA10**	1.969	.787	2.17	-3.0	.0	RC..10T3M0/RC..10T3M0

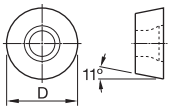
Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
.984	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	–	2.5 mm	**CSWM 040 050**
1.969	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**

ISO/ANSI Carbide Inserts

● first choice
○ alternate choice





RPGT-MP

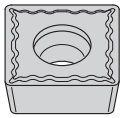
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RPGT060400MP	**RPGT23MP**	6,35	1/4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

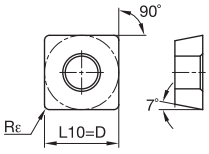
P ● ● ● ● ● ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ● ● ● ● ● ● ● ● ● ● ● ● ●
M ● ● ● ● ● ● ○ ●
K ○ ○ ○ ○ ○ ●
N ●
S ●
H ●

NOTE: For V-Bottom style holders, please see page B386–B387.

● first choice
○ alternate choice

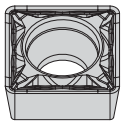
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●				
H																														

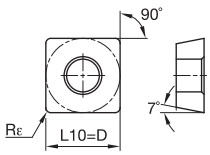




SCMT-11

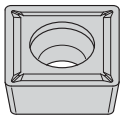
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T30411	SCMT325111	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
SCMT09T30811	SCMT325211	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
SCMT12040411	SCMT43111	12,70	1/2	12,70	.500	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
SCMT12040811	SCMT43211	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

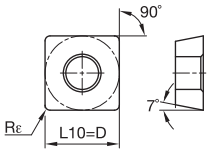




SCMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T304FP	SCMT3251FP	9,53	3/8	9,53	.375	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	–
SCMT09T308FP	SCMT3252FP	9,53	3/8	9,53	.375	0,8	1/32	–	–	●	●	●	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	●
SCMT120404FP	SCMT431FP	12,70	1/2	12,70	.500	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120408FP	SCMT432FP	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120412FP	SCMT433FP	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

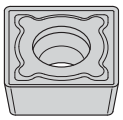


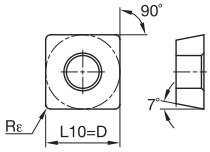


SCMT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T304LF	SCMT3251LF	9,53	3/8	9,53	.375	0,4	1/64	–	●	●	●	●	●	–	–	●	●	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
SCMT09T308LF	SCMT3252LF	9,53	3/8	9,53	.375	0,8	1/32	–	●	●	●	●	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
SCMT120404LF	SCMT431LF	12,70	1/2	12,70	.500	0,4	1/64	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	●	–	–	–	–
SCMT120408LF	SCMT432LF	12,70	1/2	12,70	.500	0,8	1/32	–	●	–	●	●	●	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	●	●	–	–	–
SCMT120412LF	SCMT433LF	12,70	1/2	12,70	.500	1,2	3/64	–	●	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

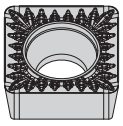
● first choice
○ alternate choice

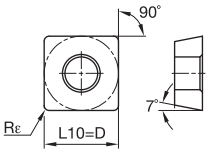




SCMT-MF

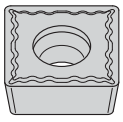
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P								●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M														○							●	●	●	●	●	●	●	●	●		●	●	●	●		●	●
K								○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																										●	●	●		●	●	●	●	●		
S																										●	●	●	●	●	●	●	●			
H																																				
SCMT09T312MF	SCMT3253MF	9,53	3/8	9,52	.375	1,2	3/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMT09T308MF	SCMT3252MF	9,53	3/8	9,53	.375	0,8	1/32	–	●	●	●	●	–	–	–	–	●	●	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
SCMT120408MF	SCMT432MF	12,70	1/2	12,70	.500	0,8	1/32	–	–	●	●	●	●	–	–	–	●	●	●	●	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–
SCMT120412MF	SCMT433MF	12,70	1/2	12,70	.500	1,2	3/64	–	–	●	●	●	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

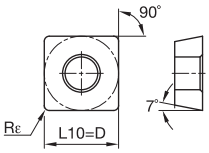




SCMT-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T304MP	SCMT3251MP	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	–	●	–	–	–	–	–	–	–
SCMT09T308MP	SCMT3252MP	9,53	3/8	9,53	.375	0,8	1/32	–	–	●	●	●	–	–	–	–	–	–	●	–	–	●	●	●	–	–	–	–	●	–	–	–	–	–	–	–
SCMT120404MP	SCMT431MP	12,70	1/2	12,70	.500	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	–	–
SCMT120408MP	SCMT432MP	12,70	1/2	12,70	.500	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120412MP	SCMT433MP	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

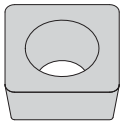


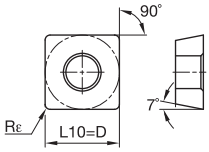


SCMT-UF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T308UF	SCMT3252UF	9,53	3/8	9,53	.375	0,8	1/32	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

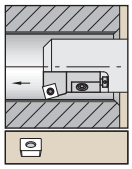
● first choice
○ alternate choice

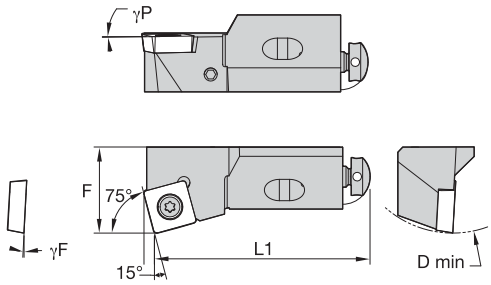




SCMW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P								●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M														○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K								○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																										●	●	●		●	●	●	●	●		
S																										●	●	●	●	●	●	●	●			
H																																				
SCMW09T304	**SCMW3251**	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMW09T308	**SCMW3252**	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMW120408	**SCMW432**	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMW120412	**SCMW433**	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



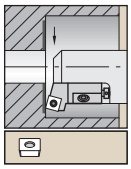


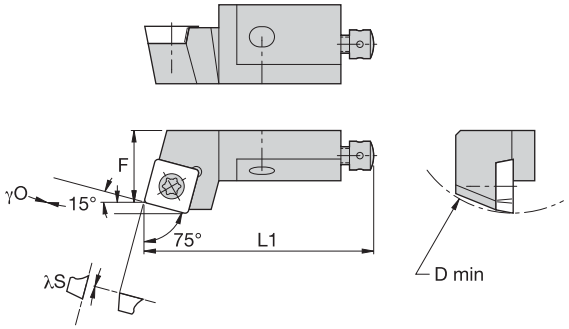
SSKC 15°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098719	**SSKCR12CA12**	1.969	.787	2.17	-3.0	.0	SC..120408/SC..432
1098720	**SSKCR16CA12**	2.362	.984	2.48	-3.0	.0	SC..120408/SC..432
left hand							
1098721	**SSKCL12CA12**	1.969	.787	2.17	-3.0	.0	SC..120408/SC..432

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
2.362	**MS1157**	T15	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**



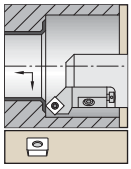


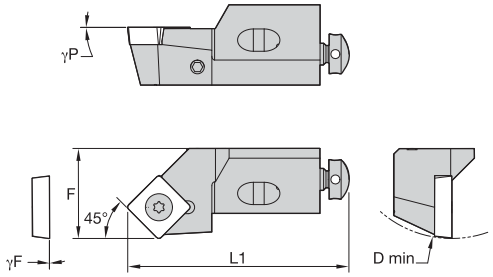
SSRC 15°

order number	catalog number	D min	F	L1	λS°	γO°	gage insert
right hand							
1098723	**SSRCR12CA12**	1.969	.787	2.17	-3.0	.0	SC..120408/SC..432
left hand							
1098725	**SSRCL12CA12**	1.969	.787	2.17	-3.0	.0	SC..120408/SC..432

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**





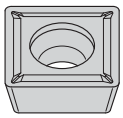
SSSC 45°

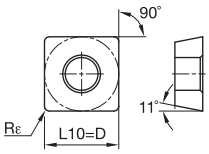
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098737	**SSSCR12CA12**	1.969	.787	1.85	-3.0	.0	SC..120408/SC..432
left hand							
1098739	**SSSCL12CA12**	1.969	.787	1.85	-3.0	.0	SC..120408/SC..432

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**

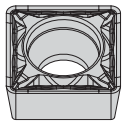
● first choice
○ alternate choice

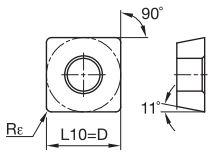




SPGT-LF

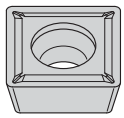
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P								●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M														○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K								○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																										●	●	●		●	●	●	●	●		
S																										●	●	●	●	●	●	●	●			
H																																				
SPGT09T304LF	SPGT3251LF	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
SPGT09T308LF	SPGT3252LF	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–

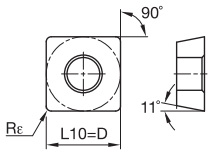




SPMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T304FP	SPMT3251FP	9,53	3/8	9,53	.375	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
SPMT09T308FP	SPMT3252FP	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

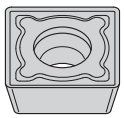


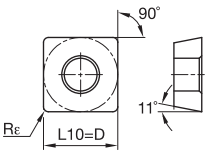


SPMT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T304LF	SPMT3251LF	9,53	3/8	9,53	.375	0,4	1/64	–	–	●	–	●	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
SPMT09T308LF	SPMT3252LF	9,53	3/8	9,53	.375	0,8	1/32	–	●	–	●	●	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–

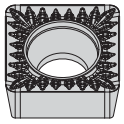
● first choice
○ alternate choice

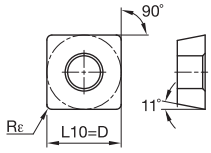




SPMT-MF

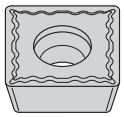
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T308MF	SPMT3252MF	9,53	3/8	9,53	.375	0,8	1/32	–	–	●	●	●	–	–	–	–	●	●	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
SPMT120408MF	SPMT432MF	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	●	●	–	–	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

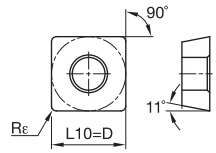




SPMT-MP

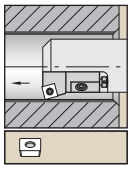
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T308MP	SPMT3252MP	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SPMT120408MP	SPMT432MP	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

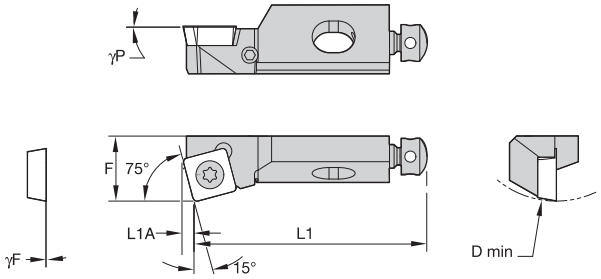




SPMT-UF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T304UF	SPMT3251UF	9,53	3/8	9,53	.375	0,4	1/64	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–



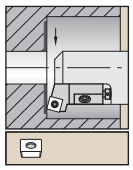


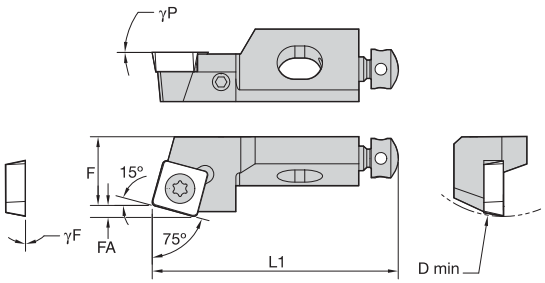
SSKP 15°

order number	catalog number	D min	F	L1	L1A	γF°	γP°	gage insert
right hand								
1098570	**SSKPR10CA09**	1.575	.551	1.97	.09	.0	.0	SP..09T308/SP..3252

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**



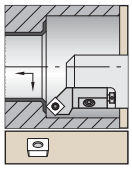


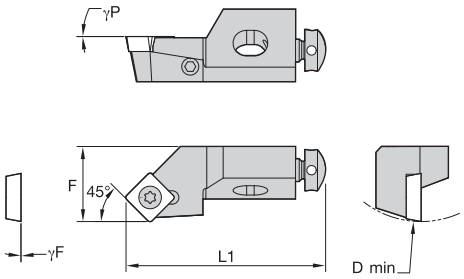
SSRP 15°

order number	catalog number	D min	F	FA	L1	γF°	γP°	gage insert
right hand								
1098574	**SSRPR10CA09**	1.575	.551	.088	1.97	.0	.0	SP..09T308/SP..3252

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





SSSP 45°

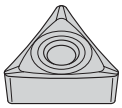
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098572	SSSPR10CA09	1.575	.551	1.73	.0	.0	SP..09T308/SP..3252
left hand							
1098764	SSSPL10CA09	1.575	.551	1.73	.0	.0	SP..09T308/SP..3252

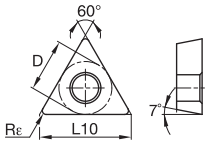
Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	MS1155	T15	KUAM28	2 mm	KUAM30	191.405	4 mm	CSWM 060 050

● first choice
○ alternate choice

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

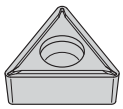


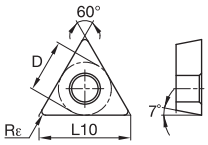


TCGT-HP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TCGT110202HP	TCGT21505HP	6,35	1/4	11,00	.433	0,2	.008
TCGT110204HP	TCGT2151HP	6,35	1/4	11,00	.433	0,4	1/64
TCGT110208HP	TCGT2152HP	6,35	1/4	11,00	.433	0,8	1/32
TCGT16T302HP	TCGT32505HP	9,53	3/8	16,50	.650	0,2	.008
TCGT16T304HP	TCGT3251HP	9,53	3/8	16,50	.650	0,4	1/64
TCGT16T308HP	TCGT3252HP	9,53	3/8	16,50	.650	0,8	1/32

	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCGT110202HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
TCGT110204HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
TCGT110208HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCGT16T302HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
TCGT16T304HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
TCGT16T308HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–

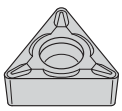


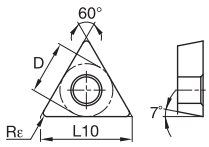


TCGT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TCGT110201LF	TCGT2150LF	6,35	1/4	11,00	.433	0,1	.004
TCGT110204LF	TCGT2151LF	6,35	1/4	11,00	.433	0,4	1/64
TCGT16T301LF	TCGT3250LF	9,53	3/8	16,50	.650	0,1	.004
TCGT16T302LF	TCGT32505LF	9,53	3/8	16,50	.650	0,2	.008
TCGT16T304LF	TCGT3251LF	9,53	3/8	16,50	.650	0,4	1/64
TCGT16T308LF	TCGT3252LF	9,53	3/8	16,50	.650	0,8	1/32

	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCGT110201LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–
TCGT110204LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
TCGT16T301LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TCGT16T302LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCGT16T304LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TCGT16T308LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–





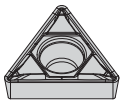
TCMT-11

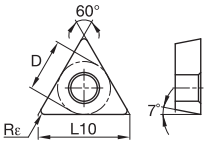
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TCMT11020411	TCMT215111	6,35	1/4	11,00	.433	0,4	1/64
TCMT16T30411	TCMT325111	9,53	3/8	16,50	.650	0,4	1/64
TCMT16T30811	TCMT325211	9,53	3/8	16,50	.650	0,8	1/32

	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT11020411	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
TCMT16T30411	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
TCMT16T30811	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

● first choice
○ alternate choice

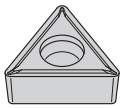
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

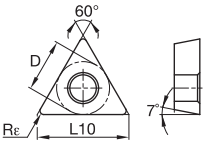




TCMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT090204FP	TCMT18151FP	5,56	7/32	9,63	.379	0,4	1/64	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT090208FP	TCMT18152FP	5,56	7/32	9,63	.379	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT110202FP	TCMT21505FP	6,35	1/4	11,00	.433	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
TCMT110204FP	TCMT2151FP	6,35	1/4	11,00	.433	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
TCMT110304FP	TCMT221FP	6,35	1/4	11,00	.433	0,4	1/64	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT110208FP	TCMT2152FP	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT110308FP	TCMT222FP	6,35	1/4	11,00	.433	0,8	1/32	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT110312FP	TCMT223FP	6,35	1/4	11,00	.433	1,2	3/64	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T304FP	TCMT3251FP	9,53	3/8	16,50	.650	0,4	1/64	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT16T308FP	TCMT3252FP	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
TCMT16T312FP	TCMT3253FP	9,53	3/8	16,50	.650	1,2	3/64	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT220408FP	TCMT432FP	12,70	1/2	22,00	.866	0,8	1/32	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	–



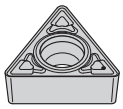


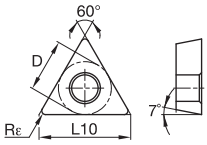
TCMT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110202LF	TCMT21505LF	6,35	1/4	11,00	.433	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
TCMT110204LF	TCMT2151LF	6,35	1/4	11,00	.433	0,4	1/64	–	●	●	●	●	●	–	–	●	●	●	●	●	●	●	–	–	●	–	–	–	–	–	–	●	●	–	●	–
TCMT110208LF	TCMT2152LF	6,35	1/4	11,00	.433	0,8	1/32	–	–	●	●	●	●	–	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	●	●	–	●	–
TCMT16T302LF	TCMT32505LF	9,53	3/8	16,50	.650	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
TCMT16T304LF	TCMT3251LF	9,53	3/8	16,50	.650	0,4	1/64	–	●	●	●	●	–	–	–	●	–	●	●	●	–	●	●	●	●	–	–	–	–	–	–	●	●	–	●	–
TCMT16T308LF	TCMT3252LF	9,53	3/8	16,50	.650	0,8	1/32	–	●	●	●	●	●	–	●	–	●	●	●	●	–	–	●	●	●	–	–	–	–	–	–	●	●	–	●	–
TCMT16T312LF	TCMT3253LF	9,53	3/8	16,50	.650	1,2	3/64	–	●	–	–	●	–	–	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–
TCMT220408LF	TCMT432LF	12,70	1/2	22,00	.866	0,8	1/32	–	●	–	●	●	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

● first choice
○ alternate choice

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

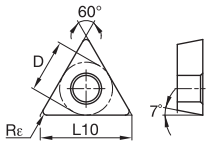




TCMT-MF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TCMT110208MF	TCMT2152MF	6,35	1/4	11,00	.433	0,8	1/32
TCMT16T308MF	TCMT3252MF	9,53	3/8	16,50	.650	0,8	1/32
TCMT16T312MF	TCMT3253MF	9,53	3/8	16,50	.650	1,2	3/64

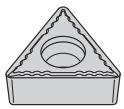
TCMT110208MF	TCMT2152MF	–	–	–	●	●	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
TCMT16T308MF	TCMT3252MF	–	–	●	●	●	●	–	–	–	●	●	●	●	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–
TCMT16T312MF	TCMT3253MF	–	–	●	●	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

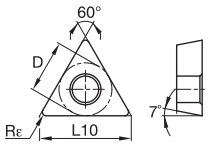


TCMT-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TCMT110208MP	TCMT2152MP	6,35	1/4	11,00	.433	0,8	1/32
TCMT16T304MP	TCMT3251MP	9,53	3/8	16,50	.650	0,4	1/64
TCMT16T308MP	TCMT3252MP	9,53	3/8	16,50	.650	0,8	1/32
TCMT16T312MP	TCMT3253MP	9,53	3/8	16,50	.650	1,2	3/64

TCMT110208MP	TCMT2152MP	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T304MP	TCMT3251MP	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T308MP	TCMT3252MP	–	–	●	–	●	–	–	–	–	–	–	●	–	–	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T312MP	TCMT3253MP	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

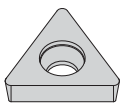


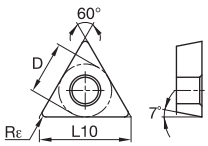


TCMT-UF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TCMT110204UF	TCMT2151UF	6,35	1/4	11,00	.433	0,4	1/64
TCMT110208UF	TCMT2152UF	6,35	1/4	11,00	.433	0,8	1/32
TCMT16T308UF	TCMT3252UF	9,53	3/8	16,50	.650	0,8	1/32

TCMT110204UF	TCMT2151UF	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCMT110208UF	TCMT2152UF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCMT16T308UF	TCMT3252UF	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

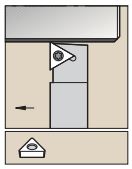


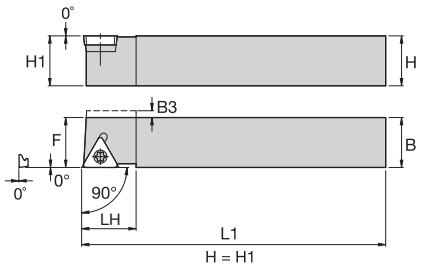


TCMW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TCMW16T304	TCMW3251	9,53	3/8	16,50	.650	0,4	1/64
TCMW16T308	TCMW3252	9,53	3/8	16,50	.650	0,8	1/32

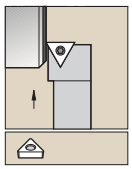
TCMW16T304	TCMW3251	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TCMW16T308	TCMW3252	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

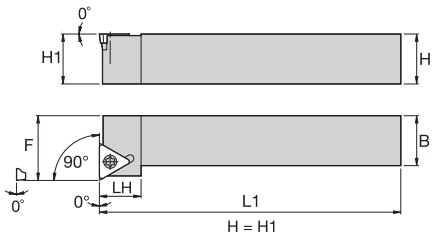


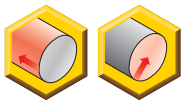


STAC 0°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	hex	insert screw	Torx Plus
right hand													
1772116	**STACR062D**	.38	.38	.375	6.00	.62	.09	TC..2151	–	–	–	**MS1153**	T7
1772118	**STACR082D**	.50	.50	.500	6.00	.62	–	TC..2151	–	–	–	**MS1153**	T7
1772122	**STACR103B**	.63	.63	.625	4.50	.75	–	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15

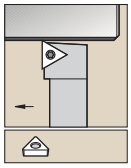


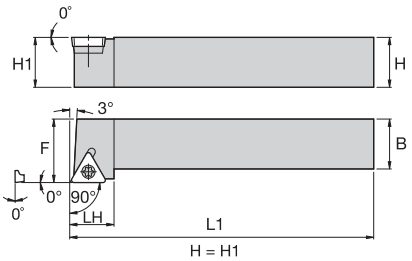




STFC 0°

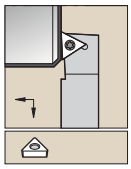
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx Plus
right hand												
1094409	**STFCR062**	.38	.38	.500	2.50	.62	TC..2151	–	–	–	**MS1153**	T7
1094581	**STFCR163**	1.00	1.00	1.250	6.00	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094410	**STFCL062**	.38	.38	.500	2.50	.62	TC..2151	–	–	–	**MS1153**	T7

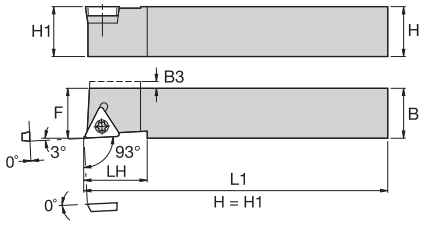


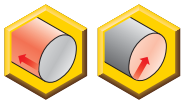


STGC 0°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094421	**STGCR062**	.38	.38	.500	2.50	.62	TC..2151	–	–	–	**MS1153**	T7
1094423	**STGCR082**	.50	.50	.625	3.50	.62	TC..2151	–	–	–	**MS1153**	T7
1094427	**STGCR103**	.63	.63	.750	4.00	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094429	**STGCR123**	.75	.75	1.000	4.50	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094583	**STGCR163**	1.00	1.00	1.250	6.00	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094422	**STGCL062**	.38	.38	.500	2.50	.62	TC..2151	–	–	–	**MS1153**	T7
1094424	**STGCL082**	.50	.50	.625	3.50	.62	TC..2151	–	–	–	**MS1153**	T7
1094428	**STGCL103**	.63	.63	.750	4.00	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094430	**STGCL123**	.75	.75	1.000	4.50	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094584	**STGCL163**	1.00	1.00	1.250	6.00	.75	TC..3252	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15



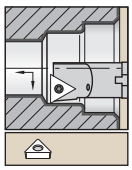




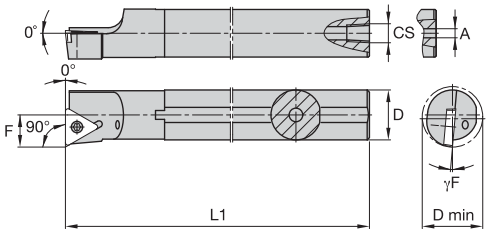
STJC-F -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	insert screw	Torx
right hand										
1772124	STJCRF062D	.38	.38	.375	6.00	.62	.09	TC..2151	MS1153	T7
1772126	STJCRF082D	.50	.50	.500	6.00	.62	–	TC..2151	MS1153	T7
1772128	STJCRF102B	.63	.63	.625	4.50	.62	–	TC..2151	MS1153	T7

Screw-On Boring Bars

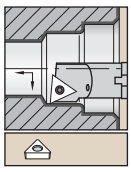


Steel shank with through coolant.

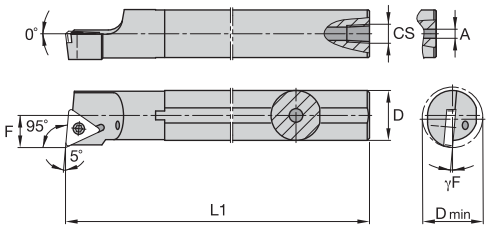


A-STFC 0°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328594	A06MSTFCR2	.375	.480	.250	6.00	.13	–	-8.0	TC..2151	MS1153	T7
1328596	A08RSTFCR2	.500	.600	.312	8.00	–	1/16-27 NPT	-7.0	TC..2151	MS1153	T7
1328599	A10SSTFCR2	.625	.770	.406	10.00	–	1/8-27 NPT	-5.0	TC..2151	MS1153	T7
1328601	A12SSTFCR3	.750	.930	.500	10.00	–	1/8-27 NPT	-5.0	TC..3252	MS1155	T15
1328603	A16STFCR3	1.000	1.200	.640	12.00	–	1/4-18 NPT	-4.0	TC..3252	MS1155	T15
left hand											
1328598	A08RSTFCL2	.500	.600	.312	8.00	.16	1/16-27 NPT	-7.0	TC..2151	MS1153	T7
1328602	A12SSTFCL3	.750	.930	.500	10.00	.16	1/8-27 NPT	-5.0	TC..3252	MS1155	T15
1328604	A16STFCL3	1.000	1.200	.640	12.00	–	1/4-18 NPT	-4.0	TC..3252	MS1155	T15



Steel shank with through coolant.

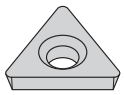


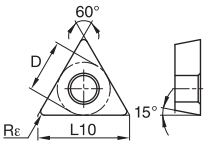
A-STLC -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328605	**A06MSTLCR2**	.375	.480	.250	6.00	.13	—	-8.0	TC..2151	**MS1153**	T7
1328607	**A08RSTLCR2**	.500	.600	.312	8.00	—	1/16-27 NPT	-7.0	TC..2151	**MS1153**	T7
1328610	**A10SSTLCR2**	.625	.770	.406	10.00	—	1/8-27 NPT	-5.0	TC..2151	**MS1153**	T7
1328612	**A12SSTLCR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-5.0	TC..3252	**MS1155**	T15
1328614	**A16STLCR3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	-4.0	TC..3252	**MS1155**	T15
left hand											
1328606	**A06MSTLCL2**	.375	.480	.250	6.00	.13	—	-8.0	TC..2151	**MS1153**	T7
1328608	**A08RSTLCL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-7.0	TC..2151	**MS1153**	T7
1328611	**A10SSTLCL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-5.0	TC..2151	**MS1153**	T7
1328613	**A12SSTLCL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-5.0	TCMT3252	**MS1155**	T15
1328615	**A16STLCL3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	-4.0	TC..3252	**MS1155**	T15

● first choice
○ alternate choice

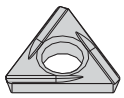
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

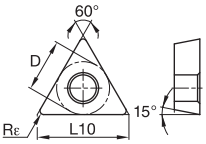




TDHB

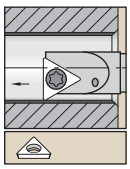
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TDHB07T12S0	TDHB12807501	4,06	.160	7,04	.277	0,1	.002
TDHB07T1202	TDHB12807505	4,06	.160	7,04	.277	0,2	.007
TDHB07T1204	TDHB1280751	4,06	.160	7,04	.277	0,4	.015
TDHB07T1208	TDHB1280752	4,06	.160	7,04	.277	0,8	1/32



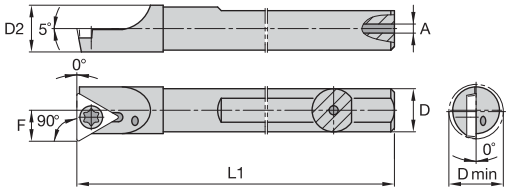


TDHH

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TDHH07T1202L	TDHH12807505L	4,06	.160	7,04	.277	0,2	.007
TDHH07T1202R	TDHH12807505R	4,06	.160	7,04	.277	0,2	.007
TDHH07T1204L	TDHH1280751L	4,06	.160	7,04	.277	0,4	.015
TDHH07T1204R	TDHH1280751R	4,06	.160	7,04	.277	0,4	.015

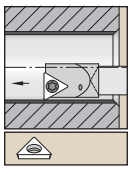


Steel shank with through coolant.

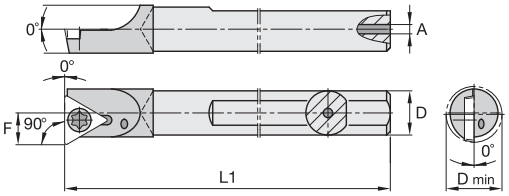


A-STFD 0°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1288873	**A04HSTFDR128**	.250	.296	.260	.156	4.00	.04	TDHB12807505	**FC14**	T7

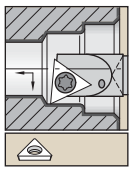


Carbide shank with through coolant.

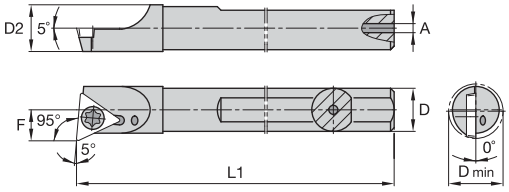


E-STFD 0°

order number	catalog number	D	D min	F	L1	A	gage insert	insert screw	Torx
right hand									
1270956	**E04HSTFDR128**	.250	.296	.156	4.00	.05	TD..130805	**FC14**	T7
1270968	**E05HSTFDR128**	.313	.358	.187	4.00	.09	TD..130805	**FC14**	T7
1270971	**E05MSTFDR128**	.313	.358	.187	6.00	.09	TDHB12807505	**FC14**	T7

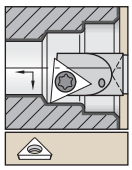


Steel shank with through coolant.

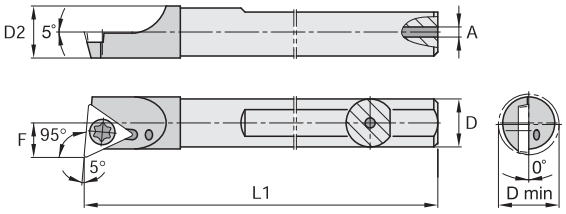


A-STLD -5°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1288867	**A03GSTLDR128**	.188	.275	—	.123	3.50	.04	TDHB12807505	**FC11**	T7
1288875	**A04HSTLDR128**	.250	.296	.260	.156	4.00	.04	TDHB12807505	**FC14**	T7
1288881	**A05HSTLDR128**	.313	.358	.322	.187	4.00	.06	TDHB12807505	**FC14**	T7



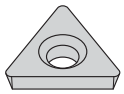
Carbide shank with through coolant.

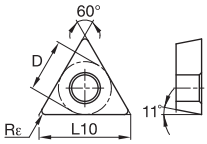


E-STLD -5°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1270944	**E03HSTLDR128**	.187	.275	.236	.126	4.00	.04	TD..12807505	**FC11**	T7
1270950	**E03MSTLDR128**	.187	.275	—	.126	6.00	.04	TD..12807505	**FC11**	T7
1270982	**E06MSTLDR07**	.236	.280	—	.146	6.00	.05	TD..07S102	**FC11**	T7
1270958	**E04HSTLDR128**	.250	.296	.260	.156	4.00	.05	TD..130805	**FC14**	T7
1270965	**E04MSTLDR128**	.250	.296	.000	.156	6.00	.05	TD..12807505	**FC14**	T7
1270970	**E05HSTLDR128**	.312	.358	—	.187	4.00	.09	TD..12807505	**FC14**	T7
1270973	**E05MSTLDR128**	.312	.358	—	.187	6.00	.09	TD..12807505	**FC14**	T7
1270992	**E08MSTLDR07**	.315	.362	—	.189	6.00	.09	TD..07S102	**FC11**	T7
1950413	**E06SSTLDR2**	.375	.438	—	.228	10.00	.13	TP..21505	**QC21**	T9
left hand										
1270981	**E06MSTLDL07**	.236	.278	—	.146	6.00	.05	TD..130805	**FC11**	T7
1270964	**E04MSTLDL128**	.250	.296	—	.156	6.00	.05	TD..12807505	**FC14**	T7
1270991	**E08MSTLDL07**	.315	.360	—	.189	6.00	.09	TD..07S102	**FC14**	T7

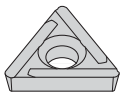
● first choice
○ alternate choice

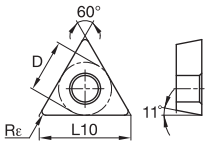




TPCB

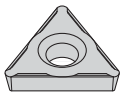
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPCB110202	TPCB2205	6,35	1/4	—	—	0,2	.007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCB160302	TD6P05	9,53	3/8	16,50	.650	0,2	.007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCB160304	TD6P1	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TD6P	TD6P	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
TPCB160308	TD6P2	9,53	3/8	16,50	.650	0,8	.031	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

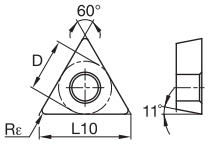




TPCG

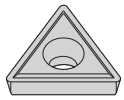
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPCG110202L	TPCG2205L	6,35	1/4	11,00	.433	0,2	.007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCG110204L	TPCG221L	6,35	1/4	11,00	.433	0,4	.15	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCG110208L	TPCG222L	6,35	1/4	11,00	.433	0,8	.31	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

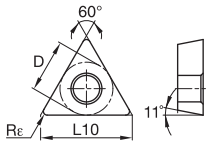




TPCH

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPCH110202	TPCH2205	6,50	.256	11,26	.443	0,2	.007	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCH110204	TPCH221	6,50	.256	11,26	.443	0,4	.015	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–



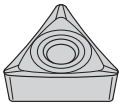


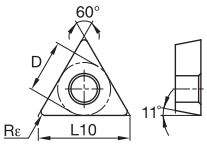
TPGH

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPGH160304	TPGH321	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPGH160308	TPGH322	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

● first choice
○ alternate choice

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

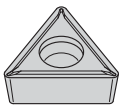


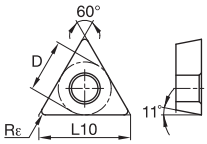


TPGT-HP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TPGT110202HP	TPGT21505HP	6,35	1/4	11,00	.433	0,2	.008
TPGT110204HP	TPGT2151HP	6,35	1/4	11,00	.433	0,4	1/64
TPGT110208HP	TPGT2152HP	6,35	1/4	11,00	.433	0,8	1/32
TPGT16T302HP	TPGT32505HP	9,53	3/8	16,50	.650	0,2	.008
TPGT16T304HP	TPGT3251HP	9,53	3/8	16,50	.650	0,4	1/64
TPGT16T308HP	TPGT3252HP	9,53	3/8	16,50	.650	0,8	1/32

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPGT110202HP	TPGT21505HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
TPGT110204HP	TPGT2151HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
TPGT110208HP	TPGT2152HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–
TPGT16T302HP	TPGT32505HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TPGT16T304HP	TPGT3251HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
TPGT16T308HP	TPGT3252HP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–

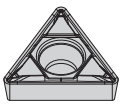


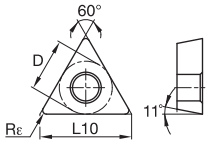


TPGT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TPGT090204LF	TPGT18151LF	5,56	7/32	9,62	.379	0,4	1/64
TPGT090202LF	TPGT181505LF	5,56	7/32	9,63	.379	0,2	.008
TPGT110201LF	TPGT2150LF	6,35	1/4	11,00	.433	0,1	.004
TPGT110202LF	TPGT21505LF	6,35	1/4	11,00	.433	0,2	.008
TPGT110204LF	TPGT2151LF	6,35	1/4	11,00	.433	0,4	1/64
TPGT110208LF	TPGT2152LF	6,35	1/4	11,00	.433	0,8	1/32
TPGT16T304LF	TPGT3251LF	9,53	3/8	16,50	.650	0,4	1/64
TPGT16T308LF	TPGT3252LF	9,53	3/8	16,50	.650	0,8	1/32

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPGT090204LF	TPGT18151LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
TPGT090202LF	TPGT181505LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TPGT110201LF	TPGT2150LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPGT110202LF	TPGT21505LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
TPGT110204LF	TPGT2151LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
TPGT110208LF	TPGT2152LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TPGT16T304LF	TPGT3251LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
TPGT16T308LF	TPGT3252LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–



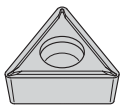


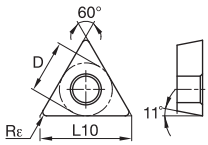
TPMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
TPMT090204FP	TPMT18151FP	5,56	7/32	9,63	.379	0,4	1/64
TPMT090208FP	TPMT18152FP	5,56	7/32	9,63	.379	0,8	1/32
TPMT110202FP	TPMT21505FP	6,35	1/4	11,00	.433	0,2	.008
TPMT110204FP	TPMT2151FP	6,35	1/4	11,00	.433	0,4	1/64
TPMT110304FP	TPMT221FP	6,35	1/4	11,00	.433	0,4	1/64
TPMT110208FP	TPMT2152FP	6,35	1/4	11,00	.433	0,8	1/32
TPMT110308FP	TPMT222FP	6,35	1/4	11,00	.433	0,8	1/32
TPMT16T304FP	TPMT3251FP	9,53	3/8	16,50	.650	0,4	1/64
TPMT16T308FP	TPMT3252FP	9,53	3/8	16,50	.650	0,8	1/32

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT090204FP	TPMT18151FP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT090208FP	TPMT18152FP	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPMT110202FP	TPMT21505FP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT110204FP	TPMT2151FP	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPMT110304FP	TPMT221FP	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPMT110208FP	TPMT2152FP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT110308FP	TPMT222FP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT16T304FP	TPMT3251FP	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	–
TPMT16T308FP	TPMT3252FP	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

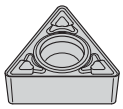
● first choice
○ alternate choice

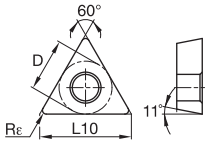




TPMT-LF

ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
TPMT090202LF	TPMT181505LF	5,56	7/32	9,63	.379	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
TPMT090204LF	TPMT18151LF	5,56	7/32	9,63	.379	0,4	1/64	–	●	–	●	●	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
TPMT110202LF	TPMT21505LF	6,35	1/4	11,00	.433	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPMT110204LF	TPMT2151LF	6,35	1/4	11,00	.433	0,4	1/64	–	●	●	●	●	–	–	–	–	●	–	–	●	–	–	●	●	–	–	–	●	–	–	–	●	●	–	●	–
TPMT110208LF	TPMT2152LF	6,35	1/4	11,00	.433	0,8	1/32	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	●	–	●	–
TPMT16T304LF	TPMT3251LF	9,53	3/8	16,50	.650	0,4	1/64	–	●	●	●	●	–	–	●	–	●	–	–	–	●	●	–	–	–	–	–	–	–	–	–	●	●	–	●	–
TPMT16T308LF	TPMT3252LF	9,53	3/8	16,50	.650	0,8	1/32	–	●	–	●	●	–	–	–	●	●	●	●	●	–	–	–	–	●	–	–	–	–	–	–	●	●	–	●	–
TPMT220408LF	TPMT432LF	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

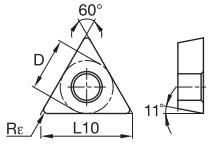




TPMT-MF

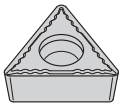
ISO catalog number	ANSI catalog number	D		L10		Rε		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
		mm	in	mm	in	mm	in																													
TPMT110208MF	TPMT2152MF	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	●	●	–	–	–	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T308MF	TPMT3252MF	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	–	●	●	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T312MF	TPMT3253MF	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	●	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

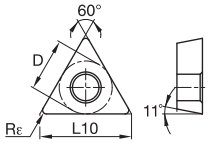
● first choice
○ alternate choice



TPMT-MP

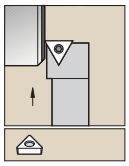
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT110208MP	TPMT2152MP	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T308MP	TPMT3252MP	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T312MP	TPMT3253MP	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

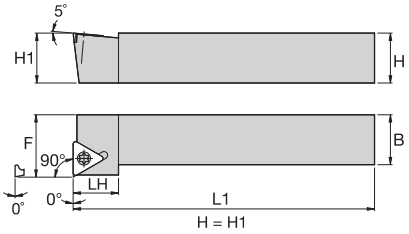


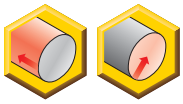


TPMT-UF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT110202UF	TPMT21505UF	6,35	1/4	11,00	.433	0,2	.008	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT110204UF	TPMT2151UF	6,35	1/4	11,00	.433	0,4	1/64	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPMT16T308UF	TPMT3252UF	9,53	3/8	16,50	.650	0,8	1/32	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



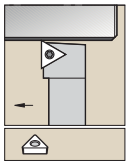


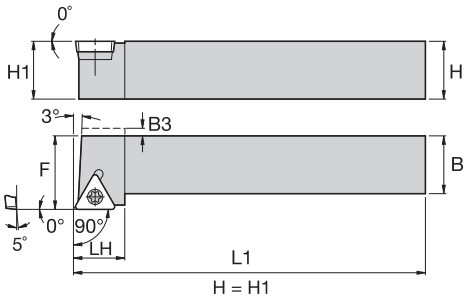


STFP 0°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1095590	**STFPR062**	.38	.38	.500	2.50	.44	TP..2151	**MS1153**	T7

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept TPMT/TPGM/TPGT/TPGW-21.5_inserts.

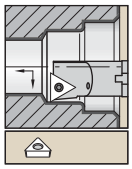




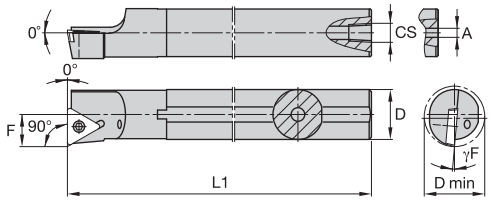
STGP 0°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1095588	**STGPR062**	.38	.38	.500	2.50	.56	TP..2151	**MS1153**	T7
1095589	**STGPR082V**	.50	.50	.625	3.50	.56	TP..2151	**MS1153**	T7
left hand									
1095681	**STGPL062**	.38	.38	.500	2.50	.56	TP..2151	**MS1153**	T7
1095682	**STGPL082V**	.50	.50	.625	3.50	.56	TP..2151	**MS1153**	T7

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept TPMT/TPGM/TPGT/TPGW-21.5_inserts.



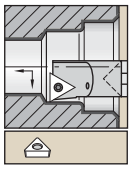
Steel shank with through coolant.



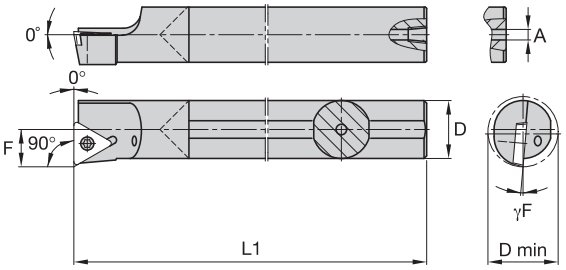
A-STFP 0°

order number	catalog number	D	D min	F	L1	L2	A	CS	γF°	gage insert	insert screw	Torx
right hand												
1094755	**A05KSTFPR18**	.313	.415	.219	5.00	.73	.09	—	-8.0	TP..18151	**MS1933**	T7
1094653	**A06MSTFPR2**	.375	.480	.250	6.00	—	.13	—	-4.0	TPMT2151	**MS1153**	T7
1094655	**A08RSTFPR2**	.500	.600	.312	8.00	—	.16	1/16-27 NPT	-2.0	TP..2151	**MS1153**	T7
1094657	**A10SSTFPR2**	.625	.770	.406	10.00	—	.16	1/8-27 NPT	.0	TPMT2151	**MS1153**	T7
1094659	**A12SSTFPR3**	.750	.930	.500	10.00	1.35	.16	1/8-27 NPT	-2.0	TP..3252	**MS1155**	T15
1094661	**A16STFPR3**	1.000	1.200	.640	12.00	—	—	1/4-18 NPT	.0	TP..3252	**MS1155**	T15
left hand												
1094654	**A06MSTFPL2**	.375	.480	.250	6.00	—	.13	—	-4.0	TPMT2151	**MS1153**	T7
1094656	**A08RSTFPL2**	.500	.600	.312	8.00	—	.16	1/16-27 NPT	-2.0	TP..2151	**MS1153**	T7
1094660	**A12SSTFPL3**	.750	.930	.500	10.00	1.35	.16	1/8-27 NPT	-2.0	TP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert. This tool will also accept TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., TPMT/TPGT/TPGW-32.5_). 90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.



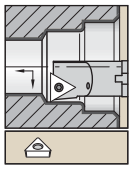
Carbide shank with through coolant.



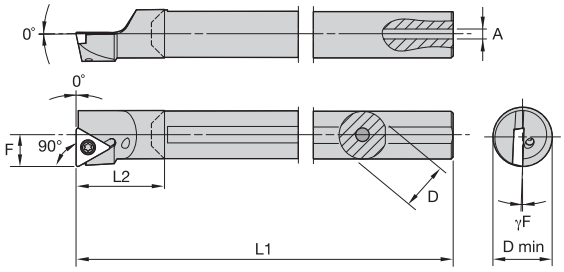
E-STFP 0°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
1152707	**E05STFPR18**	.313	.415	.219	5.00	.09	-5.0	TP..18151	**MS1933**	T7
1152709	**E06STFPR2**	.375	.480	.250	6.00	.13	-4.0	TP..2151	**MS1153**	T7
1152711	**E08STFPR2**	.500	.600	.312	8.00	.19	-2.0	TP..2151	**MS1153**	T7
1152713	**E10STFPR2**	.625	.770	.406	10.00	.22	.0	TP..2151	**MS1153**	T7
1102784	**E12STFPR3**	.750	.930	.500	10.00	.28	-2.0	TP..3252	**MS1155**	T15
1152716	**E16STFPR3**	1.000	1.200	.640	12.00	.31	.0	TP..3252	**MS1155**	T15
left hand										
1152708	**E05STFPL18**	.313	.415	.219	5.00	.09	-5.0	TP..18151	**MS1933**	T7
1152710	**E06STFPL2**	.375	.480	.250	6.00	.13	-4.0	TP..2151	**MS1153**	T7
1152712	**E08STFPL2**	.500	.600	.312	8.00	.19	-2.0	TP..2151	**MS1153**	T7
1152714	**E10STFPL2**	.625	.770	.406	10.00	.22	.0	TP..2151	**MS1153**	T7
1152715	**E12STFPL3**	.750	.930	.500	10.00	.28	-2.0	TP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., TPMT/TPGT/TPGW-32.5_). 90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.



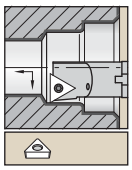
Heavy metal bar with through coolant.



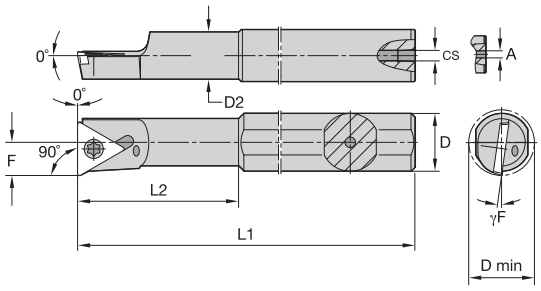
L-STFP 0°

order number	catalog number	D	D min	F	L1	L2	A	γF°	gage insert	insert screw	Torx
right hand											
3331081	**L06MSTFPR2**	.375	.480	.250	6.06	.91	.13	-4.0	TP..2151	**MS1153**	T7
3331079	**L08RSTFPR2**	.500	.600	.312	7.93	.93	.16	-2.0	TP..2151	**MS1153**	T7
3331080	**L10RSTFPR2**	.625	.770	.406	8.08	1.12	.16	.0	TP..2151	**MS1153**	T7
3331082	**L12RSTFPR3**	.750	.930	.500	8.05	1.39	.16	-2.0	TP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., TPMT/TPGT/TPGW-32.5_). 90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.



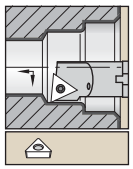
Steel shank with through coolant.



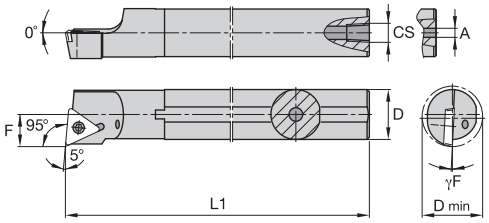
A-STFP 0° Necked

order number	catalog number	D	D min	F	L1	L2	A	γF°	gage insert	insert screw	Torx
right hand											
1094651	**A0506STFPR18**	.375	.415	.219	5.00	1.63	.09	-8.0	TP..18151	**MS1152**	T7

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept TPGM/TPGT/TPGW-21.5_inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., TPMT/TPGT/TPGW-32.5_). 90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.



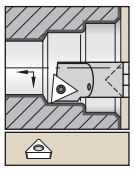
Steel shank with through coolant.



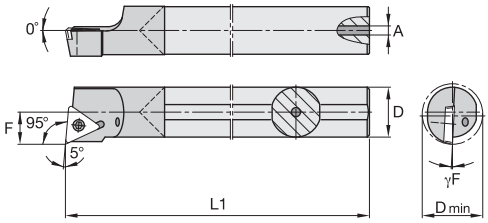
A-STLP -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1094745	**A06MSTLPR2**	.375	.480	.250	6.00	.13	—	-4.0	TPMT2151	**MS1153**	T7
1094747	**A08RSTLPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-2.0	TPMT2151	**MS1153**	T7
1094749	**A10SSTLPR2**	.625	.770	.406	10.00	.16	1/8-27 NPT	.0	TPMT2151	**MS1153**	T7
1094751	**A12SSTLPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	TP..3252	**MS1155**	T15
1094753	**A16STLPR3**	1.000	1.220	.640	12.00	.25	1/4-18 NPT	.0	TP..3252	**MS1155**	T15
left hand											
1094746	**A06MSTLPL2**	.375	.480	.250	6.00	.13	—	-4.0	TPMT2151	**MS1153**	T7
1094748	**A08RSTLPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-2.0	TPMT2151	**MS1153**	T7
1094750	**A10SSTLPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	.0	TPMT2151	**MS1153**	T7
1094752	**A12SSTLPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	TP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., TPMT/TPGT/TPGW-32.5_). 90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.



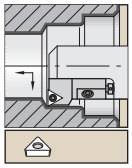
Carbide shank with through coolant.

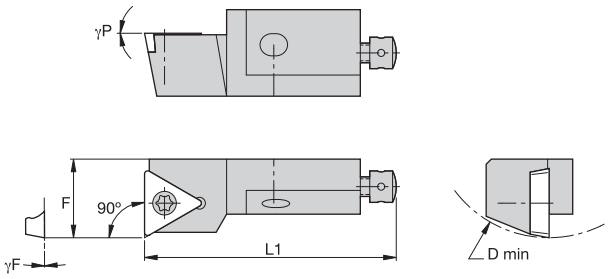


E-STLP -5°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
1152767	**E06STLPR2**	.375	.480	.250	6.00	.13	-4.0	TP..2151	**MS1153**	T7
1152769	**E08STLPR2**	.500	.600	.312	8.00	.19	-2.0	TP..2151	**MS1153**	T7
1152771	**E10STLPR2**	.625	.770	.406	10.00	.22	.0	TP..2151	**MS1153**	T7
1152704	**E12STLPR3**	.750	.930	.500	10.00	.28	-2.0	TP..3252	**MS1155**	T15
1152706	**E16STLPR3**	1.000	1.220	.640	12.00	.31	.0	TP..3252	**MS1155**	T15
left hand										
1152768	**E06STLPL2**	.375	.480	.250	6.00	.13	-4.0	TP..2151	**MS1153**	T7
1152770	**E08STLPL2**	.500	.600	.312	8.00	.19	-2.0	TP..2151	**MS1153**	T7
1152772	**E10STLPL2**	.625	.770	.406	10.00	.22	.0	TP..2151	**MS1153**	T7
1152705	**E12STLPL3**	.750	.930	.500	10.00	.28	-2.0	TP..3252	**MS1155**	T15
1152766	**E16STLPL3**	1.000	1.220	.640	12.00	.31	.0	TP..3252	**MS1155**	T15

NOTE: ANSI/ISO compatible 60° countersunk hole insert.This tool will also accept TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole insert (i.e., TPMT/TPGT/TPGW-32.5_). 90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.





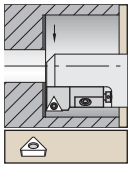
STFP

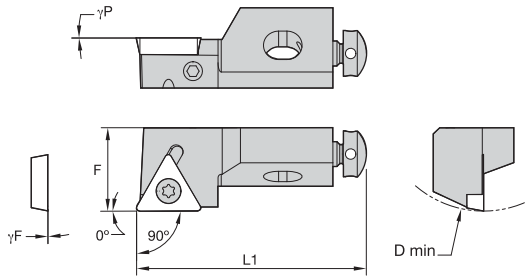
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098565	**STFPR08CA09**	.984	.394	1.26	.0	.0	TP..090204/TP..18151
1098563	**STFPR10CA11**	1.575	.551	1.97	.0	.0	TP..110204/TP..2151
1098562	**STFPR12CA16**	1.969	.787	2.17	.0	.0	TP..16T308/TP..3252
left hand							
1098561	**STFPL08CA09**	.984	.394	1.26	.0	.0	TP..090204/TP..18151
1098559	**STFPL10CA11**	1.575	.551	1.97	.0	.0	TP..110204/TP..2151
1098558	**STFPL12CA16**	1.969	.787	2.17	.0	.0	TP..16T308/TP..3252

NOTE: ANSI/ISO compatible 60° countersunk hole inserts. This tool also accepts TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole inserts (i.e., TPMT/TPGT/TPGW-32.5_).90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
.984	**MS1152**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	**–**	2.5 mm	**CSWM 040 050**
1.575	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
1.969	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**





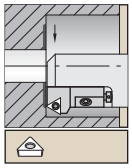
STGP

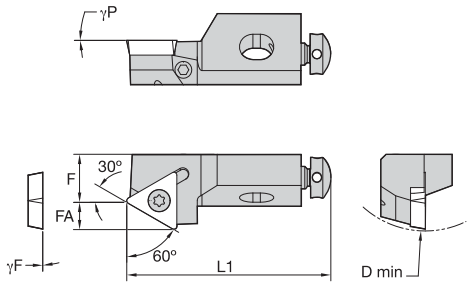
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098567	**STGPR10CA11**	1.575	.551	1.97	.0	.0	TP..110204/TP..2151
1098566	**STGPR12CA16**	1.969	.787	2.17	.0	.0	TP..16T308/TP..3252
left hand							
1098762	**STGPL08CA09**	.984	.394	1.26	.0	.0	TP..090204/TP..18151
1098760	**STGPL10CA11**	1.575	.551	1.97	.0	.0	TP..110204/TP..2151

NOTE: ANSI/ISO compatible 60° countersunk hole inserts. This tool also accepts TPGM/TPGT/TPGW-21.5_ inserts.
ANSI/ISO compatible 60° countersunk hole inserts (i.e., TPMT/TPGT/TPGW-32.5_).90° countersunk hole inserts (i.e., TPGM/TPGB-32.5_) do not fit this tool.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
.984	**MS1152**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	**–**	2.5 mm	**CSWM 040 050**
1.575	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
1.969	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**





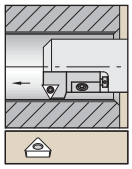
STTP 30°

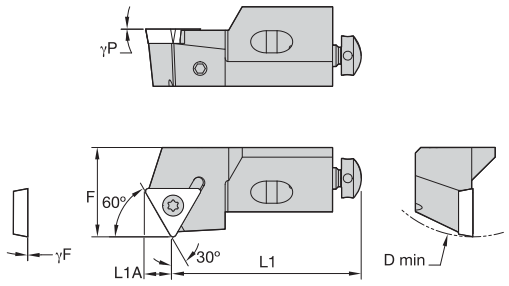
order number	catalog number	D min	F	FA	L1	γF°	γP°	gage insert
right hand								
1098744	**STTPR08CA09**	.984	.236	.167	1.26	.0	.0	TP..090204/TP..18151
1098742	**STTPR10CA11**	1.575	.354	.195	1.97	.0	.0	TP..110204/TP..2151
1098741	**STTPR12CA16**	1.969	.512	.282	2.17	.0	.0	TP..16T308/TP..3252

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts TPGM/TPGT/TPGW-21.5_ inserts.

Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
.984	**MS1152**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	–	2.5 mm	**CSWM 040 050**
1.575	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	–	4 mm	**CSWM 060 050**
1.969	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**





STWP 30°

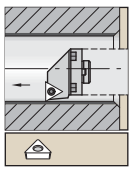
order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
1098750	**STWPR10CA11**	1.575	.551	1.73	.0	.0	TP..110204/TP..2151
1098749	**STWPR12CA16**	1.969	.787	1.85	.0	.0	TP..16T308/TP..3252

NOTE: ANSI/ISO compatible 60° countersunk hole inserts.
This tool also accepts TPGM/TPGT/TPGW-21.5_ inserts.

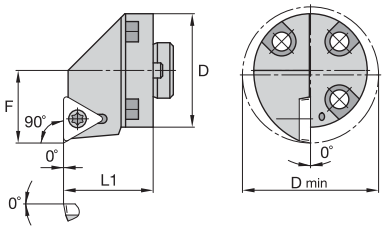
Spare Parts

D min	insert screw	Torx	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	–	4 mm	**CSWM 060 050**
1.969	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**

Screw-On Boring Heads



With through coolant.

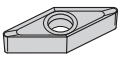


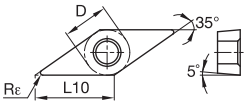
H-STFP 0°

order number	catalog number	D	D min	F	L1	gage insert	insert screw	Torx
right hand								
1581444	**H16STFPR2**	1.000	1.200	.640	.79	TP..2151	**MS1153**	T7

● first choice
○ alternate choice

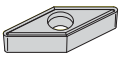
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●				
H																														

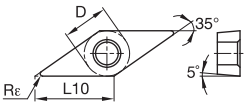




VBGT-HP

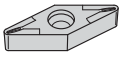
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
VBGT110302HP	VBGT2205HP	6,35	1/4	11,07	.436	0,2	.008
VBGT110304HP	VBGT221HP	6,35	1/4	11,07	.436	0,4	1/64
VBGT160404HP	VBGT331HP	9,53	3/8	16,61	.654	0,4	1/64
VBGT160408HP	VBGT332HP	9,53	3/8	16,61	.654	0,8	1/32

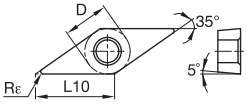




VBGT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
VBGT1103X0LF	VBGT22X0LF	6,35	1/4	11,07	.436	0,0	.0015
VBGT110301LF	VBGT220LF	6,35	1/4	11,07	.436	0,1	.004
VBGT110302LF	VBGT2205LF	6,35	1/4	11,07	.436	0,2	.008
VBGT110304LF	VBGT221LF	6,35	1/4	11,07	.436	0,4	1/64
VBGT1604X0LF	VBGT33X0LF	9,53	3/8	16,61	.654	0,0	.0015
VBGT160401LF	VBGT330LF	9,53	3/8	16,61	.654	0,1	.004
VBGT160402LF	VBGT3305LF	9,53	3/8	16,61	.654	0,2	.008
VBGT160404LF	VBGT331LF	9,53	3/8	16,61	.654	0,4	1/64



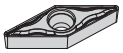


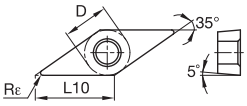
VBMT-11

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
VBMT11030211	VBMT220511	6,35	1/4	11,07	.436	0,2	.008
VBMT11030411	VBMT22111	6,35	1/4	11,07	.436	0,4	1/64
VBMT16040411	VBMT33111	9,53	3/8	16,61	.654	0,4	1/64
VBMT16040811	VBMT33211	9,53	3/8	16,61	.654	0,8	1/32

● first choice
○ alternate choice

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

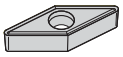


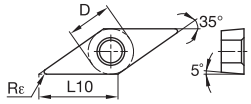


VBMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
VBMT110302FP	VBMT2205FP	6,35	1/4	11,07	.436	0,2	.008
VBMT110304FP	VBMT221FP	6,35	1/4	11,07	.436	0,4	1/64
VBMT110308FP	VBMT222FP	6,35	1/4	11,07	.436	0,8	1/32
VBMT160402FP	VBMT3305FP	9,53	3/8	16,61	.654	0,2	.008
VBMT160404FP	VBMT331FP	9,53	3/8	16,61	.654	0,4	1/64
VBMT160408FP	VBMT332FP	9,53	3/8	16,61	.654	0,8	1/32
VBMT160412FP	VBMT333FP	9,53	3/8	16,61	.654	1,2	3/64

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT110302FP	VBMT2205FP	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VBMT110304FP	VBMT221FP	–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT110308FP	VBMT222FP	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	–
VBMT160402FP	VBMT3305FP	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT160404FP	VBMT331FP	●	●	●	●	●	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT160408FP	VBMT332FP	●	●	●	●	●	–	–	–	–	–	–	●	●	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT160412FP	VBMT333FP	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

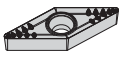


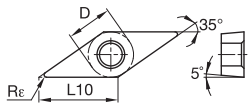


VBMT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
VBMT110302LF	VBMT2205LF	6,35	1/4	11,07	.436	0,2	.008
VBMT110304LF	VBMT221LF	6,35	1/4	11,07	.436	0,4	1/64
VBMT110308LF	VBMT222LF	6,35	1/4	11,07	.436	0,8	1/32
VBMT160402LF	VBMT3305LF	9,53	3/8	16,61	.654	0,2	.008
VBMT160404LF	VBMT331LF	9,53	3/8	16,61	.654	0,4	1/64
VBMT160408LF	VBMT332LF	9,53	3/8	16,61	.654	0,8	1/32
VBMT160412LF	VBMT333LF	9,53	3/8	16,61	.654	1,2	3/64

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT110302LF	VBMT2205LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
VBMT110304LF	VBMT221LF	●	●	●	●	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	●	–	–	–	–	●	●	–	●	–
VBMT110308LF	VBMT222LF	●	–	●	●	●	–	–	–	●	–	–	●	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–
VBMT160402LF	VBMT3305LF	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	●	–
VBMT160404LF	VBMT331LF	–	●	●	●	●	●	–	–	–	●	●	●	–	●	●	●	●	●	–	●	–	–	–	–	●	●	–	●	–
VBMT160408LF	VBMT332LF	●	●	●	●	●	●	–	–	●	●	●	–	●	●	●	●	●	–	–	●	–	–	–	–	●	●	–	●	–
VBMT160412LF	VBMT333LF	–	–	–	–	●	–	–	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

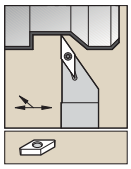


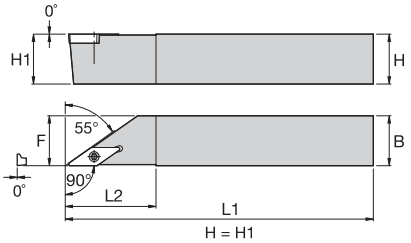


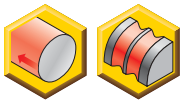
VBMT-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in
VBMT160404MP	VBMT331MP	9,53	3/8	16,61	.654	0,4	1/64
VBMT160408MP	VBMT332MP	9,53	3/8	16,61	.654	0,8	1/32

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT160404MP	VBMT331MP	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
VBMT160408MP	VBMT332MP	–	–	–	●	●	–	–	–	–	–	–	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–

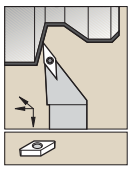


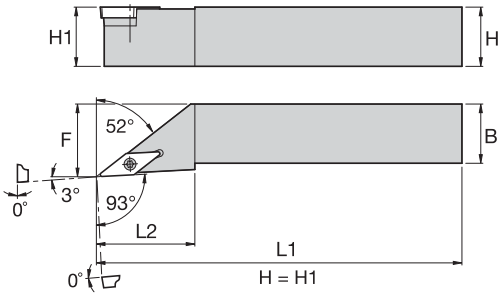


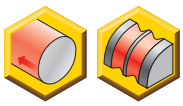


SVAB -0°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx Plus
right hand									
1094607	**SVABR062D**	.38	.38	.375	6.00	.88	VB..221	**MS1153**	T7
1094609	**SVABR082D**	.50	.50	.500	6.00	.88	VB..221	**MS1153**	T7
1094611	**SVABR103B**	.63	.63	.625	4.50	1.38	VB..332	**MS1155**	T15
left hand									
1094608	**SVABL062D**	.38	.38	.375	6.00	.88	VB..221	**MS1153**	T7
1094610	**SVABL082D**	.50	.50	.500	6.00	.88	VB..221	**MS1153**	T7
1094612	**SVABL103B**	.63	.63	.625	4.50	1.38	VB..332	**MS1155**	T15

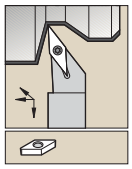


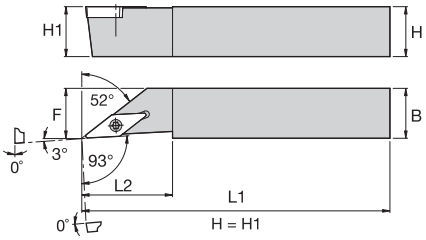


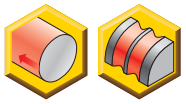


SVJB -3°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094533	**SVJBR062**	.38	.38	.500	2.50	.88	VB..221	–	–	–	**MS1153**	T7
1094535	**SVJBR082**	.50	.50	.625	3.50	.88	VB..221	–	–	–	**MS1153**	T7
1094537	**SVJBR102**	.63	.63	.750	4.00	.88	VB..221	–	–	–	**MS1153**	T7
1094539	**SVJBR123**	.75	.75	1.000	4.50	1.38	VB..332	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1094541	**SVJBR163**	1.00	1.00	1.250	6.00	1.38	VB..332	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094534	**SVJBL062**	.38	.38	.500	2.50	.88	VB..221	–	–	–	**MS1153**	T7
1094536	**SVJBL082**	.50	.50	.625	3.50	.88	VB..221	–	–	–	**MS1153**	T7
1094538	**SVJBL102**	.63	.63	.750	4.00	.88	VB..221	–	–	–	**MS1153**	T7
1094540	**SVJBL123**	.75	.75	1.000	4.50	1.38	VB..332	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1094542	**SVJBL163**	1.00	1.00	1.250	6.00	1.38	VB..332	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15

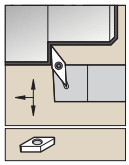


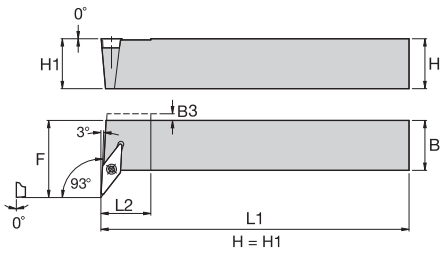


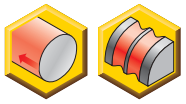


SVJB-F -3°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx Plus
right hand									
1094615	**SVJBRF062D**	.38	.38	.375	6.00	.93	VB..221	**MS1153**	T7
1094617	**SVJBRF082D**	.50	.50	.500	6.00	.93	VB..221	**MS1153**	T7
1094613	**SVJBRF103B**	.63	.63	.625	4.50	1.43	VB..332	**MS1155**	T15
left hand									
1094616	**SVJBLF062D**	.38	.38	.375	6.00	.93	VB..221	**MS1153**	T7
1094618	**SVJBLF082D**	.50	.50	.500	6.00	.93	VB..221	**MS1153**	T7
1094614	**SVJBLF103B**	.63	.63	.625	4.50	1.43	VB..332	**MS1155**	T15

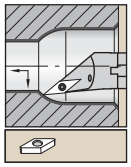




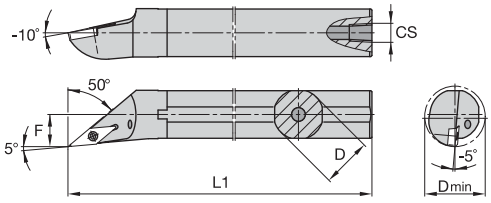


SVUB -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	insert screw	Torx
right hand										
1095632	**SVUBR082**	.50	.50	.830	3.50	.50	.12	VB..221	**MS1153**	T7
1095633	**SVUBR102**	.63	.63	.955	4.00	.50	—	VB..221	**MS1153**	T7
left hand										
1095634	**SVUBL082**	.50	.50	.830	3.50	.50	.12	VB..221	**MS1153**	T7
1095635	**SVUBL102**	.63	.63	.955	4.00	.50	—	VB..221	**MS1153**	T7

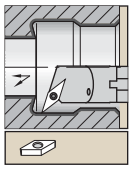


Steel shank with through coolant.

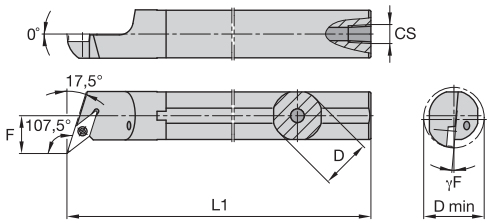


A-SVMB -5°

order number	catalog number	D	D min	F	L1	CS	gage insert	insert screw	Torx
right hand									
1236002	**A08RSVMBR2E**	.500	.980	.312	8.00	1/16-27 NPT	VB..221	**MS1153**	T7
1236006	**A10SSVMBR2E**	.625	.980	.406	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1236007	**A12SSVMBR3E**	.750	1.286	.500	10.00	1/8-27 NPT	VB..332	**MS1155**	T15
1236018	**A16TSVMBR3E**	1.000	1.286	.640	12.00	1/4-18 NPT	VB..332	**MS1155**	T15

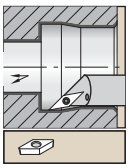


Steel shank with through coolant.

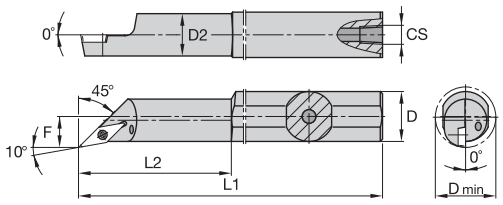


A-SVQB -17.5°

order number	catalog number	D	D min	F	L1	CS	gage insert	insert screw	Torx
right hand									
1094719	**A10SSVQBR2**	.625	.850	.500	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1094721	**A12SSVQBR2**	.750	.980	.562	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1094723	**A16TSVQBR3**	1.000	1.300	.750	12.00	1/4-18 NPT	VB..332	**MS1155**	T15
left hand									
1094720	**A10SSVQBL2**	.625	.850	.500	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1094722	**A12SSVQBL2**	.750	.980	.562	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1094724	**A16TSVQBL3**	1.000	1.300	.750	12.00	1/4-18 NPT	VB..332	**MS1155**	T15

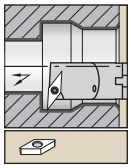


Necked steel shank with through coolant.

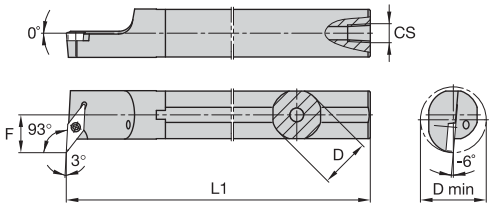


A-SVSP -10°

order number	catalog number	D	D min	F	L1	L4	CS	gage insert	insert screw	Torx
1106715	**A2732SVSPRW4**	2.000	2.200	1.080	14.00	5.31	1/4-18 NPT	VP..443K	**S411**	5/32



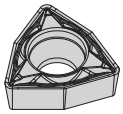
Steel shank with through coolant.

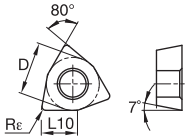


A-SVUB -3°

order number	catalog number	D	D min	F	L1	CS	gage insert	insert screw	Torx
right hand									
1094699	**A12SSVUBR2**	.750	.980	.562	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1094701	**A16TSVUBR3**	1.000	1.300	.750	12.00	1/4-18 NPT	VBMT332	**MS1155**	T15
left hand									
1094700	**A12SSVUBL2**	.750	.980	.562	10.00	1/8-27 NPT	VB..221	**MS1153**	T7
1094702	**A16TSVUBL3**	1.000	1.300	.750	12.00	1/4-18 NPT	VBMT332	**MS1155**	T15

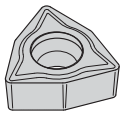
● first choice
○ alternate choice

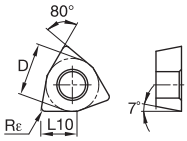




WCMT-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WCMT040204FP	WCMT2151FP	6,35	1/4	4,34	.171	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
WCMT06T308FP	WCMT3252FP	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

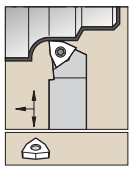


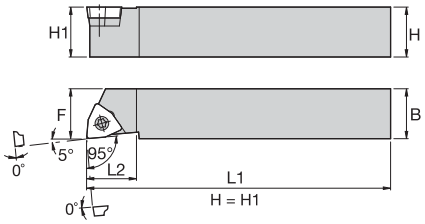


WCMT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WCMT040204LF	WCMT2151LF	6,35	1/4	4,34	.171	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
WCMT06T308LF	WCMT3252LF	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

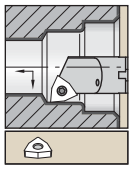




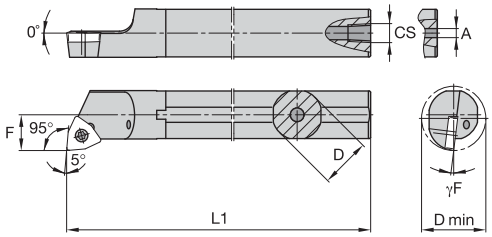
SWLC-F -5°

order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1772144	**SWLCRF082D**	.50	.50	.500	6.00	.50	WC..2151	**MS1153**	T7

Screw-On Boring Bars



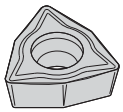
Steel shank with through coolant.

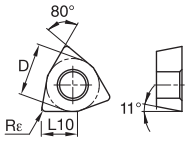


A-SWLC -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328642	**A06MSWLCR2**	.375	.480	.250	6.00	.13	—	-8.0	WC..2151	**MS1939**	T7
1328644	**A08RSWLCR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-6.0	WC..2151	**MS1153**	T7
1328646	**A10SSWLCR3**	.625	.770	.406	10.00	.16	1/8-27 NPT	-7.0	WC..3252	**MS1155**	T15

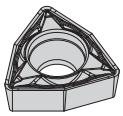
● first choice
○ alternate choice

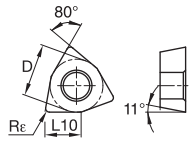




WPGT-UF

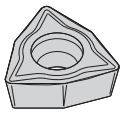
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WPGTS30101UF	WPGT1510UF	4,76	3/16	3,26	.128	0,1	.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
WPGTS30102UF	WPGT15105UF	4,76	3/16	3,26	.128	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
WPGT040202UF	WPGT21505UF	6,35	1/4	4,34	.171	0,2	.008	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

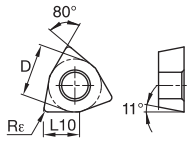




WPMT-FP

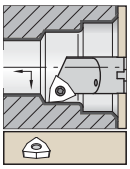
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WPMTS3T104FP	WPMT15121FP	4,76	3/16	3,25	.128	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
WPMT040204FP	WPMT2151FP	6,35	1/4	4,34	.171	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
WPMT06T304FP	WPMT3251FP	9,53	3/8	6,52	.257	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
WPMT06T308FP	WPMT3252FP	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–



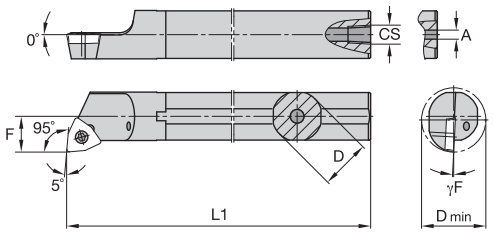


WPMT-LF

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WPMTS3T104LF	WPMT15121LF	4,76	3/16	3,25	.128	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
WPMT040204LF	WPMT2151LF	6,35	1/4	4,34	.171	0,4	1/64	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
WPMT06T304LF	WPMT3251LF	9,53	3/8	6,52	.257	0,4	1/64	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
WPMT06T308LF	WPMT3252LF	9,53	3/8	6,52	.257	0,8	1/32	–	–	–	●	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–

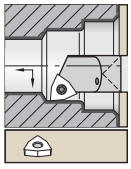


Steel shank with through coolant.

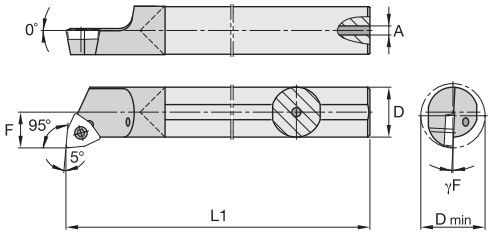


A-SWLP -5°

order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1094709	**A06MSWLPR2**	.375	.490	.250	6.00	.13	—	-7.0	WP..2151	**MS1939**	T7
1094711	**A08RSWLPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-2.0	WPMT2151	**MS1153**	T7
1094713	**A10SSWLPR3**	.625	.770	.406	10.00	.16	1/8-27 NPT	-3.0	WP..3252	**MS1155**	T15
1094715	**A12SSWLPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	-2.0	WP..3252	**MS1155**	T15
1094717	**A16SWLPR3**	1.000	1.200	.640	12.00	.25	1/4-18 NPT	.0	WP..3252	**MS1155**	T15
left hand											
1094712	**A08RSWLPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-2.0	WP..2151	**MS1153**	T7
1094714	**A10SSWLPL3**	.625	.770	.406	10.00	.16	1/8-27 NPT	-3.0	WP..3252	**MS1155**	T15
1094716	**A12SSWLPL3**	.750	.930	.500	10.00	—	1/8-27 NPT	-2.0	WP..3252	**MS1155**	T15

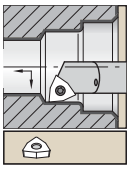


Carbide shank with through coolant.

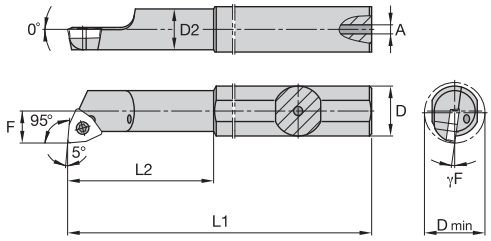


E-SWLP -5°

order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
1152750	**E03HSWLPR15**	.188	.260	.260	4.00	.04	-10.0	WP..15121	**MS1438**	T5
1152752	**E04HSWLPR15**	.250	.321	.156	4.00	.05	-8.0	WP..15121	**MS1438**	T5
1152754	**E05SWLPR15**	.313	.415	.219	5.00	.09	-4.0	WP..15121	**MS1438**	T5
1152756	**E06SWLPR2**	.375	.480	.250	6.00	.13	-4.0	WP..2151	**MS1153**	T7
1152758	**E08SWLPR2**	.500	.600	.312	8.00	.19	-2.0	WP..2151	**MS1153**	T7
1152760	**E10SWLPR3**	.625	.770	.406	10.00	.22	-3.0	WP..3252	**MS1155**	T15
1152762	**E12SWLPR3**	.750	.930	.500	10.00	.28	-2.0	WP..3252	**MS1155**	T15
1152764	**E16SWLPR3**	1.000	1.200	.640	12.00	.31	.0	WP..3252	**MS1155**	T15
left hand										
1152753	**E04HSWLPL15**	.250	.321	.156	4.00	.05	-8.0	WP..15121	**MS1438**	T5
1152755	**E05SWLPL15**	.313	.415	.219	5.00	.09	-4.0	WP..15121	**MS1438**	T5
1152757	**E06SWLPL2**	.375	.480	.250	6.00	.13	-4.0	WP..2151	**MS1153**	T7
1152759	**E08SWLPL2**	.500	.600	.312	8.00	.19	-2.0	WP..2151	**MS1153**	T7
1152761	**E10SWLPL3**	.625	.770	.406	10.00	.22	-3.0	WP..3252	**MS1155**	T15

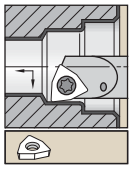


Necked steel shank with through coolant.

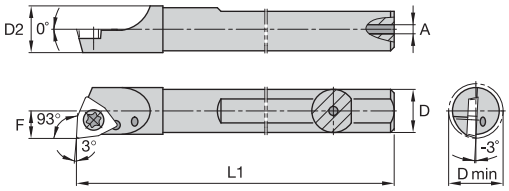


A-SWLP -5° • Stepped

order number	catalog number	D	D min	D2	F	L1	L2	A	γF°	gage insert	insert screw	Torx
right hand												
1094703	**A0306SWLPR15**	.375	.260	.250	.126	3.50	1.00	.08	-10.0	WP..15121	**MS1438**	T5
1094705	**A0406SWLPR15**	.375	.321	—	.156	4.00	1.25	.08	-8.0	WP..15121	**MS1438**	T5
1094707	**A0506KSWLPR15**	.375	.415	—	.214	5.00	1.61	.09	-4.0	WP..15121	**MS1438**	T5
left hand												
1094704	**A0306SWLPL15**	.375	.260	.250	.126	3.50	1.00	.08	-10.0	WP..15121	**MS1438**	T5

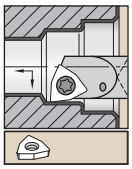


Steel shank with through coolant.

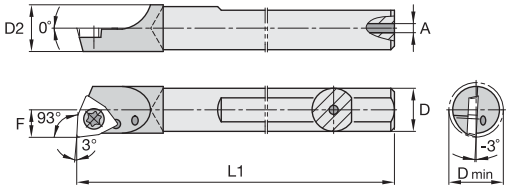


A-SWUP -3°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1950374	**A04HSWUPR15**	.250	.285	.260	.112	4.00	.04	WP..1511	**CT11**	T6
1950376	**A05HSWUPR15**	.313	.347	.322	.174	4.00	.04	WP..1511	**CT15**	T6



Carbide shank with through coolant.



E-SWUP -3°

order number	catalog number	D	D min	D2	F	L1	A	gage insert	insert screw	Torx
right hand										
1950378	**E03MSWUPR15**	.188	.260	.236	.126	6.00	.04	WP..1511	**CT11**	T6
1950380	**E04MSWUPR15**	.250	.285	—	.143	6.00	.05	WP..1511	**CT11**	T6
1950382	**E05MSWUPR15**	.312	.347	—	.174	6.00	.09	WP..1511	**CT15**	T6
1950388	**E06MSWUPR2**	.375	.413	—	.211	6.00	.13	WPMT21505	**MS1153**	T7
1950390	**E08RSWUPR2**	.500	.538	—	.273	8.00	.19	WP..2151	**QTM20**	T7

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Beyond™ advanced PVD coatings are well suited to resist high temperatures associated with machining tough alloys. These coatings offer increased tool life and a boost in productivity to the general engineering, transportation, aerospace, energy, and earthworks markets. Use the strength of Beyond PVD coatings and the broad product offering to perform turning, grooving, and cut-off operations in a wide array of materials and applications. Beyond PVD coatings help to maintain consistent chip control and minimize insert edge wear.

beyond™

KCU10™ Grade

- PVD-coated grade with excellent wear resistance. Finishing to medium applications.
- Use in all materials, especially stainless steels and high-temp alloys.

KCU25™ Grade

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Ceramic, PcBN, and PCD Inserts

Turning inserts made from advanced materials, such as ceramics, PcBN (polycrystalline cubic boron nitride), and PCD (polycrystalline diamond), can be applied in hard-part turning and machining of cast irons, hardened materials, high-temp alloys, and non-ferrous materials.

Ceramic, PcBN, and PCD inserts offer:
- Improved performance.
- Greater wear resistance.

Ceramic Inserts

- Silicon-nitride based ceramic for cast iron machining.
- Mixed ceramic for hard machining and finishing of cast iron.
- Whisker ceramic for high-temp alloys and hard machining.

KYK25

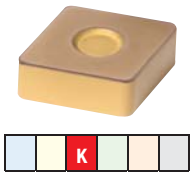
KYS30™

PcBN

Solid Inserts

- Inserts are made only from PcBN.
- No material joint.
- Best heat-absorption capacity.
- Can work at highest temperatures.

KBK45



Tipped Inserts

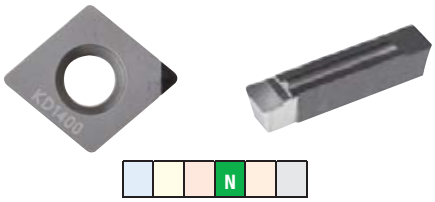
- Require a carrier and a PcBN tip.
- The tips are brazed to a carrier.
- The substrate has to have a pocket that will accommodate and support the tip.

KBH20™

PCD

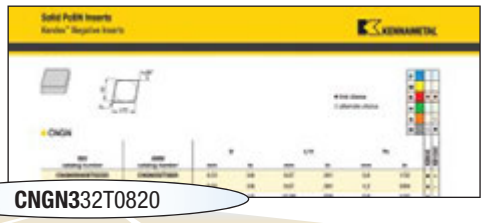
- Targeted machining of non-ferrous materials.
- Significant advantage in hardness over carbide tools.
- Increased productivity through higher speeds and longer tool life.
- Best used in processing materials that are un-machinable with conventional tooling.

KD1400



How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



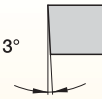
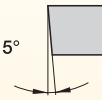
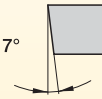
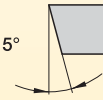
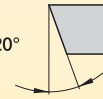
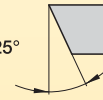
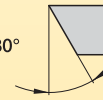
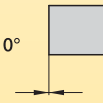
CNGN32T0820

C	N	G	N	3
Insert Shape	Insert Clearance Angle	Tolerance Class	Insert Features	Size

Insert Shape

H	Hexagon 120°	
O	Octagon 135°	
P	Pentagon 108°	
R	Round —	
S	Square 90°	
T	Triangular 60°	
C D E M V	Rhomboid 80° 55° 75° 86° 35°	
W	Trigon 80° with enlarged corner angles	
L	Rectangular 90°	
A B N/K	Parallelogram 85° 82° 55°	

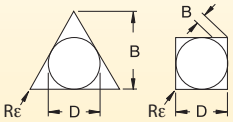
Insert Clearance Angle

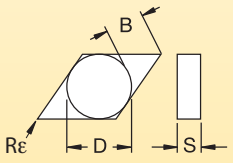
A	3°	
B	5°	
C	7°	
D	15°	
E	20°	
F	25°	
G	30°	
N	0°	
P	11°	

O For other clearance angles requiring descriptions.

Tolerance Class

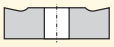
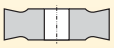
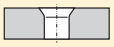
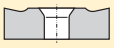
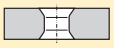
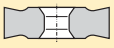
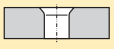
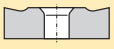
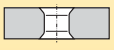
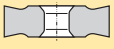
Tolerances apply prior to edge prep and coating





D = Theoretical diameter of the insert inscribed circle
S = Thickness
B = See figures below

Insert Features

N	
R	
F	
A	
M	
G	
W	
T	
Q	
U	
B	
H	
C	
J	
X V	Special Design

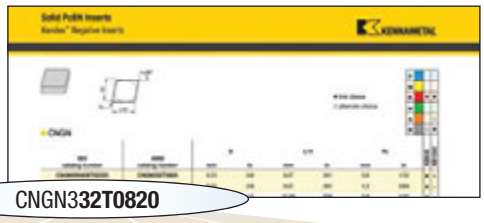
Size

"D" inch	"D" inch	Code for inch cutting edge length "L10" C	D	R	S	T	V	W
1.2 (5)	5/32	S4	04	03	03	06	—	—
1.5 (6)	3/16	04	05	04	04	08	08	S3
1.8 (7)	7/32	05	06	05	05	09	09	03
—	.236	—	—	06	—	—	—	—
2	1/4	06	07	06	06	11	11	04
2.5	5/16	08	09	07	07	13	13	05
—	.315	—	—	08	—	—	—	—
3	3/8	09	11	09	09	16	16	06
—	.394	—	—	10	—	—	—	—
3.5	7/16	11	13	11	11	19	19	07
—	.472	—	—	12	—	—	—	—
4	1/2	12	15	12	12	22	22	08
4.5	9/16	14	17	14	14	24	24	09
5	5/8	16	19	15	15	27	27	10
—	.630	—	—	16	—	—	—	—
5.5	11/16	17	21	17	17	30	30	11
6	3/4	19	23	19	19	33	33	13
—	.787	—	—	20	—	—	—	—
7	7/8	22	27	22	22	38	38	15
—	.984	—	—	25	—	—	—	—
8	1	25	31	25	25	44	44	17
10	1-1/4	32	38	31	31	54	54	21
—	1.260	—	—	32	—	—	—	—

tolerance class*	tolerance on "D"	tolerance on "B"	tolerance on "S"
C	±.0010"	±.0005"	±.001"
H	±.0005"	±.0005"	±.001"
E	±.0010"	±.0010"	±.001"
G	±.0010"	±.0010"	±.005"
M	See tables on next page		±.005"
U	See tables on next page		±.005"

*Tolerances apply prior to edge prep and coating.

By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



CNGN3**32T0820**

3	2		T	08	20		
Thickness "S"	Corner Radius "Rε"	Hand of Insert *(optional)*	Cutting Edge *(optional)*	T-Land Width *(optional)*	T-Land Angle *(optional)*	Tip Style *(optional)*	Chipbreaker *(optional)*

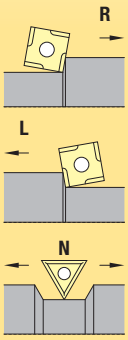
symbol inch	thickness inch
.5 (1)	1/32
.6	.040
1 (2)	1/16
1.2	5.64
1.5 (3)	3/32
2	1/8
2.5	5/32
3	3/16
3.5	7/32
4	1/4
5	5/16
6	3/8
7	7/16
8	1/2

symbol inch	corner radius inch
X0	.0015
0	.004
.5	.008
1	1/64
2	1/32
3	3/64
4	1/16
5	5/64
6	3/32
7	7/64
8	1/8
—	round insert
—	

R = Right hand

L = Left hand

N = Neutral



F* Sharp

E Rounded

T* Chamfered

S* Chamfered and Rounded

K Double-Chamfered

P Double-Chamfered and Rounded

*Also available in wiper style.

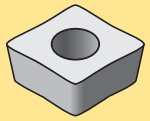
symbol ANSI	inch size
04	.004
08	.008

symbol	size
10	10°
15	15°
20	20°
25	25°
30	30°

FW = Finishing Wiper

MW = Medium Wiper

symbol	usage
C	full top
M	mini tip
MT	multi-tip
ST	single tip



"D" inch	± Tolerance on "D" Class M Tolerance Shapes S, T, C, R, & W inch	Class M Tolerance Shape D inch	Class M Tolerance Shape V inch	Class U Tolerance Shapes S, T, & C inch
5/32	.002	–	–	–
3/16	.002	–	–	.003
7/32	.002	.002	.002	.003
1/4	.002	.002	.002	.003
5/16	.002	.002	.002	.003
3/8	.002	.002	.002	.003
7/16	.003	.003	.003	.005
1/2	.003	.003	.003	.005
9/16	.003	.003	.003	.005
5/8	.004	.004	.004	.007
11/16	.004	.004	.004	.007
3/4	.004	.004	.004	.007
7/8	.005	–	–	.010
1	.005	–	–	.010
1 1/4	.006	–	–	.010

"D" inch	± Tolerance on "B" Class M Tolerance Shapes S, T, C, R, & W inch	Class M Tolerance Shape D inch	Class M Tolerance Shape V inch	Class U Tolerance Shapes S, T, & C inch
5/32	.003	–	–	–
3/16	.003	–	–	.005
7/32	.003	.004	–	.005
1/4	.003	.004	–	.005
5/16	.003	.004	–	.005
3/8	.003	.004	.007	.005
7/16	.005	.006	–	–
1/2	.005	.006	.010	.008
9/16	.005	.006	–	–
5/8	.006	.007	–	.011
11/16	.006	.007	–	.011
3/4	.006	.007	–	.011
7/8	.006	–	–	.015
1	.007	–	–	.015
1 1/4	.008	–	–	.015

Advanced Materials for Cast Iron Machining

Primary Application

The Kennametal advanced materials, utilizing Beyond™ technology, offer greater wear resistance and toughness, depending on the job.

KYK ceramic inserts are the first choice for high-speed, continuous, and lightly interrupted turning applications in cast iron materials. Benefits include improved fracture toughness, better wear resistance, and an extended application range. Combining grades KYK10™ and CVD-coated KYK25™ with our other ceramic grades for cast iron, Kennametal provides a complete high-performance ceramic portfolio that can reduce machining cycle times and lower manufacturing costs.

The Kennametal SiAlON grades, such as KYK10, can be applied at high cutting speeds up to the PcBN range and at varying cast iron material machinability. Combining SiAlON material science, CVD coating technology, and PcBN grades for cast iron machining, Kennametal provides a complete high-performance portfolio that can reduce cycle time and lower machining costs.

Features and Benefits

Solid PcBN Inserts

KBK45™ Grade

- Designed for elevated abrasion-resistance.
- Go-to grade for cost-per-part manufacturing.
- For roughing and finishing.
- Gold color for improved usage monitoring.

KB1340™ Grade

- Designed for elevated abrasion-resistance.
- High-temperature resistance.
- For roughing and finishing.

Tipped PcBN Inserts

KB5630™ Grade

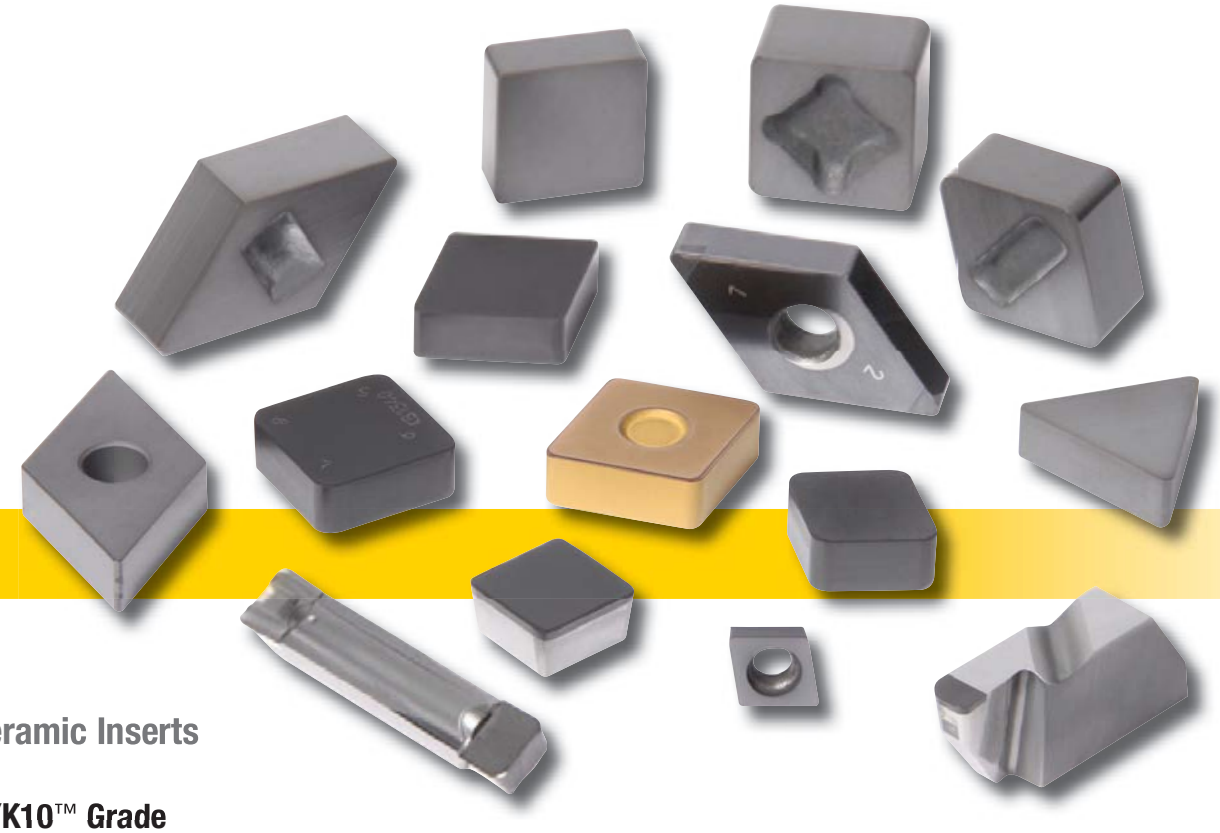
- Laminated material for fine finishing.
- Excellent edge stability.
- PVD coating for reliable tool life, even at varying material machinability.

KB1345™ Grade

- Abrasion-resistant high CBN content tipped grade.
- Very fine PcBN structure suitable for fine finishing applications.

KBK45™ grade provides the best cost-per-part in cast irons.

KB5630™ grade has greater abrasion resistance for chilled and hardened irons.



Ceramic Inserts

KYK10™ Grade

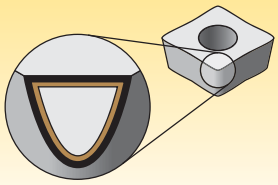
- Improved wear resistance and toughness with up to 20% longer tool life than current KY1310™ grade.
- Best suited for continuous turning of cast iron materials and in lightly interrupted cuts.

KYK25™ Grade

- 12-micron thick coating provides excellent wear resistance, and pre-coat treatment allows for very consistent tool life and performance in cast iron applications.
- Up to 30% longer tool life vs. competitors' CVD-coated ceramic grades.

KY3500™ Grade

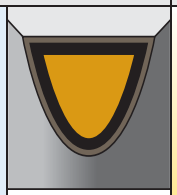
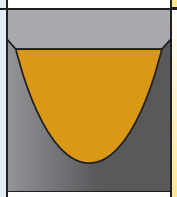
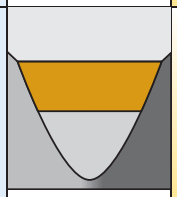
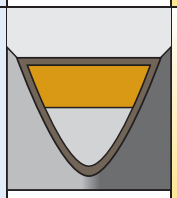
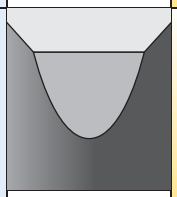
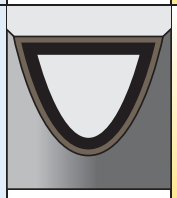
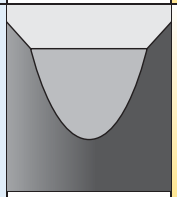
- Excellent for roughing to finishing operations in wet or dry cuts with speeds up to 320 SFM (1000 m/min).
- Performs well in difficult interrupted cuts in ductile or malleable cast iron (<70 KSI tensile strength) at speeds of 85–160 SFM (250–450 m/min).



Coatings provide high-speed capability and are engineered for finishing to light roughing.

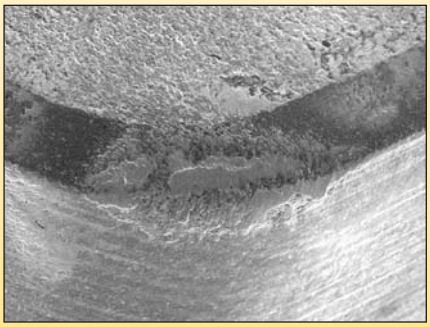
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ◄——► toughness

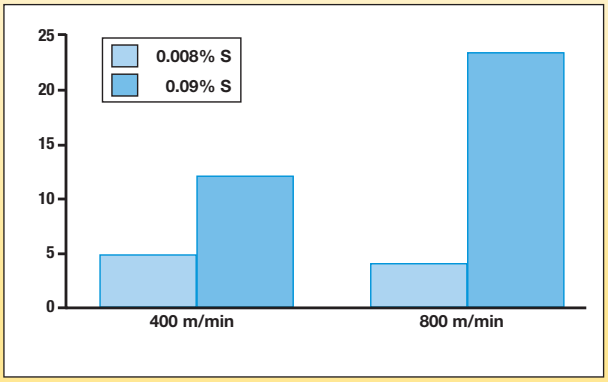
		Coating	Grade Description		05	10	15	20	25	30	35	40	45
Solid PcBN Grades	KBK45		**Composition:** A PVD TiN coated high CBN content, solid PcBN insert having multiple cutting edges. **Application:** Applied in roughing to finishing of gray and hard cast irons. Also used for finishing chilled cast iron and fully pearlitic cast iron. The solid PcBN insert offers better security and shock resistance compared to tipped PcBN inserts, while also enabling deeper depth-of-cut capabilities. beyond	K			■	■	■	■	■	■	
	KB1340		**Composition:** A high CBN content, solid PcBN insert having multiple cutting edges. **Application:** Applied in roughing to finishing of fully pearlitic gray cast iron, chilled irons, high-chrome alloyed steels, and heavy cuts in hardened steels (>45 HRC). The solid PcBN insert offers better security and shock resistance compared to tipped PcBN inserts, while also enabling deeper depth-of-cut capabilities.	K		■	■	■	■	■			
Tipped PcBN Grades	KB1345		**Composition:** A high CBN content, PcBN tip brazed onto a carbide insert. **Application:** Applied in roughing to finishing of fully pearlitic gray cast iron, chilled irons, high-chrome alloyed steels, sintered powdered metals, and heavy cuts in hardened steels (>45 HRC). Also used for finishing chilled cast iron and fully pearlitic cast iron. The tipped PcBN insert is available in a wide range of insert styles including positive rake geometries that are ideally suited for boring applications.	K				■	■	■	■	■	■
				H								■	
	KB5630		**Composition:** A high content PcBN with a PVD AlTiN coating for added wear resistance. **Application:** Designed for roughing to finishing of hardened steels (>45 HRC), abrasive workpiece materials such as sintered valve seat materials, powder metallurgy steels, and hard high-alloy cast irons. The PVD coating provides resistance to crater wear and increased resistance to chipping. A wide range of styles are available, including Screw-On geometries that are ideal for boring applications.	K	■	■	■						
				S		■	■						
				H					■	■	■		
Ceramic Grades	KYK10		**Composition:** An advanced SiAlON ceramic grade. **Application:** Provides maximum wear resistance. Used for high-speed continuous turning of gray cast iron, including through scale. To be used for varying cast iron machinability. beyond	K	■	■	■						
	KYK25		**Composition:** Pure silicon nitride ceramic with an alumina CVD coating. **Application:** Excellent combination of toughness and edge wear resistance. Used for general purpose machining of gray, ductile, or nodular cast irons. To be used for varying cast iron machinability. beyond	K		■	■	■					
	KY3500		**Composition:** Pure silicon nitride grade. **Application:** Maximum toughness. Used at high feed rates for rough machining of gray cast iron, including machining through interruptions.	K		■	■	■	■	■			

Machinability of Cast Iron

- Unaged casting is difficult to machine and leads to shorter tool life.
- Low sulfur content leads to shorter tool life.
- High titanium content decreases the tool life significantly.
- Increased ferrite content leads to high chemical wear and a substantially shorter tool life.
- Compacted graphite cast iron shows high chemical wear.



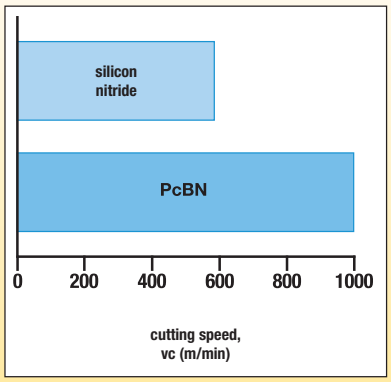
Proper application of KB1340™ — formation of protective layer; tool life should exceed 70 km sliding distance.



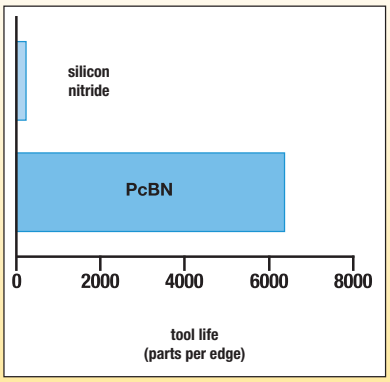
Comparison of the life of PcBN cutting tools in machining two different gray cast irons, primarily differing in sulfur content.

Gray Cast Iron Brake Disk Machining • Ceramic vs. PcBN

(a)



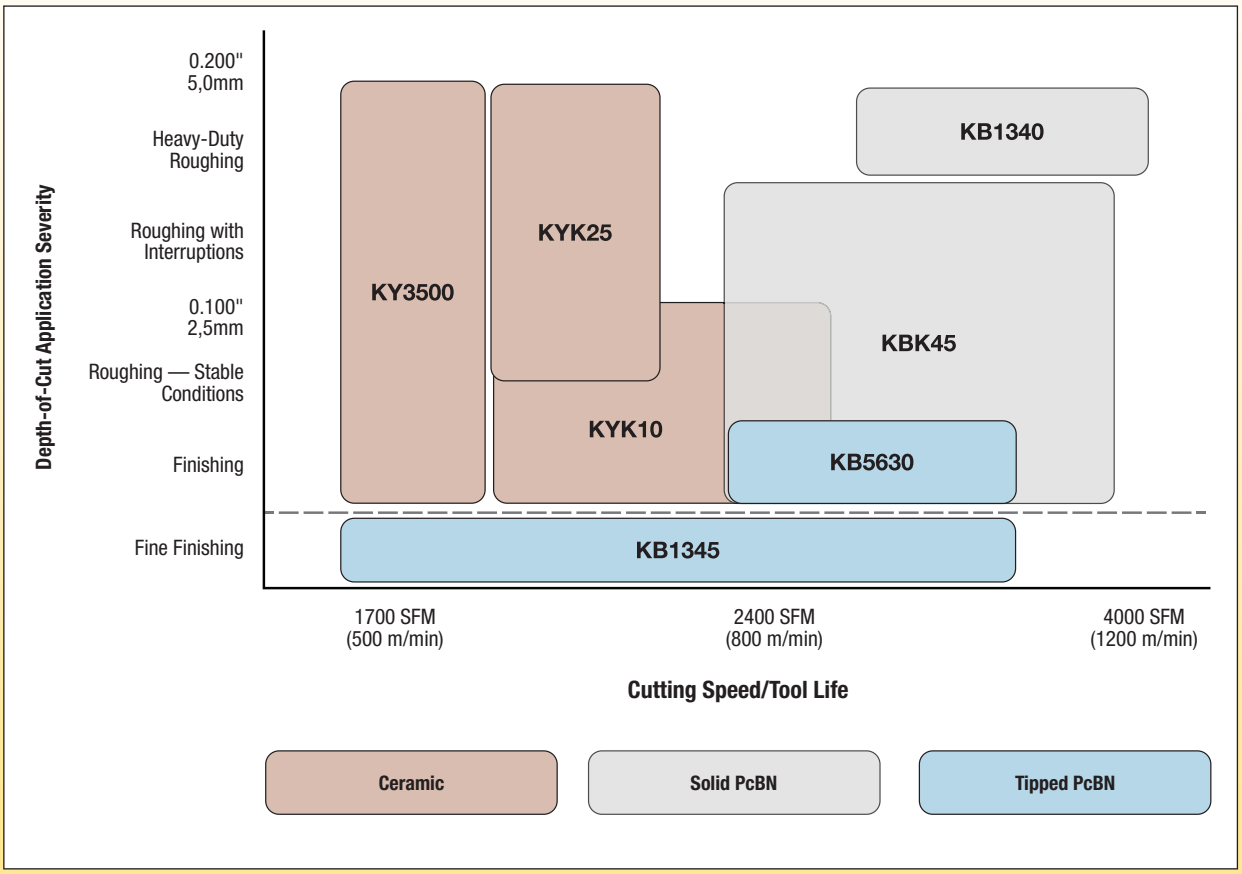
(b)



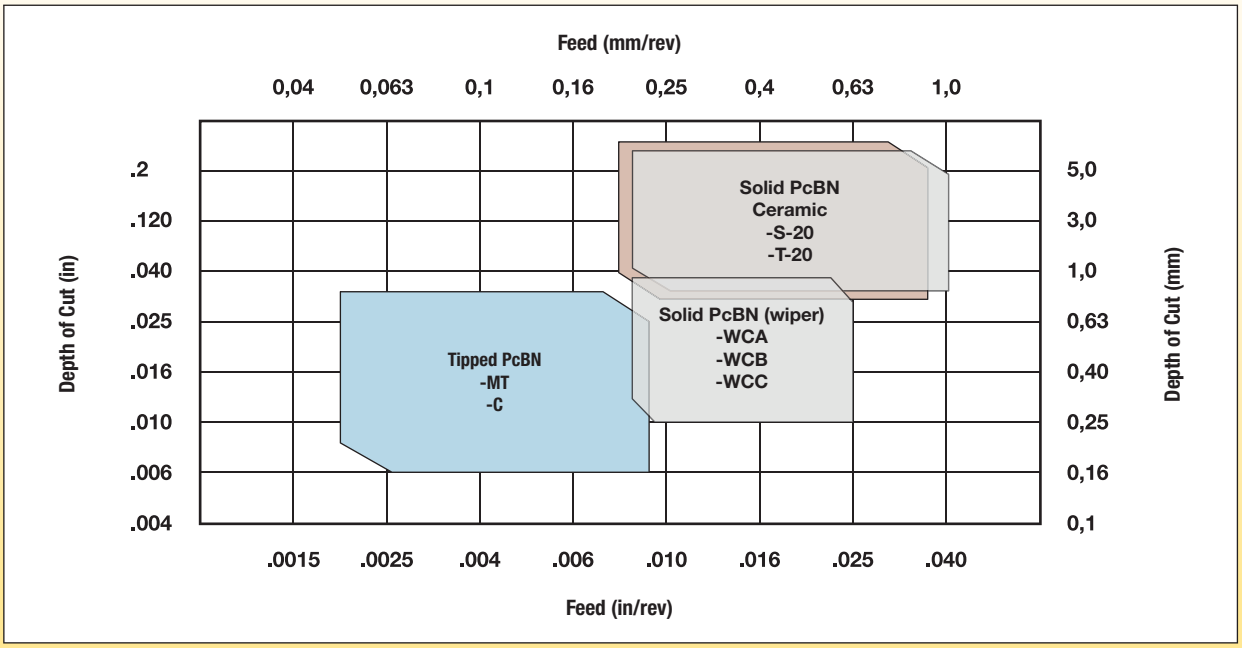
(c)

PcBN increases productivity when machining gray iron brake disks (a) in terms of cutting speed (b) and tool life (c) compared to silicon nitride ceramic.

Select the Cutting Material



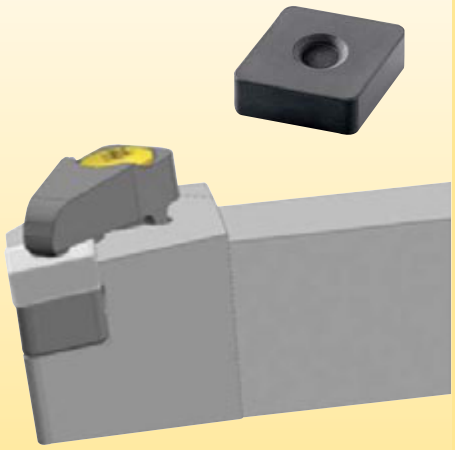
Depth of Cut



Dimple Clamps for Added Stability

Typical Application

Continuous cost pressures force manufacturers of gray cast iron brake disks to look for cost-cutting solutions. CBN inserts deliver high productivity and long tool life. Kennametal has developed the solid, high-content grade KB1340™, which provides superior performance when machining gray cast iron components, such as brake disks or fly wheels. To ensure secure seating in the toolholder, the inserts are available with dimple-design clamping. The clamps fit Ceramtec holders, which makes the conversion to Kennametal tooling easier.



Higher Productivity and Profitability

- Ensures tight and rigid clamping.
- Dimpled insert with special clamping provides increased stability in the pocket.
- Ideal for use in heavy-duty machining applications.
- Cladded clamps for improved resistance against chip wash are available upon request.
- The shallow dimple design enables the use of less expensive 3/16" (4,76mm) inserts.
- Round dimple design works with custom tooling where clamping direction must be offset due to space limitations.

Clamp Selection Chart

insert		clamp	
ANSI Catalog Number	ISO Catalog Number	Catalog Number	Order Number
CNGX433S0415	CNGX120412S01015	551.718–100° Corner	3968904
CNGX433S0415FW	CNGX120412S01015FW	551.718–100° Corner	3968904
CNGX434S0820	CNGX120416S02020	551.718–100° Corner	3968904
CNGF432	CNGF120408	551.718–100° Corner	3968904
DNGX434S0820	DNGX150416S02020	551.720	4094234
SNGX434S0820	SNGX120416S02020	551.718	3968904
SNGX534S0820	SNGX150416S02020	551.718	3968904
VNGX333S0820	VNGX160412S02020	551.721	4094236
TNGX333EFW	TNGX160412EFW	551.733	4094235

Wipers for Cast Iron Machining

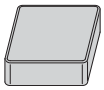
WCA
Wiper for cast iron machining for a feed rate up to f = 0.010/rev (0,25mm/rev).

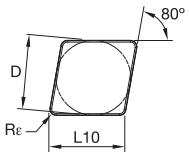
WCB
Wiper for cast iron machining for a feed rate up to f = 0.018/rev (0,45mm/rev).

WCC
Wiper for cast iron machining for a feed rate up to f = 0.025/rev (0,65mm/rev).

● first choice
○ alternate choice

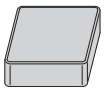
P			
M			
K		●	●
N			
S			○
H		○	●

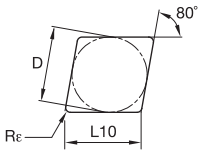




CNGN

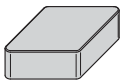
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
CNGN090408T02020	CNGN332T0820	9,53	3/8	9,67	.381	0,8	1/32	●	–
CNGN090412S02020	CNGN333S0820	9,53	3/8	9,67	.381	1,2	3/64	●	–
CNGN120408T02020	CNGN432T0820	12,70	1/2	12,90	.508	0,8	1/32	●	–
CNGN120412S02020	CNGN433S0820	12,70	1/2	12,90	.508	1,2	3/64	●	–
CNGN120416S02020	CNGN434S0820	12,70	1/2	12,90	.508	1,6	1/16	●	–

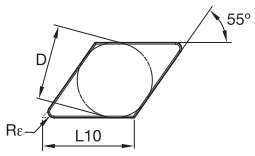




CNMN/CNM

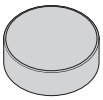
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
CNMN120408S02020	CNM432S0820	12,70	1/2	12,90	.508	0,8	1/32	–	●
CNMN120412S02020	CNM433S0820	12,70	1/2	12,90	.508	1,2	3/64	–	●

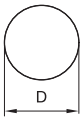




DNGN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
DNGN120408S02020	DNGN120408S02020	10,00	.394	12,21	.481	0,8	1/32	●	–
DNGN120412S02020	DNGN120412S02020	10,00	.394	12,21	.481	1,2	3/64	●	–



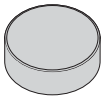


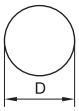
RNGN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
RNGN090400S02020	RNGN33S0820	9,53	3/8	–	–	–	–	●	–
RNGN120400S02020	RNGN43S0820	12,70	1/2	–	–	–	–	●	–

● first choice
○ alternate choice

P			
M			
K	●	●	
N			
S			○
H	○	●	





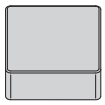
RNMN/RNM

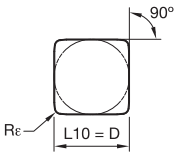
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
RNMN090300S02020	RNM32S0820	9,53	3/8	–	–	–	–	–	●
RNMN120300S02020	RNM42S0820	12,70	1/2	–	–	–	–	–	●
RNMN120400S02020	RNM43S0820	12,70	1/2	–	–	–	–	–	●

Kendex™ Positive Inserts

● first choice
○ alternate choice

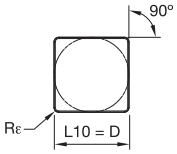
P			
M			
K	●	●	
N			
S			○
H	○	●	





SNGN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SNGN120408T02020	SNGN432T0820	12,70	1/2	12,70	.500	0,8	1/32	●	–
SNGN120412S02020	SNGN433S0820	12,70	1/2	12,70	.500	1,2	3/64	●	–
SNGN120416S02020	SNGN434S0820	12,70	1/2	12,70	.500	1,6	1/16	●	–

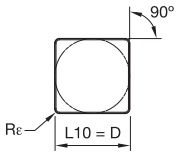


● first choice
○ alternate choice

P			
M			
K		●	●
N			
S			○
H		○	●

SNGN-WCB

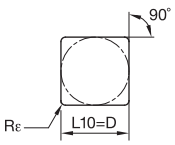
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SNGN090408S01015WCB	SNGN332S0415WCB	9,53	3/8	9,52	.375	0,8	1/32	●	–



SNGN-WCC

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SNGN090408S01015WCC	SNGN332S0415WCC	9,53	3/8	9,53	.375	0,8	1/32	●	–

Kendex™ Negative Inserts

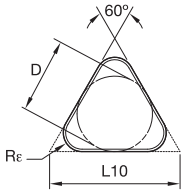


● first choice
○ alternate choice

P			
M			
K		●	●
N			
S			○
H		○	●

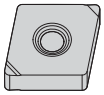
SNMN/SNM

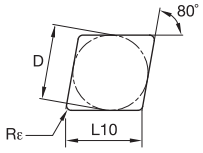
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SNMN090308S02020	SNM322S0820	9,53	3/8	9,53	.375	0,8	1/32	–	●
SNMN090316S02020	SNM324S0820	9,53	3/8	9,53	.375	1,6	1/16	–	●
SNMN120316S02020	SNM424S0820	12,70	1/2	12,70	.500	1,6	1/16	–	●
SNMN120416T02020	SNM434S0820	12,70	1/2	12,70	.500	1,6	1/16	–	●



TNGN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
TNGN110416S02020	TNGN234S0820	6,35	1/4	11,00	.433	1,6	1/16	●	–
TNGN160416S02020	TNGN334S0820	9,53	3/8	16,50	.650	1,6	1/16	●	–



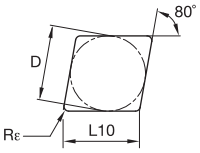


● first choice
○ alternate choice

P		
M		
K	●	●
N		
S		○
H	○	●

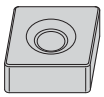
CNGF

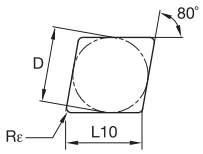
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
CNGF120408	CNGF432	12,70	1/2	12,90	.508	0,8	1/32	–	●



CNGX

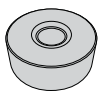
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
CNGX120408T02020	CNGX432T0820	12,70	1/2	12,90	.508	0,8	1/32	●	–
CNGX120412S01015	CNGX433S0415	12,70	1/2	12,90	.508	1,2	3/64	–	●
CNGX120412S02020	CNGX433S0820	12,70	1/2	12,90	.508	1,2	3/64	●	–
CNGX120416S02020	CNGX434S0820	12,70	1/2	12,90	.508	1,6	1/16	●	●

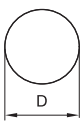




CNGX-FW

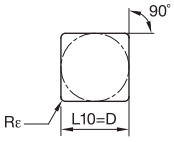
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
CNGX120412S01015FW	CNGX433S0415FW	12,70	1/2	12,90	.508	1,2	3/64	–	●





RNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
RNGX120400S02020	RNGX43S0820	12,70	1/2	—	—	—	—	●	–

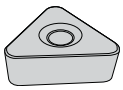


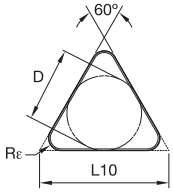
● first choice
○ alternate choice

P		
M		
K	●	●
N		
S		○
H	○	●

SNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SNGX120408T02020	SNGX432T0820	12,70	1/2	12,70	.500	0,8	1/32	●	–
SNGX120412S02020	SNGX433S0820	12,70	1/2	12,70	.500	1,2	3/64	●	–
SNGX120416S02020	SNGX434S0820	12,70	1/2	12,70	.500	1,6	1/16	●	●

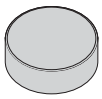


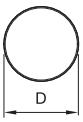


TNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
TNGX160416S02020	TNGX334S0820	9,53	3/8	16,50	.650	1,6	1/16	●	–

Kendex Positive Inserts



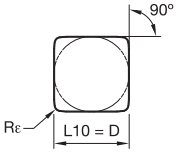


● first choice
○ alternate choice

P		
M		
K	●	●
N		
S		○
H	○	●

RCGN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
RCGN090400T01015	RCGN33T0415	9,53	3/8	–	–	–	–	●	–

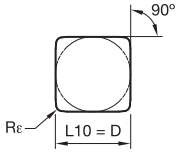


● first choice
○ alternate choice

P		
M		
K	●	●
N		
S		○
H	○	●

SCGN-WCB

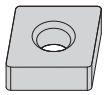
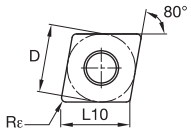
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SCGN090408S01015WCB	**SCGN332S0415WCB**	9,53	3/8	9,52	.375	0,8	1/32	●	–



SCGN-WCC

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SCGN090408S01015WCC	**SCGN332S0415WCC**	9,53	3/8	9,52	.375	0,8	1/32	●	–

Kenloc™ Inserts

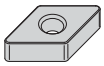
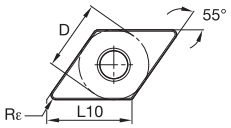
● first choice
○ alternate choice

P		
M		
K	●	●
N		
S		○
H	○	●

CNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
CNMA120408S02020	**CNMA432S0820**	12,70	1/2	12,90	.508	0,8	1/32	–	●
CNMA120412S02020	**CNMA433S0820**	12,70	1/2	12,90	.508	1,2	3/64	–	●

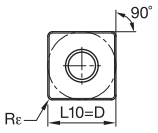
NOTE: For toolholders and boring bars, see pages B58–B76.

DNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
DNMA110408S02020	**DNMA332S0820**	9,53	3/8	11,63	.458	0,8	1/32	–	●
DNMA110412S02020	**DNMA333S0820**	9,53	3/8	11,63	.458	1,2	3/64	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.



● first choice
○ alternate choice

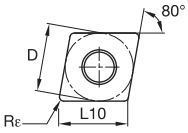
P	M	K	N	S	H
		●		○	○
		●			●

SNMA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBK45	KB1340
SNMA120412S02020	SNMA433S0820	12,70	1/2	12,70	.500	1,2	3/64	–	●

NOTE: For toolholders and boring bars, see pages B109–B120.

Advanced Material Inserts • Hard Turning Materials



● first choice
○ alternate choice

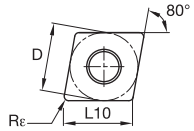
P	M	K	N	S	H
		●		○	●
		●		●	●

CNGA-FWMT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
CNGA120404S01025FWMT	CNGA431S0425FWMT	12,70	1/2	12,90	.508	0,4	1/64	–	●
CNGA120408S01025FWMT	CNGA432S0425FWMT	12,70	1/2	12,90	.508	0,8	1/32	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.

Tipped PcBN Inserts • Kenloc™ Inserts



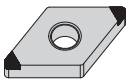
● first choice
○ alternate choice

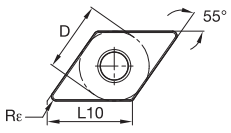
P	M	K	N	S	H
		●		○	●
		●			●

CNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
CNGA120404S01025MT	CNGA431S0425MT	12,70	1/2	12,90	.508	0,4	1/64	–	●
CNGA120408S01020MT	CNGA432S0420MT	12,70	1/2	12,90	.508	0,8	1/32	●	–
CNGA120408S01025MT	CNGA432S0425MT	12,70	1/2	12,90	.508	0,8	1/32	–	●
CNGA120408S02020MT	CNGA432S0820MT	12,70	1/2	12,90	.508	0,8	1/32	●	–
CNGA120412S01020MT	CNGA433S0420MT	12,70	1/2	12,90	.508	1,2	3/64	–	●
CNGA120412S01025MT	CNGA433S0425MT	12,70	1/2	12,90	.508	1,2	3/64	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.

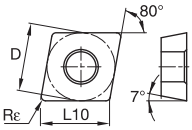




DNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
DNGA150404S01025MT	DNGA431S0425MT	12,70	1/2	15,50	.610	0,4	1/64	–	●
DNGA150408S01020MT	DNGA432S0420MT	12,70	1/2	15,50	.610	0,8	1/32	●	–
DNGA150408S01025MT	DNGA432S0425MT	12,70	1/2	15,50	.610	0,8	1/32	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.



● first choice
○ alternate choice

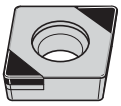
P			
M			
K	●	●	
N			
S	○	●	
H	●	●	

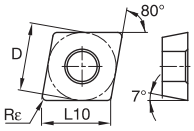
CCGW-C

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
CCGW060202S01015C	CCGW21505S0415C	6,35	1/4	6,45	.254	0,2	.008	–	●
CCGW060204S01015C	CCGW2151S0415C	6,35	1/4	6,45	.254	0,4	1/64	–	●
CCGW09T308EC	CCGW3252EC	9,53	3/8	9,67	.381	0,8	1/32	●	–

NOTE: For toolholders and boring bars, see pages B193–B198.

Kenloc™ Inserts





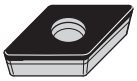
● first choice
○ alternate choice

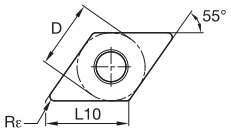
P			
M			
K	●	●	
N			
S	○	●	
H	●	●	

CCGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
CCGW09T304S01015MT	CCGW3251S0415MT	9,53	3/8	9,67	.381	0,4	1/64	–	●
CCGW09T308S01015MT	CCGW3252S0415MT	9,53	3/8	9,67	.381	0,8	1/32	–	●

NOTE: For toolholders and boring bars, see pages B193–B198.





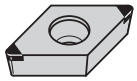
DCGW-C

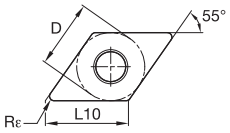
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
DCGW070202S01015C	DCGW21505S0415C	6,35	1/4	7,75	.305	0,2	.008	–	●
DCGW070204S01015C	DCGW2151S0415C	6,35	1/4	7,75	.305	0,4	1/64	–	●

NOTE: For toolholders and boring bars, see pages B227–B230.

● first choice
○ alternate choice

P		
M		
K	●	●
N		
S	○	●
H	●	●

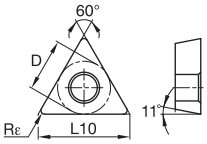




DCGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
DCGW11T304S01015MT	**DCGW3251S0415MT**	9,53	3/8	11,63	.458	0,4	1/64	●	●
DCGW11T308S01015MT	**DCGW3252S0415MT**	9,53	3/8	11,63	.458	0,8	1/32	●	●

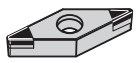
NOTE: For toolholders and boring bars, see pages B227–B230.

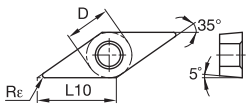


TPGW-C

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
TPGW110204EC	**TPGW2151EC**	6,35	1/4	11,00	.433	0,4	1/64	●	–
TPGW110208S01015C	**TPGW2152S0415C**	6,35	1/4	11,00	.433	0,8	1/32	–	●

NOTE: For toolholders and boring bars, see pages B270–B279.

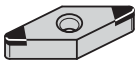


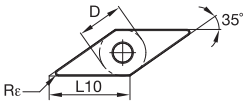


VBGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
VBGW160404S01015MT	**VBGW331S0415MT**	9,53	3/8	16,61	.654	0,4	1/64	–	●
VBGW160408S01015MT	**VBGW332S0415MT**	9,53	3/8	16,61	.654	0,8	1/32	–	●

NOTE: For toolholders and boring bars, see pages B282–B285.





● first choice
○ alternate choice

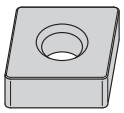
P			
M			
K		●	●
N			
S		○	●
H		●	●

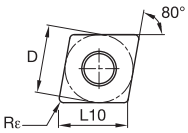
VNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KB1345	KB5630
VNGA160404S01025MT	VNGA331S0425MT	9,53	3/8	16,61	.654	0,4	1/64	–	●
VNGA160408S01025MT	VNGA332S0425MT	9,53	3/8	16,61	.654	0,8	1/32	–	●

NOTE: For toolholders and boring bars, see pages B282–B285.

ISO/ANSI Ceramic Inserts





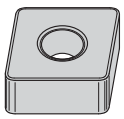
● first choice
○ alternate choice

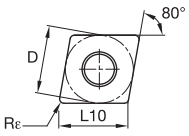
P			
M			
K	●	●	●
N			
S			
H			

CNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
CNGA120408T02020	CNGA432T0820	12,70	1/2	12,90	.508	0,8	1/32	●	●	●
CNGA120412T02020	CNGA433T0820	12,70	1/2	12,90	.508	1,2	3/64	●	●	●
CNGA120416T02020	CNGA434T0820	12,70	1/2	12,90	.508	1,6	1/16	●	●	●
CNGA160612T02020	CNGA543T0820	15,88	5/8	16,12	.635	1,2	3/64	●	–	●
CNGA160616T02020	CNGA544T0820	15,88	5/8	16,12	.635	1,6	1/16	–	–	●
CNGA190612T02020	CNGA643T0820	19,05	3/4	19,34	.762	1,2	3/64	–	–	●
CNGA190616T02020	CNGA644T0820	19,05	3/4	19,34	.762	1,6	1/16	●	–	●

NOTE: For toolholders and boring bars, see pages B58–B76.





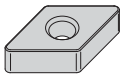
CNGA-FW

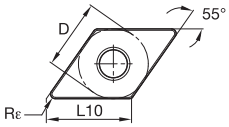
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
CNGA120408T01020FW	CNGA432T0420FW	12,70	1/2	12,90	.508	0,8	1/32	●	–	●
CNGA120412T01020FW	CNGA433T0420FW	12,70	1/2	12,90	.508	1,2	3/64	●	●	●
CNGA120412T02020FW	CNGA433T0820FW	12,70	1/2	12,90	.508	1,2	3/64	–	●	–
CNGA120416T01020FW	CNGA434T0420FW	12,70	1/2	12,90	.508	1,6	1/16	–	–	●

NOTE: For toolholders and boring bars, see pages B58–B76.

● first choice
○ alternate choice

P				
M				
K	●	●	●	
N				
S				
H				

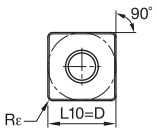




DNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
DNGA150408T02020	DNGA432T0820	12,70	1/2	15,50	.610	0,8	1/32	–	–	●
DNGA150412T02020	DNGA433T0820	12,70	1/2	15,50	.610	1,2	3/64	–	–	●
DNGA150416T02020	DNGA434T0820	12,70	1/2	15,50	.610	1,6	1/16	●	●	●
DNGA150608T02020	DNGA442T0820	12,70	1/2	15,50	.610	0,8	1/32	–	–	●
DNGA150612T02020	DNGA443T0820	12,70	1/2	15,50	.610	1,2	3/64	–	–	●

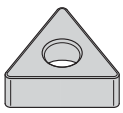
NOTE: For toolholders and boring bars, see pages B87–B96.

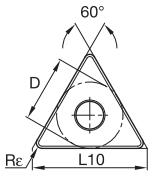


SNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
SNGA120408T02020	SNGA432T0820	12,70	1/2	12,70	.500	0,8	1/32	●	●	●
SNGA120412T02020	SNGA433T0820	12,70	1/2	12,70	.500	1,2	3/64	●	–	●
SNGA120416T02020	SNGA434T0820	12,70	1/2	12,70	.500	1,6	1/16	–	–	●
SNGA150612T02020	SNGA543T0820	15,88	5/8	15,88	.625	1,2	3/64	●	–	–
SNGA150612T02020	SNGA543T	15,88	5/8	15,88	.625	1,2	3/64	–	–	●
SNGA150616T02020	SNGA544T	15,88	5/8	15,88	.625	1,6	1/16	–	–	●
SNGA190612T02020	SNGA643T0820	19,05	3/4	19,05	.750	1,2	3/64	–	–	●

NOTE: For toolholders and boring bars, see pages B109–B120.





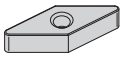
TNGA

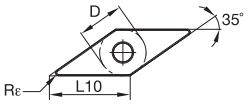
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
TNGA160408T02020	TNGA332T0820	9,53	3/8	16,50	.650	0,8	1/32	–	●	●
TNGA160412T02020	TNGA333T0820	9,53	3/8	16,50	.650	1,2	3/64	–	–	●
TNGA160416T02020	TNGA334T0820	9,53	3/8	16,50	.650	1,6	1/16	–	–	●

NOTE: For toolholders and boring bars, see pages B131–B143.

● first choice
○ alternate choice

P			
M			
K	●	●	●
N			
S			
H			

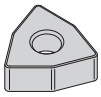


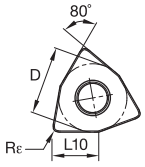


VNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
VNGA160408T02020	**VNGA332T0820**	9,53	3/8	16,61	.654	0,8	1/32	–	–	●
VNGA220408T02020	**VNGA432T0820**	12,70	1/2	22,14	.872	0,8	1/32	●	–	–

NOTE: For toolholders and boring bars, see pages B150–B155.

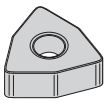


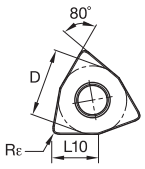


WNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
WNGA080408T02020	**WNGA432T0820**	12,70	1/2	8,69	.342	0,8	1/32	●	–	●
WNGA080412T02020	**WNGA433T0820**	12,70	1/2	8,69	.342	1,2	3/64	●	–	●
WNGA080416T02020	**WNGA434T0820**	12,70	1/2	8,69	.342	1,6	1/16	–	–	●

NOTE: For toolholders and boring bars, see page B163.





WNGA-FW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
WNGA080408T01020FW	**WNGA432T0420FW**	12,70	1/2	8,69	.342	0,8	1/32	–	–	●

NOTE: For toolholders and boring bars, see page B163.

● first choice
○ alternate choice

P			
M			
K	●	●	●
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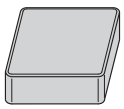
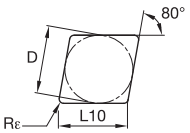
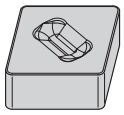
S			
H			

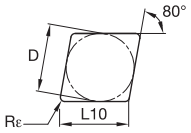




CNGN/CNG

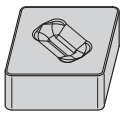
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
CNGN120408T02020	CNG432T0820	12,70	1/2	12,90	.508	0,8	1/32	–	–	●
CNGN120412T02020	CNG433T0820	12,70	1/2	12,90	.508	1,2	3/64	–	–	●
CNGN120416T02020	CNG434T0820	12,70	1/2	12,90	.508	1,6	1/16	–	–	●
CNGN120712T02020	CNG453T0820	12,70	1/2	12,90	.508	1,2	3/64	–	–	●
CNGN120716T02020	CNG454T0820	12,70	1/2	12,90	.508	1,6	1/16	–	●	–

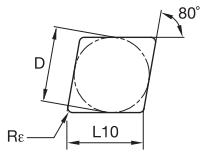




CNGX-FW

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
CNGX120708T01020FW	CNGX452T0420FW	12,70	1/2	12,90	.508	0,8	1/32	–	–	●
CNGX120712T01020FW	CNGX453T0420FW	12,70	1/2	12,90	.508	1,2	3/64	–	–	●
CNGX120716T01020FW	CNGX454T0420FW	12,70	1/2	12,90	.508	1,6	1/16	–	–	●





CNMX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
CNMX120708T02020	CNMX452T0820	12,70	1/2	12,90	.508	0,8	1/32	–	–	●
CNMX120712T02020	CNMX453T0820	12,70	1/2	12,90	.508	1,2	3/64	–	–	●
CNMX120716T02020	CNMX454T0820	12,70	1/2	12,90	.508	1,6	1/16	–	–	●

● first choice
○ alternate choice

P				
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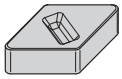
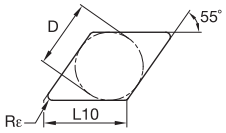
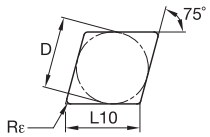
K	●	●	●	
N				
S				
H				





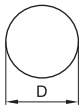
DNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
DNGX120708T02020	DNGX120708T02020	10,00	.3937	12,21	.481	0,8	1/32	–	–	●
DNGX120712T02020	DNGX120712T02020	10,00	.3937	12,21	.481	1,2	3/64	●	–	●
DNGX120716T02020	DNGX120716T02020	10,00	.3937	12,21	.481	1,6	1/16	–	–	●
DNGX150708T02020	DNGX452T0820	12,70	1/2	15,50	.610	0,8	1/32	–	–	●
DNGX150712T02020	DNGX453T0820	12,70	1/2	15,50	.610	1,2	3/64	●	–	●
DNGX150716T02020	DNGX454T0820	12,70	1/2	15,50	.610	1,6	1/16	–	–	●



ENGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
ENGX130716T02020	ENGX454T0820	12,70	1/2	13,15	.518	1,6	1/16	–	–	●

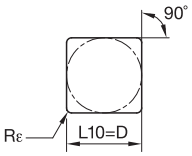


● first choice
○ alternate choice

P			
M			
K	●	●	●
N			
S			
H			

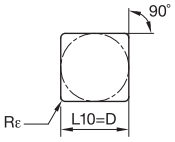
RNGN/RNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
RNGN120400T02020	RNG43T0820	12,70	1/2	–	–	–	–	–	●	●
RNGN120700T02020	RNG45T0820	12,70	1/2	–	–	–	–	–	–	●
RNGN190700T02020	RNG65T0820	19,05	3/4	–	–	–	–	–	–	●



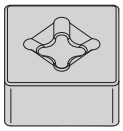
SNGN/SNG

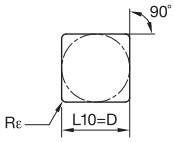
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
SNGN090308T02020	SNG322T0820	9,53	3/8	9,53	.375	0,8	1/32	–	–	●
SNGN120408T02020	SNG432T0820	12,70	1/2	12,70	.500	0,8	1/32	●	–	●
SNGN120412T02020	SNG433T0820	12,70	1/2	12,70	.500	1,2	3/64	●	–	●
SNGN120416T02020	SNG434T0820	12,70	1/2	12,70	.500	1,6	1/16	–	–	●
SNGN120432T02020	SNG438T0820	12,70	1/2	12,70	.500	3,2	1/8	–	–	●
SNGN120712T02020	SNG453T0820	12,70	1/2	12,70	.500	1,2	3/64	●	–	–
SNGN120716T02020	SNG454T0820	12,70	1/2	12,70	.500	1,6	1/16	–	–	●
SNGN190416T02020	SNG634T0820	19,05	3/4	19,05	.750	1,6	1/16	–	–	●



SNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
SNGX120712T02020	SNGX453T0820	12,70	1/2	12,70	.500	1,2	3/64	●	●	●
SNGX120716T02020	SNGX454T0820	12,70	1/2	12,70	.500	1,6	1/16	●	●	●
SNGX150716T02020	SNGX554T0820	15,88	5/8	15,88	.625	1,6	1/16	–	–	●
SNGX150724T02020	SNGX556T0820	15,88	5/8	15,88	.625	2,4	3/32	–	–	●



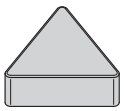


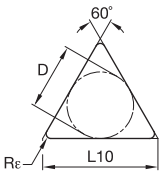
● first choice
○ alternate choice

P			
M			
K	●	●	●
N			
S			
H			

SNMX

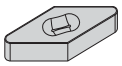
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
SNMX120712T02020	SNMX453T0820	12,70	1/2	12,70	.500	1,2	3/64	–	–	●
SNMX120716T02020	SNMX454T0820	12,70	1/2	12,70	.500	1,6	1/16	–	–	●
SNMX150716T02020	SNMX554T0820	15,88	5/8	15,88	.625	1,6	1/16	–	–	●

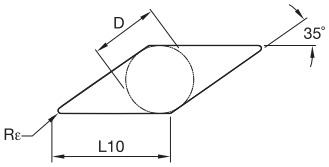




TNGN/TNG

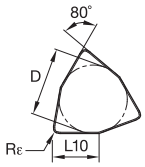
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
TNGN160408T02020	TNG332T0820	9,53	3/8	16,50	.650	0,8	1/32	–	–	●
TNGN220416T02020	TNG434T0820	12,70	1/2	22,00	.866	1,6	1/16	–	–	●





VNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
VNGX160712T02020	VNGX353T0820	9,52	3/8	16,61	.654	1,2	3/64	–	–	●
VNGX160716T02020	VNGX354T0820	9,53	3/8	16,61	.654	1,6	1/16	–	–	●

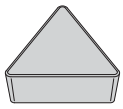


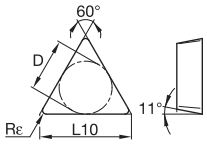
WNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
WNGX080712T02020	WNGX453T0820	12,70	1/2	8,69	.342	1,2	3/64	–	●	●

● first choice
○ alternate choice

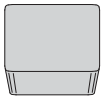
P			
M			
K	●	●	●
N			
S			
H			

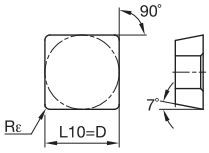




TPGN/TPG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
TPGN160308T02020	TPG322T0820	9,53	3/8	16,50	.650	0,8	1/32	–	–	●
TPGN160312T02020	TPG323T0820	9,53	3/8	16,50	.650	1,2	3/64	–	●	●
TPGN220408T02020	TPG432T0820	12,70	1/2	22,00	.866	0,8	1/32	–	–	●
TPGN220412T02020	TPG433T0820	12,70	1/2	22,00	.866	1,2	3/64	–	–	●





SCGN-FW/SCG-FW

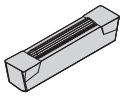
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYK25	KYK10	KY3500
SCGN090408EFW	SCG332FW	9,53	3/8	9,53	.375	0,8	1/32	–	–	●

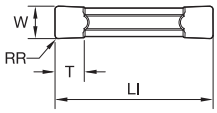
Clamp Selection Chart

order number	catalog number	clamp	
3960807	CNGX120412S01015	551.718–100° Corner	551.716–80° Corner
3960808	CNGX120412S01015FW	551.718–100° Corner	551.716–80° Corner
3960806	CNGX120416S02020	551.718–100° Corner	551.716–80° Corner
3960811	DNGX150416S02020	551.720	551.720
3960812	SNGX120416S02020	551.718	551.718
3960823	SNGX150416S02020	551.718	551.718
3876843	CNGF120408	551.718–100° Corner	551.716–80° Corner
3960825	TNGX160412EFW	551.733	551.733

● first choice
○ alternate choice

P		
M		
K		●
N		
S		
H		

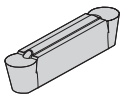


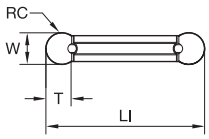


A4G-P-T

ISO catalog number	ANSI catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KY3500
A4G0300M03P04T01025	**A4G0300M03P04T01025**	3	3,00	.118	0,4	.016	20	.79	3,4	.134	●
A4G125I03P1T0425	**A4G125I03P1T0425**	3	3,18	.125	0,4	.016	20	.79	3,4	.134	●
A4G0400M04P04T01025	**A4G0400M04P04T01025**	4	4,00	.157	0,4	.016	20	.79	3,4	.134	●
A4G0500M05P08T01025	**A4G0500M05P08T01025**	5	5,00	.197	0,8	.031	25	.98	4,2	.165	●
A4G0600M06P08T01025	**A4G0600M06P08T01025**	6	6,00	.236	0,8	.031	30	1.18	4,8	.189	●
A4G250I06P2T0425	**A4G250I06P2T0425**	6	6,35	.250	0,8	.031	30	1.18	4,9	.193	●
A4G0800M08P08T01025	**A4G0800M08P08T01025**	8	8,00	.315	0,8	.031	30	1.18	6,4	.250	●

NOTE: For A4 holder, boring bars, and blades, see pages C114–C151.





A4R-P-T

ISO catalog number	ANSI catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KY3500
A4R0300M03P00T01025	**A4R0300M03P00T01025**	3	3,00	.118	1,5	.059	20	.79	2,4	.095	●
A4R0500M05P00T01025	**A4R0500M05P00T01025**	5	5,00	.197	2,5	.098	25	.98	4,1	.163	●
A4R0600M06P00T01025	**A4R0600M06P00T01025**	6	6,00	.236	3,0	.118	30	1.18	4,3	.167	●
A4R250I06P00T0425	**A4R250I06P00T0425**	6	6,35	.250	3,2	.125	30	1.18	4,8	.191	●
A4R0800M08P00T01025	**A4R0800M08P00T01025**	8	8,00	.315	4,0	.157	30	1.18	6,4	.250	●

NOTE: For toolholders and boring bars, see page B163.

Hard Turning

High- and Low-Content PcBN Inserts

The current global metalcutting climate has put increased focus on high productivity and cost reductions coming from cutting tools. These requirements lead to the rapid growth and implementation of cutting tools using superhard materials. As the name implies, these materials have a significant advantage in hardness over conventional tool materials. For the end user this translates into increased productivity (higher cutting speeds, longer tool life, etc.), lower tooling cost per part, and the ability to process materials that were previously not machinable with conventional tooling.

Kennametal is at the forefront of developing and implementing superhard materials in our standard and special tooling solutions across all our product lines. Our approach to superhard tooling starts with customer needs and constraints. We then develop the best superhard solutions for the customer's specific needs.

PcBN is thermally stable up to approximately 2,190º F and has high resistance to chemical attack. As a result, extreme temperatures like those that occur when machining hard ferrous metals do not cause difficulties and can be used to promote self-induced hot cutting. This adds technical and productivity benefits, especially when compared with grinding. In most cases, performance is significantly better than that attained with conventional tool materials, such as tungsten carbides and ceramics.

There are limitations for PcBN, however, in the machining of austenitic steels and ferritic cast irons, which can cause increased PcBN edge wear.

PcBN Inserts

KBH10™ Grade

High Volume

- A new patented low PcBN content grade for continuous turning operations.
- Excellent performance in the machining of hardened steels with lower carbide inclusion content.
- Available as tipped and solid PcBN inserts.

KBH20™ Grade

Higher Productivity and Profitability

- Newly developed substrate allows application in a wide variety of demanding applications.
- Nano-composite coating enhances speed capabilities and tool life. Improved edge preparation technology for longer tool life, reliable performance, better surface finish, and tighter workpiece tolerances.
- Large standard portfolio.
- CB1 chipbreaker in positive and negative geometry, solving chipbreaking and chip control issues.

KB5630™ Grade

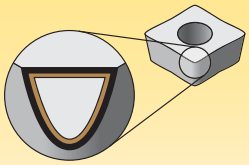
- Best applied in severe cutting conditions and heavy interruptions.
- Excellent abrasion resistance.
- PVD coating provides a thermal barrier to reduce crater wear and extend tool life.
- Excellent performance in machining of hardened steels and powder metals.
- Available as tipped and full face PcBN inserts.

Ceramic Inserts

KY1615 Grade

Low Volume and Higher Process Variations

- Mixed (black) ceramic.
- Excellent wear resistance combined with good toughness properties.
- Excellent performance in the finishing and semi-finishing of hardened steels and iron-based materials.

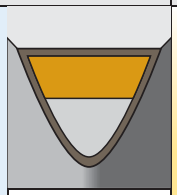
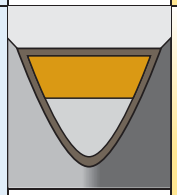
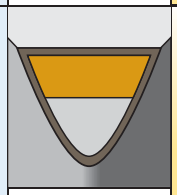


Coatings provide high-speed capability and are engineered for finishing to light roughing.

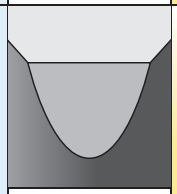
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

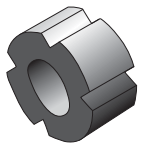
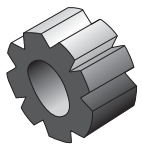
PcBN — Polycrystalline Cubic Boron Nitride Grades

Coating	Grade	Grade Description	05	10	15	20	25	30	35	40	45
	KBH20	**Composition:** A low content PcBN grade with a PVD TiN/AlTiN coating for added wear resistance. **Application:** KBH20™ is the ideal PcBN hard turning grade for continuous to lightly interrupted cutting applications. The structure, as well as the different edge preparations, enable repeatable workpiece tolerances, excellent surface finishes, and surface integrity. Typical applications are case-hardened steel components such as gears, shafts, and other drive-train components.									
	KBH10	**Composition:** A low content PcBN grade with a patented binder structure. **Application:** Designed for the precision machining of hardened steels (>45 HRC). It can be effectively applied on bearing steels, hot and cold work tool steels, high speed steels, die steels, case hardened steels, carburized and nitrided irons, and some hard coatings. Available in a multi-tip format with a wide range of edge preps, insert styles, and wiper geometries.									
	KB5630	**Composition:** A high content PcBN with a PVD AlTiN coating for added wear resistance. **Application:** Designed for roughing to finishing of hardened steels (>45 HRC), abrasive workpiece materials such as sintered valve seat materials, powder metallurgy steels, and hard high-alloy cast irons. The PVD coating provides resistance to crater wear and increased resistance to chipping. A wide range of styles are available, including Screw-On geometries that are ideal for boring applications.									

Ceramic Grades

Coating	Grade	Grade Description	05	10	15	20	25	30	35	40	45
	KY1615	**Composition:** An advanced lumina/TiC black ceramic grade. **Application:** Great combination of toughness and wear resistance; used for machining alloy steels, tool steels, and stainless steels to 60 HRC (653 HB). It is also applied in finish turning and boring of cast irons.									

Tool Testing Information

	Grade	Sharp	Light Cut Edge Metric Inch	Standard Cut Edge Metric Inch	Strong Cut Edge Metric Inch
	KBH10*	E	10 15 04 15	12 25 05 25	custom
	KBH20*	custom	10 15 04 15	12 25 05 25	17 35 07 35
	KB5630***	custom	custom	10 25 04 25	17 35 07 35

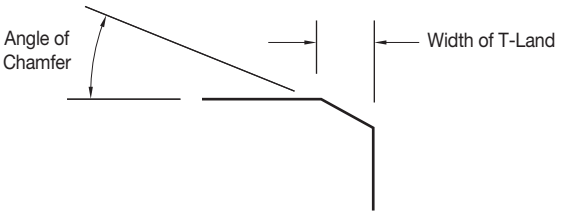
- X Crater Wear
- ✔ Chipping
- ✔ Breakages
- ✔ Stability

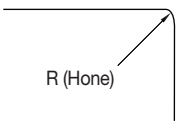
- ✔ Crater Wear
- X Chipping
- ✔ Breakages
- X Stability

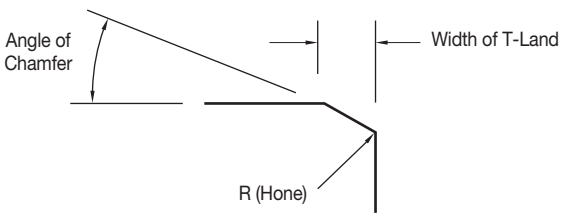
NOTE: KBH20™ Inserts with 1225 (0525 in inch) are the inserts of choice for initial testing.
For fine tuning, stay in the same grade but use either sharper edges in light cuts or heavier edges if need to overcome interruptions and variations.
If KBH20 is failing, change grade to either a more wear–resistant or fracture–resistant grade.
* Lowest toughness
** Medium toughness
*** Highest toughness

E = Hone
T = T-land with angle
S = T-land with angle and hone

Example : S01015 is a 100 µm
T-land at 15 degrees with honing.







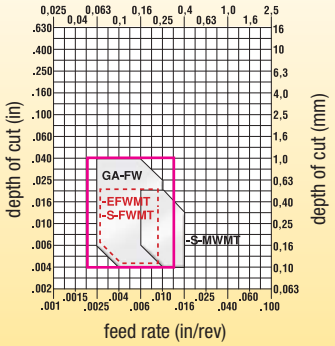
Step 1 • Select the insert geometry

Negative Wiper Inserts

-S..MWMT (multitipped) Medium Wiper

..MS (multitipped) Finishing Wiper

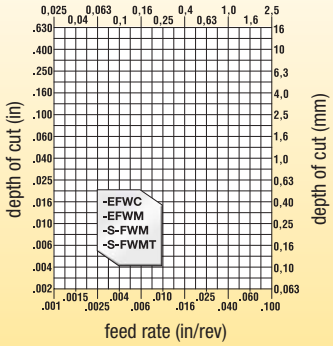
-S..FWMT (multitipped) Finishing Wiper



Positive Wiper Inserts

-EFWC (full face) -EFWM (single tipped) Finishing Wiper

-S..FWM (single tipped) -S..FWMT (multitipped) Fine Finishing Wiper



Step 2 • Select the grade

cutting condition	Negative Insert Geometry -S..FWMT	Negative Insert Geometry -EFWMT	Positive Insert Geometry -S..FWMT	Positive Insert Geometry -S..FWM -S..FWMT	Positive Insert Geometry -EFWM -EFWC
heavily interrupted cut	KB5630	KB5630	–	–	–
lightly interrupted cut	KB5630/ KBH20	KBH20	KBH20	KBH20	KBH20
varying depth of cut, casting, or forging skin	KBH20	KB1610/ KBH10	KBH20	KBH20	KBH20
smooth cut, pre-turned surface	KBH10	KBH10	KBH10	KBH10	KBH10

Step 1 • Select the insert geometry

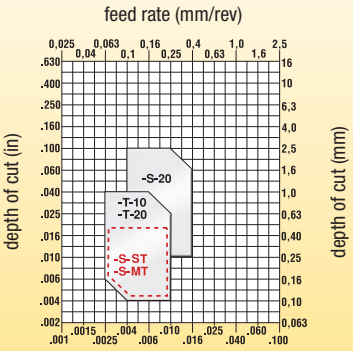
Negative Wiper Inserts

-S-20 Medium Machining

-S..ST (single tipped) -S..MT (multitipped) Finishing

-T..10 -T.20 Fine Finishing

-T..10 -T.20 Fine Finishing



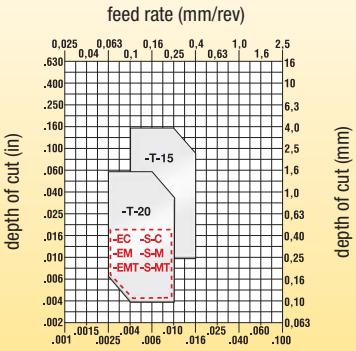
Positive Wiper Inserts

-T-15 Medium Machining

-EC (full face) -EM (single tipped) -EMT (multitipped) Finishing

-T-20 Fine Finishing

-S....C (full face) -S....M (single tipped) -S....MT (multitipped) Fine Finishing



Step 2 • Select the grade

cutting condition	Negative Insert Geometry -T.10 -T.20	Positive Insert Geometry -T-15
heavily interrupted cut	–	–
lightly interrupted cut	–	KY1615
varying depth of cut, casting, or forging skin	KY1615	KY1615
smooth cut, pre-turned surface	KY1615	KY1615

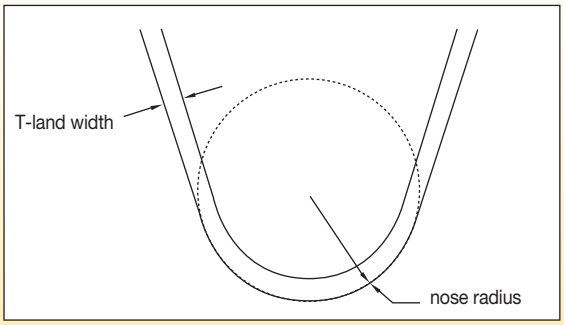
Step 1 • Select the cutting speed

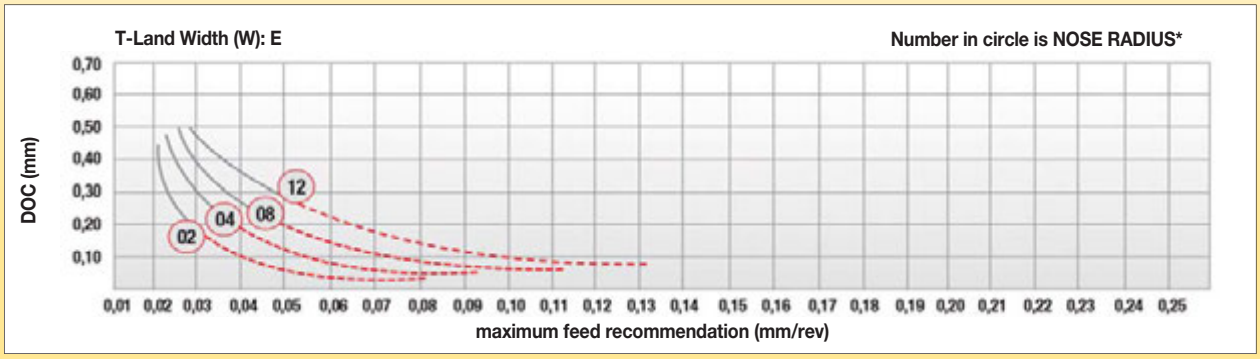
material group	grade	speed — m/min (SFM) 15 (50)	45 (150)	75 (250)	110 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	Starting Conditions m/min	SFM
H1	KBH20					◁▷					155	510
	KBH10					◁▷					150	490
	KB5630				◁▷						105	345
	KY1615				◁▷						100	325

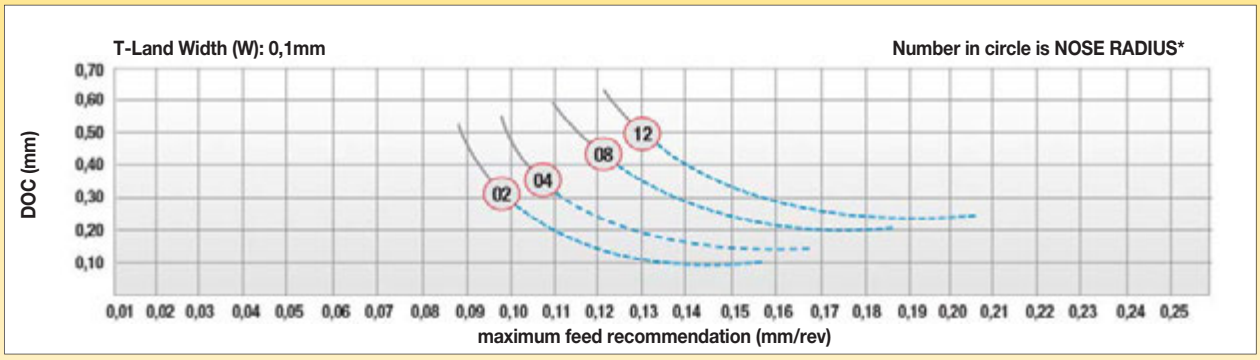
T-Land Width

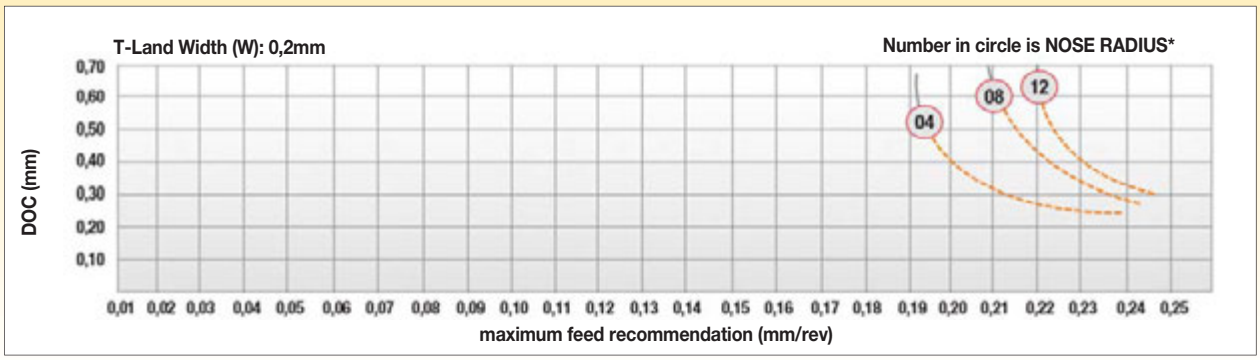
Example 1: If the feed, depth of cut, and the tool nose radius are fixed, use these values to see what T-land width should be used.

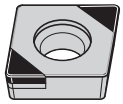
Example 2: If you want to use a specific T-land width or hone only edge, use the chart below to see what maximum feeds and depths of cut are recommended for different nose radii.

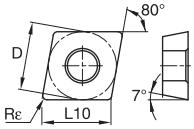












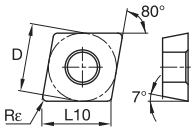
● first choice
○ alternate choice

P				●	
M					
K				●	
N					
S				●	
H	●	●	●	●	

CCGM

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CCGM09T304S01325MTCB1	CCGM3251S0525MTCB1	9,53	3/8	9,67	.381	0,4	1/64	–	●	–	–
CCGM09T308S01325MTCB1	CCGM3252S0525MTCB1	9,53	3/8	9,67	.381	0,8	1/32	–	●	–	–

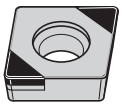
NOTE: For toolholders and boring bars, see pages B193–B198.

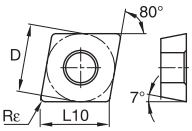


CCGW-C

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CCGW060202S01015C	CCGW21505S0415C	6,35	1/4	6,45	.254	0,2	.008	–	–	●	–
CCGW060204S01015C	CCGW2151S0415C	6,35	1/4	6,45	.254	0,4	1/64	–	–	●	–

NOTE: For toolholders and boring bars, see pages B193–B198.

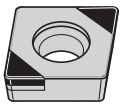


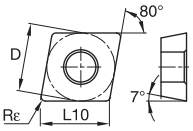


CCGW-FWMT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CCGW09T304S01015FWMT	CCGW3251S0415FWMT	9,53	3/8	9,67	.381	0,4	1/64	–	●	–	–
CCGW09T308S01015FWMT	CCGW3252S0415FWMT	9,53	3/8	9,67	.381	0,8	1/32	●	●	–	–

NOTE: For toolholders and boring bars, see pages B193–B198.





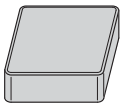
CCGW-MT

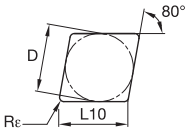
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CCGW060202S01015MT	CCGW21505S0415MT	6,35	1/4	6,45	.254	0,2	.008	●	–	–	–
CCGW060202S01225MT	CCGW21505S0525MT	6,35	1/4	6,45	.254	0,2	.008	–	●	–	–
CCGW060204S01015MT	CCGW2151S0415MT	6,35	1/4	6,45	.254	0,4	1/64	●	–	–	–
CCGW060204S01225MT	CCGW2151S0525MT	6,35	1/4	6,45	.254	0,4	1/64	–	●	–	–
CCGW09T302S01015MT	CCGW32505S0415MT	9,53	3/8	9,67	.381	0,2	.008	●	–	–	–
CCGW09T302S01225MT	CCGW32505S0525MT	9,53	3/8	9,67	.381	0,2	.008	–	●	–	–
CCGW09T304S01015MT	CCGW3251S0415MT	9,53	3/8	9,67	.381	0,4	1/64	●	●	●	–
CCGW09T304S01225MT	CCGW3251S0525MT	9,53	3/8	9,67	.381	0,4	1/64	●	●	–	–
CCGW09T308S01015MT	CCGW3252S0415MT	9,53	3/8	9,67	.381	0,8	1/32	●	●	●	–
CCGW09T308S01225MT	CCGW3252S0525MT	9,53	3/8	9,67	.381	0,8	1/32	●	●	–	–
CCGW120408S01015MT	CCGW432S0415MT	12,70	1/2	12,90	.508	0,8	1/32	–	●	–	–

NOTE: For toolholders and boring bars, see pages B193–B198.

● first choice
○ alternate choice

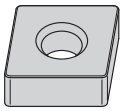
P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

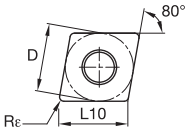




CNGN/CNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CNGN120404T02020	CNG431T0820	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	●
CNGN120408T02020	CNG432T0820	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●
CNGN120708T02020	CNG452T0820	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●
CNGN120412T02020	CNG433T0820	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	●
CNGN120712T02020	CNG453T0820	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	●
CNGN120716T02020	CNG454T0820	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	●
CNGN160716T02020	CNG554T0820	15,88	5/8	16,12	.635	1,6	1/16	–	–	–	●
CNGN160716T05015	CNG554T2015	15,88	5/8	16,12	.635	1,6	1/16	–	–	–	●

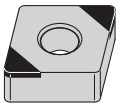


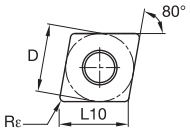


CNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CNGA120404T02020	CNGA431T0820	12,70	1/2	12,90	.508	0,4	1/64	–	–	–	●
CNGA120408T00520	CNGA432T0220	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●
CNGA120408T02020	CNGA432T0820	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●
CNGA120412T02020	CNGA433T0820	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	●
CNGA120416T02020	CNGA434T0820	12,70	1/2	12,90	.508	1,6	1/16	–	–	–	●
CNGA160612T02020	CNGA543T0820	15,88	5/8	16,12	.635	1,2	3/64	–	–	–	●
CNGA190612T02020	CNGA643T0820	19,05	3/4	19,34	.762	1,2	3/64	–	–	–	●
CNGA190616T02020	CNGA644T0820	19,05	3/4	19,34	.762	1,6	1/16	–	–	–	●

NOTE: For toolholders and boring bars, see pages B58–B76.





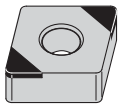
● first choice
○ alternate choice

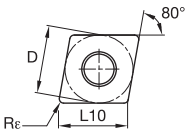
P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

CNGA-FWMT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CNGA120404S01015FWMT	CNGA431S0415FWMT	12,70	1/2	12,90	.508	0,4	1/64	●	●	–	–
CNGA120404S01025FWMT	CNGA431S0425FWMT	12,70	1/2	12,90	.508	0,4	1/64	–	–	●	–
CNGA120408S01015FWMT	CNGA432S0415FWMT	12,70	1/2	12,90	.508	0,8	1/32	●	●	–	–
CNGA120408S01025FWMT	CNGA432S0425FWMT	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	–
CNGA120408S01225FWMT	CNGA432S0525FWMT	12,70	1/2	12,90	.508	0,8	1/32	●	–	–	–
CNGA120412S01015FWMT	CNGA433S0415FWMT	12,70	1/2	12,90	.508	1,2	3/64	–	●	–	–
CNGA120412S01225FWMT	CNGA433S0525FWMT	12,70	1/2	12,90	.508	1,2	3/64	●	–	–	–

NOTE: For toolholders and boring bars, see pages B58–B76.

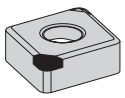


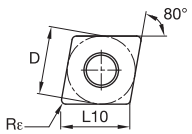


CNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CNGA120404S01015MT	CNGA431S0415MT	12,70	1/2	12,90	.508	0,4	1/64	●	●	–	–
CNGA120404S01025MT	CNGA431S0425MT	12,70	1/2	12,90	.508	0,4	1/64	–	–	●	–
CNGA120404S01225MT	CNGA431S0525MT	12,70	1/2	12,90	.508	0,4	1/64	–	●	–	–
CNGA120404S01735MT	CNGA431S0735MT	12,70	1/2	12,90	.508	0,4	1/64	–	●	–	–
CNGA120408S01015MT	CNGA432S0415MT	12,70	1/2	12,90	.508	0,8	1/32	●	●	–	–
CNGA120408S01025MT	CNGA432S0425MT	12,70	1/2	12,90	.508	0,8	1/32	–	–	●	–
CNGA120408S01225MT	CNGA432S0525MT	12,70	1/2	12,90	.508	0,8	1/32	●	●	–	–
CNGA120408S01735MT	CNGA432S0735MT	12,70	1/2	12,90	.508	0,8	1/32	●	●	–	–
CNGA120412S01015MT	CNGA433S0415MT	12,70	1/2	12,90	.508	1,2	3/64	●	●	–	–
CNGA120412S01020MT	CNGA433S0420MT	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–
CNGA120412S01025MT	CNGA433S0425MT	12,70	1/2	12,90	.508	1,2	3/64	–	–	●	–
CNGA120412S01225MT	CNGA433S0525MT	12,70	1/2	12,90	.508	1,2	3/64	●	●	–	–
CNGA120412S01735MT	CNGA433S0735MT	12,70	1/2	12,90	.508	1,2	3/64	●	●	–	–

NOTE: For toolholders and boring bars, see pages B58–B76.

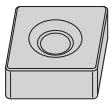


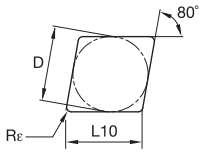


CNGM-CB1

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
CNGM120404S01325MTCB1	CNGM431S0525MTCB1	12,70	1/2	12,90	.508	0,4	1/64	–	●	–	–
CNGM120408S01325MTCB1	CNGM432S0525MTCB1	12,70	1/2	12,90	.508	0,8	1/32	–	●	–	–
CNGM120412S01325MTCB1	CNGM433S0525MTCB1	12,70	1/2	12,90	.508	1,2	3/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B58–B76.





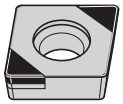
● first choice
○ alternate choice

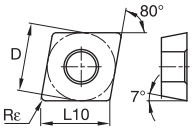
P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

CNGX

ISO catalog number	ANSI catalog number	D		L10		Rε		KBH10	KBH20	KB5630	KY1615
		mm	in	mm	in	mm	in				
CNGX120708T02020	**CNGX452T0820**	12,70	1/2	12,90	.508	0,8	1/32	–	–	–	●
CNGX120712T02020	**CNGX453T0820**	12,70	1/2	12,90	.508	1,2	3/64	–	–	–	●

NOTE: For toolholders and boring bars, see pages B58–B76.

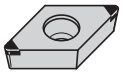


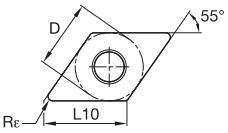


CPGW-MT

ISO catalog number	ANSI catalog number	D		L10		Rε		KBH10	KBH20	KB5630	KY1615
		mm	in	mm	in	mm	in				
CPGW09T304S01015MT	**CPGW3251S0415MT**	9,53	3/8	9,67	.381	0,4	1/64	–	–	●	–
CPGW09T308S01015MT	**CPGW3252S0415MT**	9,53	3/8	9,67	.381	0,8	1/32	–	–	●	–

NOTE: For toolholders and boring bars, see pages B209–B223.

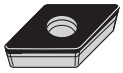


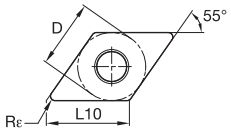


DCGM

ISO catalog number	ANSI catalog number	D		L10		Rε		KBH10	KBH20	KB5630	KY1615
		mm	in	mm	in	mm	in				
DCGM11T304S01325MTCB1	**DCGM3251S0525MTCB1**	9,53	3/8	11,63	.458	0,4	1/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B227–B230.





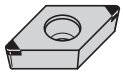
● first choice
○ alternate choice

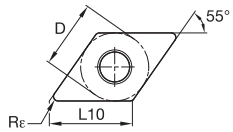
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

DCGW-C

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DCGW070202S01015C	DCGW21505S0415C	6,35	1/4	7,75	.305	0,2	.008	–	–	●	–
DCGW070204S01015C	DCGW2151S0415C	6,35	1/4	7,75	.305	0,4	1/64	–	–	●	–

NOTE: For toolholders and boring bars, see pages B227–B230.

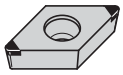


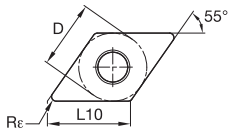


DCGW-FWMT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DCGW11T308S01015FWMT	DCGW3252S0415FWMT	9,53	3/8	11,63	.458	0,4	.016	●	●	–	–
DCGW11T308S01225FWMT	DCGW3252S0525FWMT	9,53	3/8	11,63	.458	0,4	1/64	●	–	–	–

NOTE: For toolholders and boring bars, see pages B227–B230.

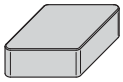


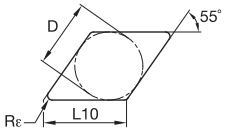


DCGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DCGW070202S01225MT	DCGW21505S0525MT	6,35	1/4	7,75	.305	0,2	.008	–	●	–	–
DCGW70202S01015MT	DCGW21505S0415MT	6,35	1/4	7,75	.305	0,4	.0156	●	–	–	–
DCGW70204S01015MT	DCGW2151S0415MT	6,35	1/4	7,75	.305	0,4	1/64	●	–	–	–
DCGW070204S01015MT	DCGW2151S0415MT	6,35	1/4	7,75	.305	0,4	1/64	–	●	–	–
DCGW70204S01225MT	DCGW2151S0525MT	6,35	1/4	7,75	.305	0,4	1/64	●	–	–	–
DCGW070204S01225MT	DCGW2151S0525MT	6,35	1/4	7,75	.305	0,4	1/64	–	●	–	–
DCGW11T302S01015MT	DCGW32505S0415MT	9,53	3/8	11,63	.458	0,2	.008	●	–	–	–
DCGW11T302S01225MT	DCGW32505S0525MT	9,53	3/8	11,63	.458	0,2	.008	–	●	–	–
DCGW11T304S01015MT	DCGW3251S0415MT	9,53	3/8	11,63	.458	0,4	1/64	●	●	●	–
DCGW11T304S01225MT	DCGW3251S0525MT	9,53	3/8	11,63	.458	0,4	1/64	●	●	–	–
DCGW11T308S01015MT	DCGW3252S0415MT	9,53	3/8	11,63	.458	0,8	1/32	●	●	●	–
DCGW11T308S01225MT	DCGW3252S0525MT	9,53	3/8	11,63	.458	0,8	1/32	●	●	–	–

NOTE: For toolholders and boring bars, see pages B227–B230.



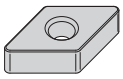


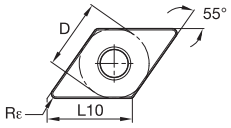
● first choice
○ alternate choice

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

DNGN/DNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DNGN150704T02020	**DNG451T0820**	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	●
DNGN150708T02020	**DNG452T0820**	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●
DNGN150712T02020	**DNG453T0820**	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	●
DNGN150716T02020	**DNG454T0820**	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	●

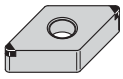


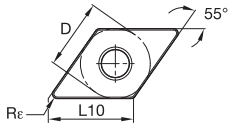


DNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DNGA150404T02020	**DNGA431T0820**	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	●
DNGA150604T02020	**DNGA441T0820**	12,70	1/2	15,50	.610	0,4	1/64	–	–	–	●
DNGA150408T02020	**DNGA432T0820**	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●
DNGA150608T02020	**DNGA442T0820**	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●
DNGA150412T02020	**DNGA433T0820**	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	●
DNGA150612T02020	**DNGA443T0820**	12,70	1/2	15,50	.610	1,2	3/64	–	–	–	●
DNGA150416T02020	**DNGA434T0820**	12,70	1/2	15,50	.610	1,6	1/16	–	–	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.

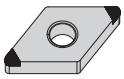


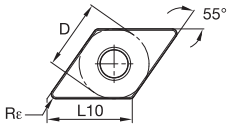


DNGA-FWMT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DNGA150408S01015FWMT	**DNGA432S0415FWMT**	12,70	1/2	15,50	.610	0,4	1/64	●	●	–	–
DNGA150408S01225FWMT	**DNGA432S0525FWMT**	12,70	1/2	15,50	.610	0,4	1/32	●	–	–	–
DNGA150412S01015FWMT	**DNGA433S0415FWMT**	12,70	1/2	15,50	.610	0,8	1/32	–	●	–	–
DNGA150412S01225FWMT	**DNGA433S0525FWMT**	12,70	1/2	15,50	.610	0,8	3/64	●	–	–	–

NOTE: For toolholders and boring bars, see pages B87–B96.





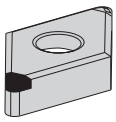
● first choice
○ alternate choice

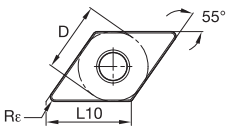
P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

DNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DNGA150404S01015MT	**DNGA431S0415MT**	12,70	1/2	15,50	.610	0,4	1/64	●	●	–	–
DNGA150404S01025MT	**DNGA431S0425MT**	12,70	1/2	15,50	.610	0,4	1/64	–	–	●	–
DNGA150404S01225MT	**DNGA431S0525MT**	12,70	1/2	15,50	.610	0,4	1/64	–	●	–	–
DNGA150404S01735MT	**DNGA431S0735MT**	12,70	1/2	15,50	.610	0,4	1/64	–	●	–	–
DNGA150604S01015MT	**DNGA441S0415MT**	12,70	1/2	15,50	.610	0,4	1/64	●	●	–	–
DNGA150604S01225MT	**DNGA441S0525MT**	12,70	1/2	15,50	.610	0,4	1/64	–	●	–	–
DNGA150604S01735MT	**DNGA441S0735MT**	12,70	1/2	15,50	.610	0,4	1/64	–	●	–	–
DNGA150408S01735MT	**DNGA432S0735MT**	12,70	1/2	15,50	.610	0,8	1/32	●	●	–	–
DNGA150408S01015MT	**DNGA432S0415MT**	12,70	1/2	15,50	.610	0,8	1/32	●	●	–	–
DNGA150408S01025MT	**DNGA432S0425MT**	12,70	1/2	15,50	.610	0,8	1/32	–	–	●	–
DNGA150408S01225MT	**DNGA432S0525MT**	12,70	1/2	15,50	.610	0,8	1/32	●	●	–	–
DNGA150608S01015MT	**DNGA442S0415MT**	12,70	1/2	15,50	.610	0,8	1/32	●	●	–	–
DNGA150608S01225MT	**DNGA442S0525MT**	12,70	1/2	15,50	.610	0,8	1/32	●	●	–	–
DNGA150608S01735MT	**DNGA442S0735MT**	12,70	1/2	15,50	.610	0,8	1/32	–	●	–	–
DNGA150412S01015MT	**DNGA433S0415MT**	12,70	1/2	15,50	.610	1,2	3/64	●	●	–	–
DNGA150412S01225MT	**DNGA433S0525MT**	12,70	1/2	15,50	.610	1,2	3/64	●	●	–	–
DNGA150412S01735MT	**DNGA433S0735MT**	12,70	1/2	15,50	.610	1,2	3/64	●	●	–	–
DNGA150612S01015MT	**DNGA443S0415MT**	12,70	1/2	15,50	.610	1,2	3/64	●	●	–	–
DNGA150612S01225MT	**DNGA443S0525MT**	12,70	1/2	15,50	.610	1,2	3/64	●	●	–	–
DNGA150612S01735MT	**DNGA443S0735MT**	12,70	1/2	15,50	.610	1,2	3/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B87–B96.





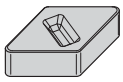
DNGM-CB1

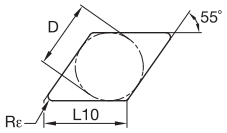
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
DNGM150408S01325MTCB1	**DNGM432S0525MTCB1**	12,70	1/2	15,50	.610	0,8	1/32	–	●	–	–
DNGM150412S01325MTCB1	**DNGM433S0525MTCB1**	12,70	1/2	15,50	.610	1,2	3/64	–	●	–	–
DNGM150608S01325MTCB1	**DNGM442S0525MTCB1**	12,70	1/2	15,50	.610	0,8	1/32	–	●	–	–
DNGM150612S01325MTCB1	**DNGM443S0525MTCB1**	12,70	1/2	15,50	.610	1,2	3/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B87–B96.

● first choice
○ alternate choice

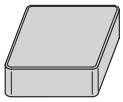
P				●	
M					
K				●	
N					
S				●	
H	●	●	●	●	●

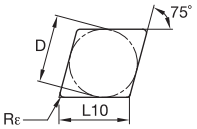




DNGX

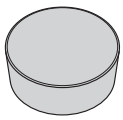
ISO catalog number	ANSI catalog number	D		L10		Rε		KBH10	KBH20	KB5630	KY1615
		mm	in	mm	in	mm	in				
DNGX150708T02020	DNGX452T0820	12,70	1/2	15,50	.610	0,8	1/32	–	–	–	●

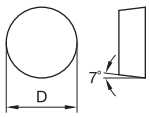




ENGN/ENG

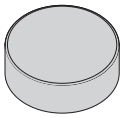
ISO catalog number	ANSI catalog number	D		L10		Rε		KBH10	KBH20	KB5630	KY1615
		mm	in	mm	in	mm	in				
ENGN130704T02020	ENG451T0820	12,70	1/2	13,15	.518	0,4	1/64	–	–	–	●
ENGN130708T02020	ENG452T0820	12,70	1/2	13,15	.518	0,8	1/32	–	–	–	●
ENGN130712T02020	ENG453T0820	12,70	1/2	13,15	.518	1,2	3/64	–	–	–	●
ENGN130716T02020	ENG454T0820	12,70	1/2	13,15	.518	1,6	1/16	–	–	–	●

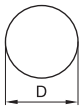




RCGX/RCGV

ISO catalog number	ANSI catalog number	D		L10		Rε		KBH10	KBH20	KB5630	KY1615
		mm	in	mm	in	mm	in				
RCGX090700T01020	RCGV35T0420	9,53	3/8	–	–	–	–	–	–	–	●
RCGX090700T02020	RCGV35T0820	9,53	3/8	–	–	–	–	–	–	–	●
RCGX090700T10015	RCGV35T4015	9,53	3/8	–	–	–	–	–	–	–	●
RCGX090700T20015	RCGV35T8015	9,53	3/8	–	–	–	–	–	–	–	●
RCGX120700T02020	RCGV45T0820	12,70	1/2	–	–	–	–	–	–	–	●
RCGX120700T10015	RCGV45T4015	12,70	1/2	–	–	–	–	–	–	–	●
RCGX120700T20015	RCGV45T8015	12,70	1/2	–	–	–	–	–	–	–	●
RCGX151000T20015	RCGX151000T20015	15,88	5/8	–	–	–	–	–	–	–	●
RCGX191000T20015	RCGX191000T20015	19,05	3/4	–	–	–	–	–	–	–	●
RCGX251200T20015	RCGV88T8015	25,40	1	–	–	–	–	–	–	–	●



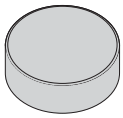


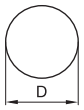
● first choice
○ alternate choice

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

RCGW-T

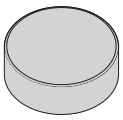
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
RCGW1204M0T01020	RCGW1204M0T01020	12,00	—	—	—	—	—	–	–	–	●

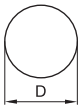




RCGX

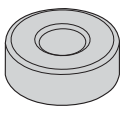
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
RCGX0907-001	RCGX0907-001	9,53	3/8	—	—	—	—	–	–	–	●

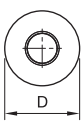




RNGN/RNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
RNGN090300T02020	RNG32T0820	9,53	3/8	—	—	—	—	–	–	–	●
RNGN090400T02020	RNG33T0820	9,53	3/8	—	—	—	—	–	–	–	●
RNGN120300T02020	RNG42T0820	12,70	1/2	—	—	—	—	–	–	–	●
RNGN120400T02020	RNG43T0820	12,70	1/2	—	—	—	—	–	–	–	●
RNGN120700T02020	RNG45T0820	12,70	1/2	—	—	—	—	–	–	–	●
RNGN120700T10015	RNG45T4015	12,70	1/2	—	—	—	—	–	–	–	●
RNGN120700T20015	RNG45T8015	12,70	1/2	—	—	—	—	–	–	–	●
RNGN190700T02020	RNG65T0820	19,05	3/4	—	—	—	—	–	–	–	●

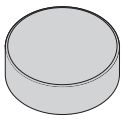


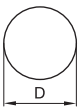


RNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
RNGA090300T02020	RNGA32T0820	9,53	3/8	—	—	—	—	–	–	–	●
RNGA120400T02020	RNGA43T0820	12,70	1/2	—	—	—	—	–	–	–	●

NOTE: For toolholders and boring bars, see pages B98–B99.



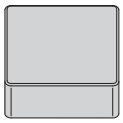


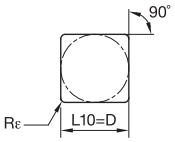
● first choice
○ alternate choice

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

RNGN-C/RNG-C

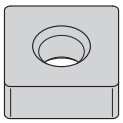
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
RNGN090300S02015C	RNG32S0815C	9,53	3/8	—	—	—	—	–	–	●	–

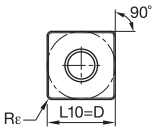




SNGN/SNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
SNGN090308T02020	SNG322T0820	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	●
SNGN120704T02020	SNG451T0820	12,70	1/2	12,70	.500	0,4	1/64	–	–	–	●
SNGN120408T00520	SNG432T0220	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●
SNGN120408T02020	SNG432T0820	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●
SNGN120708T02020	SNG452T0820	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●
SNGN120412T02020	SNG433T0820	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●
SNGN120712T02020	SNG453T0820	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●
SNGN120416T02020	SNG434T0820	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	●
SNGN120716T02020	SNG454T0820	12,70	1/2	12,70	.500	1,6	1/16	–	–	–	●
SNGN120720T02020	SNG455T0820	12,70	1/2	12,70	.500	2,0	5/64	–	–	–	●
SNGN120720T10015	SNG455T4015	12,70	1/2	12,70	.500	2,0	5/64	–	–	–	●
SNGN120720T20015	SNG455T8015	12,70	1/2	12,70	.500	2,0	5/64	–	–	–	●
SNGN150716T02020	SNG554T0820	15,88	5/8	15,88	.625	1,6	1/16	–	–	–	●

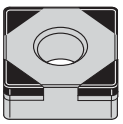


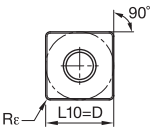


SNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
SNGA120408T02020	SNGA432T0820	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●
SNGA120412T02020	SNGA433T0820	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●

NOTE: For toolholders and boring bars, see pages B109–B120.

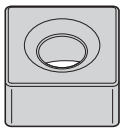


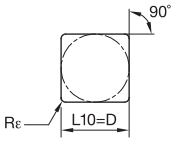


SNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
SNGA120408S01015MT	SNGA432S0415MT	12,70	1/2	12,70	.500	0,8	1/32	●	–	–	–
SNGA120408S01225MT	SNGA432S0525MT	12,70	1/2	12,70	.500	0,8	1/32	●	●	–	–
SNGA120412S01225MT	SNGA433S0525MT	12,70	1/2	12,70	.500	1,2	3/64	●	●	–	–

NOTE: For toolholders and boring bars, see pages B109–B120.





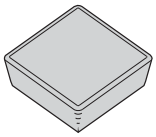
● first choice
○ alternate choice

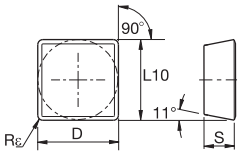
P				●	
M					
K				●	
N					
S				●	
H	●	●	●	●	

SNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
SNGX120712T02020	SNGX453T0820	12,70	1/2	12,70	.500	1,2	3/64	–	–	–	●

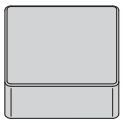
NOTE: For toolholders and boring bars, see pages B109–B120.

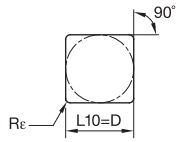




SPG-T

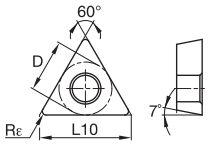
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
SPGN090308T01020	SPG322T0420	9,53	3/8	9,53	.375	0,8	1/32	–	–	–	●
SPGN120308T01020	SPG422T0420	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●





SPU-T

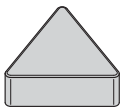
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
SPUN120308T00520	SPU422T0220	12,70	1/2	12,70	.500	0,8	1/32	–	–	–	●

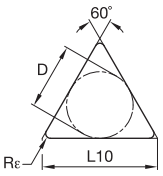


TCGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TCGW090202S01015MT	TCGW181505S0415MT	5,56	7/32	9,62	.379	0,2	.008	–	●	–	–
TCGW090204S01015 MT	TCGW18151S0415MT	5,56	7/32	9,62	.379	0,4	1/64	–	●	–	–
TCGW110202S01015MT	TCGW21505S0415MT	6,35	1/4	11,00	.433	0,2	.008	●	●	–	–
TCGW110204S01015MT	TCGW2151S0415MT	6,35	1/4	11,00	.433	0,4	1/64	●	●	–	–
TCGW110204S01225MT	TCGW2151S0525MT	6,35	1/4	11,00	.433	0,4	1/64	●	–	–	–
TCGW110208S01015MT	TCGW2152S0415MT	6,35	1/4	11,00	.433	0,8	1/32	●	●	–	–
TCGW110208S01225MT	TCGW2152S0525MT	6,35	1/4	11,00	.433	0,8	1/32	●	–	–	–

NOTE: For toolholders and boring bars, see pages B259–B262.



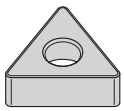


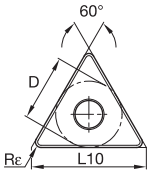
● first choice
○ alternate choice

P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

TNGN/TNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TNGN110308T02020	TNG222T0820	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	●
TNGN160404T02020	TNG331T0820	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	●
TNGN160408T02020	TNG332T0820	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●
TNGN160708T02020	TNG352T0820	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●
TNGN160412T02020	TNG333T0820	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	●
TNGN160712T02020	TNG353T0820	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	●
TNGN160416T02020	TNG334T0820	9,53	3/8	16,50	.650	1,6	1/16	–	–	–	●
TNGN220408T02020	TNG432T0820	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	●

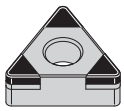


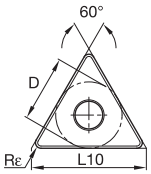


TNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TNGA160408T02020	TNGA332T0820	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●
TNGA160412T02020	TNGA333T0820	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	●
TNGA220408T02020	TNGA432T0820	12,70	1/2	22,00	.866	0,8	1/32	–	–	–	●
TNGA220412T02020	TNGA433T0820	12,70	1/2	22,00	.866	1,2	3/64	–	–	–	●

NOTE: For toolholders and boring bars, see pages B131–B143.

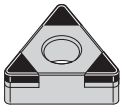


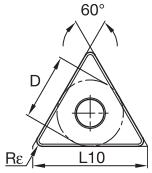


TNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TNGA160404S01015MT	TNGA331S0415MT	9,53	3/8	16,50	.650	0,4	1/64	●	●	–	–
TNGA160404S01225MT	TNGA331S0525MT	9,53	3/8	16,50	.650	0,4	1/64	–	●	–	–
TNGA160404S01735MT	TNGA331S0735MT	9,53	3/8	16,50	.650	0,4	1/64	–	●	–	–
TNGA160408S01015MT	TNGA332S0415MT	9,53	3/8	16,50	.650	0,8	1/32	●	●	–	–
TNGA160408S01225MT	TNGA332S0525MT	9,53	3/8	16,50	.650	0,8	1/32	●	●	–	–
TNGA160408S01735MT	TNGA332S0735MT	9,53	3/8	16,50	.650	0,8	1/32	●	●	–	–
TNGA160412S01015MT	TNGA333S0415MT	9,53	3/8	16,50	.650	1,2	3/64	●	●	–	–
TNGA160412S01225MT	TNGA333S0525MT	9,53	3/8	16,50	.650	1,2	3/64	●	●	–	–
TNGA160412S01735MT	TNGA333S0735MT	9,53	3/8	16,50	.650	1,2	3/64	●	●	–	–

NOTE: For toolholders and boring bars, see pages B131–B143.





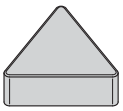
● first choice
○ alternate choice

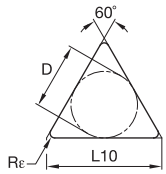
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

TNGM • Medium Machining

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TNGM160408S01325MTCB1	**TNGM332S0525MTCB1**	9,53	3/8	16,50	.650	0,8	1/32	–	●	–	–

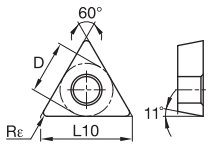
NOTE: For toolholders and boring bars, see pages B131–B143.





TPGN/TPG

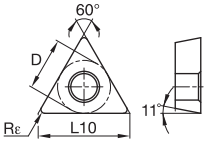
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TPGN110304T01020	**TPG221T0420**	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	●
TPGN110308T01020	**TPG222T0420**	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	●
TPGN110312T01020	**TPG223T0420**	6,35	1/4	11,00	.433	1,2	3/64	–	–	–	●
TPGN160304T00520	**TPG321T0220**	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	●
TPGN160304T01020	**TPG321T0420**	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	●
TPGN160308T00520	**TPG322T0220**	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●
TPGN160308T01020	**TPG322T0420**	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●
TPGN160312T01020	**TPG323T0420**	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	●



TPGW-C

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TPGW110208S01015C	**TPGW2152S0415C**	6,35	1/4	11,00	.433	0,8	1/32	–	–	●	–

NOTE: For toolholders and boring bars, see pages B270–B279.



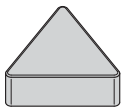
● first choice
○ alternate choice

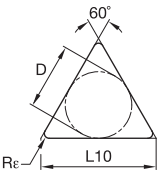
P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

TPGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TPGW110308S01225MT	TPGW222S0525MT	6,35	1/4	10,96	.432	0,8	1/32	●	–	–	–
TPGW110202S01015MT	TPGW21505S0415MT	6,35	1/4	11,00	.433	0,2	.008	–	●	–	–
TPGW110304S01015MT	TPGW221S0415MT	6,35	1/4	11,00	.433	0,4	1/64	●	–	–	–
TPGW110304S01225MT	TPGW221S0525MT	6,35	1/4	11,00	.433	0,4	1/64	●	–	–	–
TPGW110204S01015MT	TPGW2151S0415MT	6,35	1/4	11,00	.433	0,4	1/64	–	●	–	–
TPGW110208S01015MT	TPGW2152S0415MT	6,35	1/4	11,00	.433	0,8	1/32	–	●	–	–
TPGW16T304S01015MT	TPGW3251S0415MT	9,53	3/8	16,50	.650	0,4	1/64	–	●	–	–
TPGW160404S01015MT	TPGW331S0415MT	9,53	3/8	16,50	.650	0,4	1/64	●	–	–	–
TPGW160404S01225MT	TPGW331S0525MT	9,53	3/8	16,50	.650	0,4	1/64	●	–	–	–
TPGW16T308S01015MT	TPGW3252S0415MT	9,53	3/8	16,50	.650	0,8	1/32	–	●	–	–
TPGW16T308S01225MT	TPGW3252S0525MT	9,53	3/8	16,50	.650	0,8	1/32	–	●	–	–
TPGW160408S01015MT	TPGW332S0415MT	9,53	3/8	16,50	.650	0,8	1/32	●	–	–	–
TPGW160408S01225MT	TPGW332S0525MT	9,53	3/8	16,50	.650	0,8	1/32	●	–	–	–

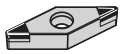
NOTE: For toolholders and boring bars, see pages B270–B279.

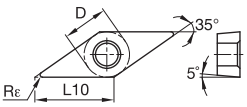




TPU-T

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
TPUN110304T00520	TPU221T0220	6,35	1/4	11,00	.433	0,4	1/64	–	–	–	●
TPUN110308T00520	TPU222T0220	6,35	1/4	11,00	.433	0,8	1/32	–	–	–	●
TPUN160304T00520	TPU321T0220	9,53	3/8	16,50	.650	0,4	1/64	–	–	–	●
TPUN160308T00520	TPU322T0220	9,53	3/8	16,50	.650	0,8	1/32	–	–	–	●
TPUN160312T00520	TPU323T0220	9,53	3/8	16,50	.650	1,2	3/64	–	–	–	●

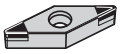


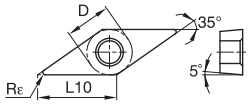


VBGW-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
VBGW110304S01015MT	VBGW221S0415MT	6,35	1/4	11,07	.436	0,4	1/64	●	●	–	–
VBGW110304S01225MT	VBGW221S0525MT	6,35	1/4	11,07	.436	0,4	1/64	–	●	–	–
VBGW110308S01015MT	VBGW222S0415MT	6,35	1/4	11,07	.436	0,8	1/32	●	–	–	–
VBGW110308S01225MT	VBGW222S0525MT	6,35	1/4	11,07	.436	0,8	1/32	–	●	–	–
VBGW160404S01015MT	VBGW331S0415MT	9,53	3/8	16,61	.654	0,4	1/64	●	–	●	–
VBGW160408S01015MT	VBGW332S0415MT	9,53	3/8	16,61	.654	0,8	1/32	●	●	●	–
VBGW160412S01015MT	VBGW333S0415MT	9,53	3/8	16,61	.654	1,2	3/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B282–B285.





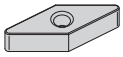
● first choice
○ alternate choice

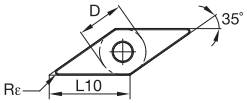
P				●
M				
K				●
N				
S				●
H	●	●	●	●

VCGW • Light Machining

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
VCGW160404S01015MT	VCGW331S0415MT	9,53	3/8	16,61	.654	0,4	1/64	–	●	–	–
VCGW160404S01225MT	VCGW331S0525MT	9,53	3/8	16,61	.654	0,4	1/64	–	●	–	–
VCGW160408S01015MT	VCGW332S0415MT	9,53	3/8	16,61	.654	0,8	1/32	–	●	–	–
VCGW160408S01225MT	VCGW332S0525MT	9,53	3/8	16,61	.654	0,8	1/32	–	●	–	–

NOTE: For toolholders and boring bars, see pages B270–B279.

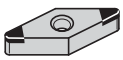


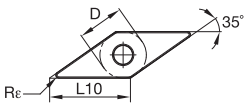


VNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
VNGA160404T02020	VNGA331T0820	9,53	3/8	16,61	.654	0,4	1/64	–	–	–	●
VNGA160408T02020	VNGA332T0820	9,53	3/8	16,61	.654	0,8	1/32	–	–	–	●
VNGA160412T02020	VNGA333T0820	9,53	3/8	16,61	.654	1,2	3/64	–	–	–	●
VNGA220408T02020	VNGA432T0820	12,70	1/2	22,14	.872	0,8	1/32	–	–	–	●

NOTE: For toolholders and boring bars, see pages B150–B155.

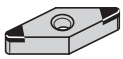


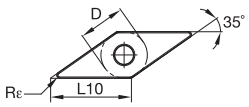


VNGA-MT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
VNGA160404S01015MT	VNGA331S0415MT	9,53	3/8	16,61	.654	0,4	1/64	●	●	–	–
VNGA160404S01025MT	VNGA331S0425MT	9,53	3/8	16,61	.654	0,4	1/64	–	–	●	–
VNGA160404S01225MT	VNGA331S0525MT	9,53	3/8	16,61	.654	0,4	1/64	●	●	–	–
VNGA160404S01735MT	VNGA331S0735MT	9,53	3/8	16,61	.654	0,4	1/64	–	●	–	–
VNGA160408S01015MT	VNGA332S0415MT	9,53	3/8	16,61	.654	0,8	1/32	●	●	–	–
VNGA160408S01025MT	VNGA332S0425MT	9,53	3/8	16,61	.654	0,8	1/32	–	–	●	–
VNGA160408S01225MT	VNGA332S0525MT	9,53	3/8	16,61	.654	0,8	1/32	●	●	–	–
VNGA160408S01735MT	VNGA332S0735MT	9,53	3/8	16,61	.654	0,8	1/32	–	●	–	–
VNGA160412S01225MT	VNGA333S0525MT	9,53	3/8	16,61	.654	1,2	3/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B150–B155.





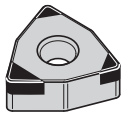
VNGM

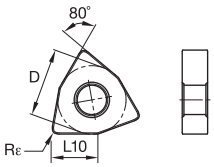
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
VNGM160408S01325MTCB1	VNGM332S0525MTCB1	9,53	3/8	16,61	.654	0,8	1/32	–	●	–	–
VNGM160412S01325MTCB1	VNGM333S0525MTCB1	9,53	3/8	16,61	.654	1,2	3/64	–	●	–	–

NOTE: For toolholders and boring bars, see pages B150–B155.

● first choice
○ alternate choice

P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

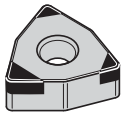


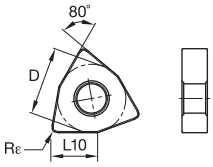


WNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
WNGA080408S01015FWMT	WNGA432S0415FWMT	12,70	1/2	8,69	.342	0,8	1/32	–	●	–	–

NOTE: For toolholders and boring bars, see page B163.

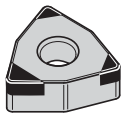


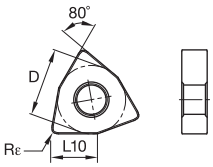


WNGA-FWMT

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
WNGA080408S01015FWHBMT	WNGA432S0415FWHBMT	12,70	1/2	8,69	.342	0,8	1/32	–	●	–	–

NOTE: For toolholders and boring bars, see page B163.





WNGA-MT

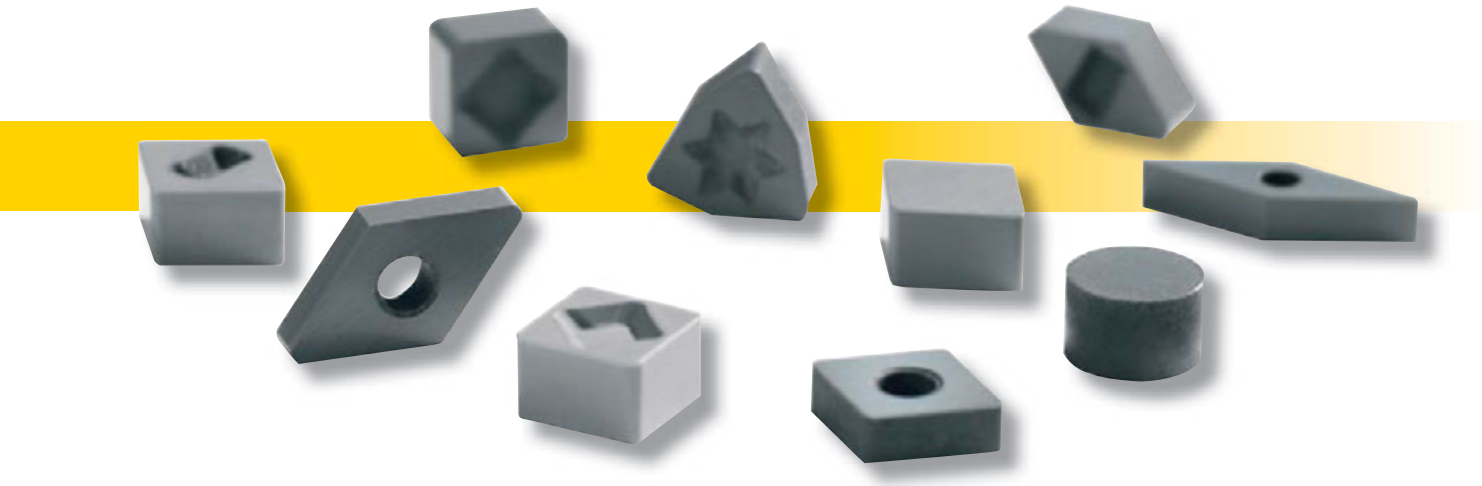
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KBH10	KBH20	KB5630	KY1615
WNGA080404S01015MT	WNGA431S0415MT	12,70	1/2	8,69	.342	0,4	1/64	–	●	–	–
WNGA80408S01015MT	WNGA432S0415MT	12,70	1/2	8,69	.342	0,8	1/32	●	–	–	–
WNGA080408S01015MT	WNGA432S0415MT	12,70	1/2	8,69	.342	0,8	1/32	–	●	–	–
WNGA80408S01225MT	WNGA432S0525MT	12,70	1/2	8,69	.342	0,8	1/32	●	–	–	–
WNGA080408S01225MT	WNGA432S0525MT	12,70	1/2	8,69	.342	0,8	1/32	–	●	–	–
WNGA080408S01735MT	WNGA432S0735MT	12,70	1/2	8,69	.342	0,8	1/32	–	●	–	–

NOTE: For toolholders and boring bars, see page B163.

Machining High-Temp Alloys with **Ceramics** and **PcBN**

Kennametal advanced materials, utilizing Beyond™ technology, offer greater wear resistance and toughness, depending on the job.

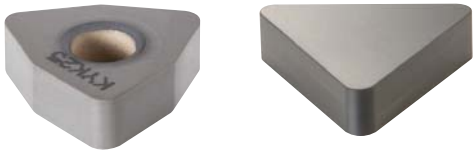
KYS ceramic inserts are the first choice for high-speed applications in high-temp alloys. The multilayer coating offers enhanced chemical wear resistance versus uncoated grades. A superior SiAlON ceramic substrate provides excellent depth of cut notching resistance versus whisker-reinforced ceramics.



Ceramic Inserts

KYS25™ Grade

- Excellent surface finish, lower cutting forces, and higher speeds.
- Advanced CVD coating provides excellent chemical and depth-of-cut notch resistance.



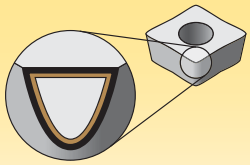
KYS30™ Grade

- Long, consistent tool life.
- Excellent toughness and depth-of-cut notch resistance.
- Performs in a wide variety of machining conditions, including interrupted cuts and applications involving scale.

Tipped PcBN Inserts

KB1630 Grade

- Long, consistent tool life.
- Excellent toughness and depth-of-cut notch resistance.
- Performs in a wide variety of machining conditions, including interrupted cuts and applications involving scale.



Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

	Coating	Grade Description		05	10	15	20	25	30	35	40	45
Ceramic Grades	KYS25	**Composition:** SiAlON ceramic with a multilayered alumina-TiCN CVD coating. **Application:** Complements the KYS30™ grade when machining high-temp and nickel-based alloys and cast materials with high Brinell hardness. This advanced CVD coating provides excellent chemical and depth-of-cut notch resistance compared to whisker ceramics.	S									
			H									
	KYS30	**Composition:** Latest and most advanced SiAlON material developed. **Application:** Combines excellent wear properties, fracture toughness, and thermal shock resistance for general-purpose to finish machining of high-temp alloys. Provides superior depth-of-cut notch resistance compared to whisker ceramics.	S									
PcBN – Polycrystalline Cubic Boron Nitride Grades	KB1630	**Composition:** An uncoated high content PcBN grade. PcBN tips are brazed onto a carbide insert. **Application:** Designed for roughing to finishing in interrupted cuts on hardened steels (>45 HRC). It can also be applied on gray cast iron, chilled irons, high chrome alloyed steels, high temp alloys and sintered powder metals. The tipped PcBN inserts are available in a wide range of insert styles, including Top Notch™ and Screw-On geometries.	K									
			S									
			H									

NOVO KNOWS SEARCH

Searching for a tool has been enhanced by Advise and Select functions from NOVO™ applications — saving you time and money.

ADVISE

Uses a rules-based approach to provide cutting tool recommendations:

- Define Machining Feature (face milling, slotting, blind hole, etc.)
- Apply Constraint Requirements (geometric, material, tolerance, etc.)
- Set Machining Sequence (single or multi-step operations, rough then finish, etc.)
- Receive Ranked Results

SELECT

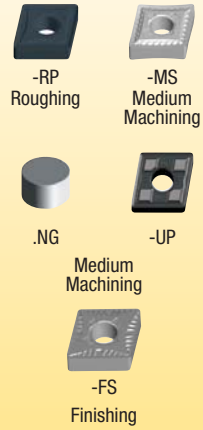
A method of selecting cutting tools from a tree structure via a hierarchy or parametric search:

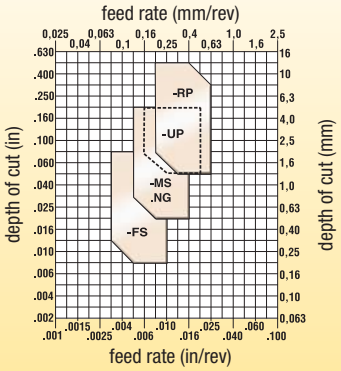
- If you know which product you are looking for, a quick search can be performed by just the catalog number or product description.
- Smart filters significantly reduce the amount of potential tooling solutions.
- After the tool is selected, NOVO also provides cutting and adaptive item options that fit with your solution.

NOVO applications can ensure you have the right tools on your machines, in the right sequence. Resulting in flawless execution that accelerates every job, and maximizes every shift. **kennametal.com/novo**

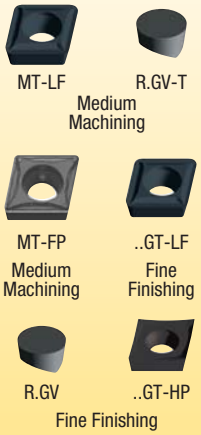
Step 1 • Select the insert geometry

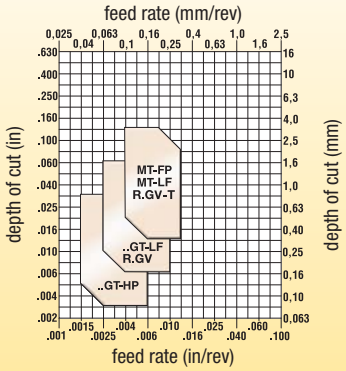
Negative Inserts





Positive Inserts





Step 2 • Select the grade

cutting condition	Negative Insert Geometry .NG
heavily interrupted cut	–
lightly interrupted cut	KYS30/KY1540
varying depth of cut, casting, or forging skin	KYS30/KY1540/KYS25/KY4300
smooth cut, pre-turned surface	KYS25/KY4300

cutting condition	Positive Insert Geometry R.GV-T
heavily interrupted cut	–
lightly interrupted cut	KYS30/KY1540
varying depth of cut, casting, or forging skin	KYS30/KY1540/KYS25/KY4300
smooth cut, pre-turned surface	KYS25/KY4300

Step 3 • Select the cutting speed

Iron-Based, Heat-Resistant Alloys (135–320 HB) (≤34 HRC) — speed — m/min (SFM) — Starting Conditions ◁▷

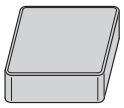
material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S1	KB1630									◁▷					260	850
	KYS25/KY4300								◁▷						200	650
	KYS30/KY1540							◁▷							170	550

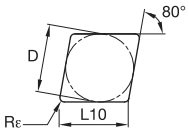
Cobalt-Based, Heat-Resistant Alloys (150–425 HB) (≤45 HRC) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S2	KB1630									◁▷					260	850
	KYS25/KY4300								◁▷						220	720
	KYS30/KY1540							◁▷							185	600

Nickel-Based, Heat-Resistant Alloys (140–475 HB) (≤48 HRC) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S3	KB1630									◁▷					260	850
	KYS25/KY4300									◁▷					250	820
	KYS30/KY1540							◁▷							215	700





● first choice
○ alternate choice

P			
M			
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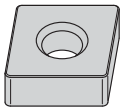
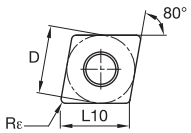
S	●	●	○
H	○		●

CNGN/CNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
CNGN120416T01020	CNG434T0420	12,70	1/2	12,90	.508	1,6	1/16	●	–	–
CNGN120712T01020	CNG453T0420	12,70	1/2	12,90	.508	1,2	3/64	●	●	–
CNGN120716T01020	CNG454T0420	12,70	1/2	12,90	.508	1,6	1/16	–	●	–

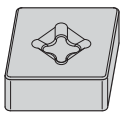


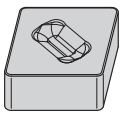


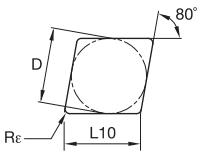
CNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
CNGA120408E	CNGA432E	12,70	1/2	12,90	.508	0,8	1/32	●	●	–
CNGA120408T01020	CNGA432T0420	12,70	1/2	12,90	.508	0,8	1/32	●	●	–
CNGA120412T01020	CNGA433T0420	12,70	1/2	12,90	.508	1,2	3/64	●	●	–

NOTE: For toolholders and boring bars, see pages B58–B76.

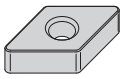


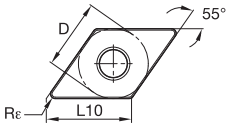




CNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
CNGX120708T01020	CNGX452T0420	12,70	1/2	12,90	.508	0,8	1/32	●	●	–
CNGX120712T01020	CNGX453T0420	12,70	1/2	12,90	.508	1,2	3/64	●	●	–
CNGX120716E	CNGX454E	12,70	1/2	12,90	.508	1,6	1/16	–	●	–





● first choice
○ alternate choice

P			
M			
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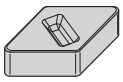
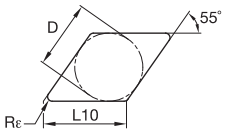
S	●	●	○
H	○		●

DNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
DNGA150408T01020	DNGA432T0420	12,70	1/2	15,50	.610	0,8	1/32	–	●	–
DNGA150412T01020	DNGA433T0420	12,70	1/2	15,50	.610	1,2	3/64	–	●	–

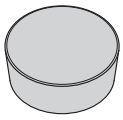
NOTE: For toolholders and boring bars, see pages B87–B96.

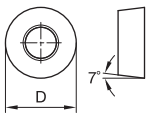




DNGX

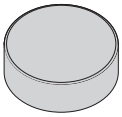
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
DNGX150708T01020	DNGX452T0420	12,70	1/2	15,50	.610	0,8	1/32	●	–	–
DNGX150712T01020	DNGX453T0420	12,70	1/2	15,50	.610	1,2	3/64	●	●	–
DNGX150716T01020	DNGX454T0420	12,70	1/2	15,50	.610	1,6	1/16	–	●	–

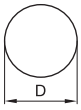




RCGX/RCGV

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
RCGX060400E	RCGV23E	6,35	1/4	–	–	–	–	●	●	–
RCGX090700E	RCGV35E	9,53	3/8	–	–	–	–	●	●	–
RCGX090700T00525	RCGV35T0225	9,53	3/8	–	–	–	–	–	●	–
RCGX090700T01020	RCGV35T0420	9,53	3/8	–	–	–	–	●	●	–
RCGX120700E	RCGV45E	12,70	1/2	–	–	–	–	●	●	–
RCGX120700T01020	RCGV45T0420	12,70	1/2	–	–	–	–	●	●	–
RCGX120700T01025	RCGV45T0425	12,70	1/2	–	–	–	–	●	●	–





● first choice
○ alternate choice

P			
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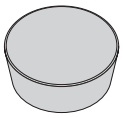
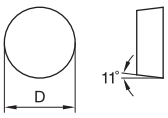
RNGN/RNG

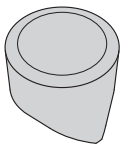
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KY525	KY530	KB1630
RNGN120400T01020	RNG43T0420	12,70	1/2	–	–	–	–	–	●	–
RNGN120700T00525	RNG45T0225	12,70	1/2	–	–	–	–	–	●	–
RNGN120700T01020	RNG45T0420	12,70	1/2	–	–	–	–	–	●	–
RNGN120700T01025	RNG45T0425	12,70	1/2	–	–	–	–	●	●	–
RNGN190700T01020	RNG65T0420	19,05	3/4	–	–	–	–	–	●	–

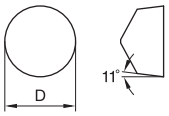




RPGN/RPG

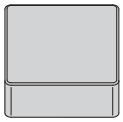
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KY525	KY530	KB1630
RPGN060200E	RPG2150E	6,35	1/4	–	–	–	–	–	●	–
RPGN090300E	RPG32E	9,53	3/8	–	–	–	–	–	●	–
RPGN090300T01020	RPG32T0420	9,53	3/8	–	–	–	–	–	●	–
RPGN120400E	RPG43E	12,70	1/2	–	–	–	–	–	●	–
RPGN120400T01020	RPG43T0420	12,70	1/2	–	–	–	–	–	●	–

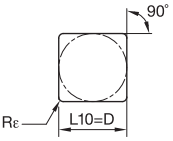




RPGX/RPGV

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KY525	KY530	KB1630
RPGX090700E	RPGV35E	9,53	3/8	–	–	–	–	●	●	–
RPGX090700T01020	RPGV35T0420	9,53	3/8	–	–	–	–	–	●	–
RPGX120700E	RPGV45E	12,70	1/2	–	–	–	–	●	●	–
RPGX120700T01020	RPGV45T0420	12,70	1/2	–	–	–	–	–	●	–





● first choice
○ alternate choice

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S	●	●	○
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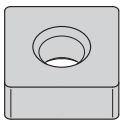
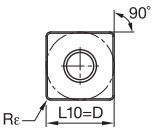
SNGN/SNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
SNGN120408T01020	SNG432T0420	12,70	1/2	12,70	.500	0,8	1/32	–	●	–
SNGN120412T01020	SNG433T0420	12,70	1/2	12,70	.500	1,2	3/64	–	●	–
SNGN120416T01020	SNG434T0420	12,70	1/2	12,70	.500	1,6	1/16	●	●	–
SNGN120716T01020	SNG454T0420	12,70	1/2	12,70	.500	1,6	1/16	–	●	–
SNGN190616E	SNG644E	19,05	3/4	19,05	.750	1,6	1/16	●	–	–
SNGN190616T01020	SNG644T0420	19,05	3/4	19,05	.750	1,6	1/16	–	●	–
SNGN190724E	SNG656E	19,05	3/4	19,05	.750	2,4	3/32	–	●	–

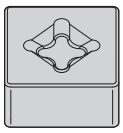


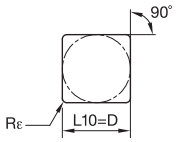


SNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
SNGA120412T01020	SNGA433T0420	12,70	1/2	12,70	.500	1,2	3/64	●	●	–

NOTE: For toolholders and boring bars, see pages B109–B120.





SNGX

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
SNGX120712T01020	SNGX453T0420	12,70	1/2	12,70	.500	1,2	3/64	–	●	–
SNGX120716T01020	SNGX454T0420	12,70	1/2	12,70	.500	1,6	1/16	–	●	–

● first choice
○ alternate choice

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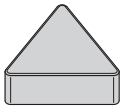
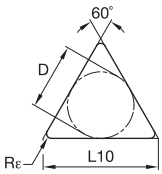
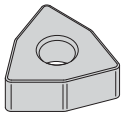
K			
N			
S	●	●	○
H	○		●

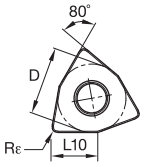




TNGN/TNG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
TNGN220412T01020	**TNG433T0420**	12,70	1/2	22,00	.866	1,2	3/64	●	–	–
TNGN220416T01020	**TNG434T0420**	12,70	1/2	22,00	.866	1,6	1/16	●	–	–

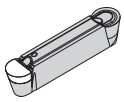


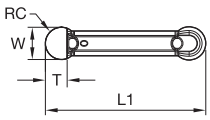


WNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KYS25	KYS30	KB1630
WNGA080408T01020	**WNGA432T0420**	12,70	1/2	8,69	.342	0,8	1/32	–	●	–
WNGA080416T01020	**WNGA434T0420**	12,70	1/2	8,69	.342	1,6	1/16	–	●	–

NOTE: For toolholders and boring bars, see page B163.





● first choice
○ alternate choice

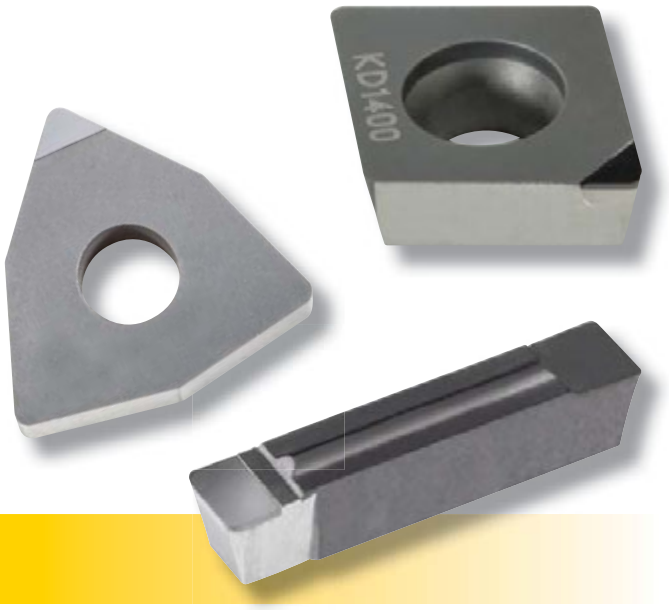
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

Flat Top Full Radius Precision Ground • PcBN

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0300M03P00EST	3	3,00	.118	1,5	.059	20	.78	2,2	.087	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0400M04P00EST	4	4,00	.157	2,0	.079	20	.78	2,9	.114	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0500M05P00EST	5	5,00	.197	2,5	.099	25	.98	3,7	.146	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0600M06P00EST	6	6,00	.236	3,0	.118	30	1.18	4,4	.173	–	–	–	–	–	–	–	–	–	–	●	–	–

NOTE: For A4 holder, boring bars, and blades, see pages C114–C151.

Polycrystalline Diamond Inserts



Polycrystalline Diamond (PCD) Inserts

- Use for machining high-temperature alloys and in targeted machining of non-ferrous materials.
- Significant hardness advantage compared to carbide inserts.
- Increased productivity through higher speeds and longer tool life.
- Best used in processing materials that cannot be machined with conventional tooling.

KD1400™ Grade

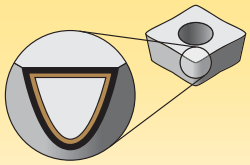
- Ideal for general-purpose turning of non-ferrous materials.
- Use on low to medium silicon-content aluminum alloys, non-metallics, copper, and brass- and zinc-based alloys.
- Excellent mechanical shock resistance.
- Use in a wide range of continuous to interrupted cuts where superior surface finished is needed.

KD1405™ Grade

- The most abrasion-resistant tool material for non-ferrous and non-metallic materials from Kennametal.
- Use when abrasion resistance is needed in the application.
- CVD diamond grade.

KD1425™ Grade

- Engineered for extreme abrasion resistance.
- Good edge strength in demanding applications.
- Ideal choice for high-silicon aluminum alloys, bi-metallic materials, carbon-fiber reinforced plastics, and other abrasive non-metallic materials.

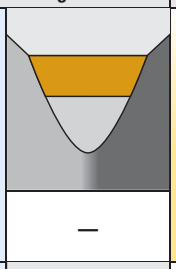
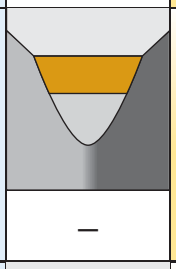
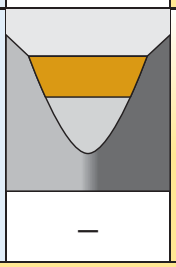


Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

PCD — Polycrystalline Diamond Grades

Coating	Grade Description		05	10	15	20	25	30	35	40	45
KD1400 	**Composition:** An ultra-fine-grain, polycrystalline diamond (PCD) tip brazed onto a carbide substrate. **Application:** Designed for general-purpose turning of primarily non-ferrous materials. It can be applied over a wide range of continuous to interrupted cuts where superior surface finish is needed. Use on low to medium silicon-content aluminum alloys, non-metallics, copper, and brass- and zincbased alloys. The ultra-fine-grain diamond particle size enables superior surface finishes while ensuring the best mechanical shock resistance of any PCD cutting tool.										
		P									
		M									
		K									
		N									
		S									
		H									
KD1405 	**Composition:** A pure CVD-deposited diamond-sheet tool brazed directly to a carbide substrate. **Application:** KD1405™ is the best Kennametal abrasion-resistant tool material for non-ferrous and non-metallic materials. Best applied when abrasion resistance is the desired benefit.										
		P									
		M									
		K									
		N									
		S									
		H									
KD1425 	**Composition:** A multimodal PCD grade with a range of grain sizes brazed onto a carbide substrate. **Application:** Engineered for extreme abrasion resistance, combined with good edge strength for demanding applications. An ideal choice for high-silicon aluminum alloys, bi-metallic (AL/GCI) materials, MMC, carbon-fiber reinforced plastics, and other abrasive non-metallic materials.										
		P									
		M									
		K									
		N									
		S									
		H									

Beyond™ PVD Grades

Beyond™ advanced PVD coatings are well suited to resist high temperatures associated with machining tough alloys. These coatings offer increased tool life and a boost in productivity to the general engineering, transportation, aerospace, energy, and earthworks markets. Use the strength of Beyond PVD coatings and the broad product offering to perform turning, grooving, and cut-off operations in a wide array of materials and applications. Beyond PVD coatings help to maintain consistent chip control and minimize insert edge wear.

beyond™

KCU10™ Grade

- PVD-coated grade with excellent wear resistance. Finishing to medium applications.
- Use in all materials, especially stainless steels and high-temp alloys.

KCU25™ Grade

- PVD-coated grade with superior edge toughness and excellent wear resistance. Medium to roughing applications.
- Use in all materials.

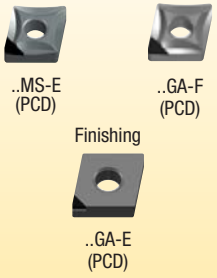
Experience the advantages at your Authorized Kennametal Distributor or at **kennametal.com**.

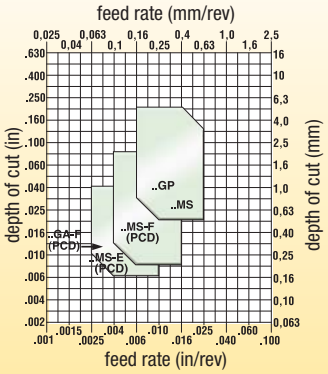
KENNAMETAL®

kennametal.com

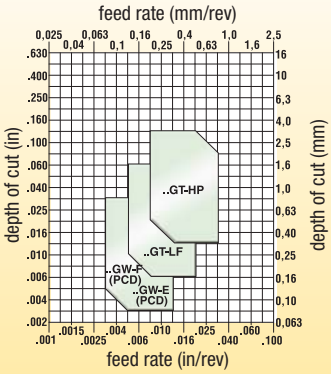
Step 1 • Select the insert geometry

Negative Inserts





Positive Inserts



Step 2 • Select the grade

		Negative Insert Geometry			Positive Insert Geometry	
cutting condition		**..GA-E (PCD)**	**..MS-E (PCD)**	**..GA-F (PCD)**	**..GW-E (PCD)**	**..GW-F (PCD)**
heavily interrupted cut		–	–	**KD1400**	–	**KD1400**
lightly interrupted cut		**KD1405**	**KD1405**	**KD1400**	**KD1405**	**KD1400**
varying depth of cut, casting, or forging skin		**KD1405**	**KD1405**	**KD1425**	**KD1405**	**KD1425**
smooth cut, pre-turned surface		**KD1405**	**KD1405**	**KD1425**	**KD1405**	**KD1425**

Step 3 • Selecting the cutting speed

Low-Silicon Aluminum Alloys
(hypoeutectic <12.2% Si) and Magnesium Alloys

material group	grade	speed — m/min (SFM) 250 (800)	500 (1600)	750 (2400)	1000 (3200)	1250 (4000)	1500 (4800)	1750 (5600)	2000 (6400)	2250 (7200)	2500 (8000)	Starting Conditions m/min	SFM
N1	**KD1400**			◁▷								765	2500

High-Silicon Aluminum Alloys
(hypereutectic >12.2% Si) and Magnesium Alloys

material group	grade	speed — m/min (SFM) 250 (800)	500 (1600)	750 (2400)	1000 (3200)	Starting Conditions m/min	SFM
N3	**KD1405**		◁▷			550	1800
	KD1425		◁▷			765	2500

Additional cutting speed recommendations for miscellaneous workpiece materials

Copper-, Brass-, Zinc-Based on a Machinability Index Range of 70–100 — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N4	KD1400/KD1405		◁▷			520	1700
	KD1425		◁▷			500	1600

Nylon, Plastics, Rubbers, Phenolics, Resins, Fiberglass, and Glass — speed — m/min (SFM) — Starting Conditions ◁▷

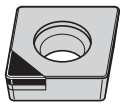
material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N5	KD1400/KD1405		◁▷			400	1300
	KD1425		◁▷			365	1200

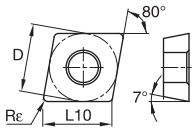
Carbon and Graphite Composites: Brush Alloys, Kevlar, and Graphite (280–400 HB) (30–43 HRC) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N6	KD1400/KD1405			◁▷		760	2500

MMCs (Aluminum-Based Metal Matrix Composites) — speed — m/min (SFM) — Starting Conditions ◁▷

material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N7	KD1405		◁▷			460	1500
	KD1400		◁▷			365	1200





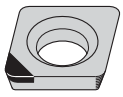
● first choice
○ alternate choice

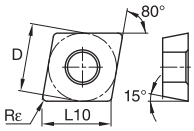
P			
M			
K			
N	●	○	●
S		●	●
H			

CCGW-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CCGW060204FST	**CCGW2151FST**	6,35	1/4	6,45	.254	0,4	1/64	●	–	●
CCGW09T304FST	**CCGW3251FST**	9,53	3/8	9,67	.381	0,4	1/64	●	–	●
CCGW09T308FST	**CCGW3252FST**	9,53	3/8	9,67	.381	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B193–B198.

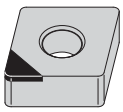


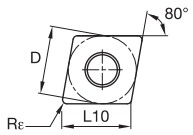


CDHB-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CDHBS4T002FST	**CDHB120605FST**	3,97	.1562	4,03	.159	0,2	.007	●	–	●
CDHBS4T0X0FST	**CDHB1206X0FST**	3,97	5/32	4,03	.159	0,1	.002	●	–	–

NOTE: For toolholders and boring bars, see pages B200–B204.

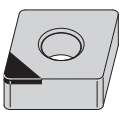


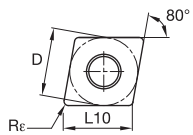


CNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CNGA120404E	**CNGA431E**	12,70	1/2	12,90	.508	0,4	1/64	–	●	–
CNGA120408E	**CNGA432E**	12,70	1/2	12,90	.508	0,8	1/32	–	●	–

NOTE: For toolholders and boring bars, see pages B58–B76.

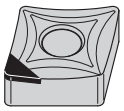


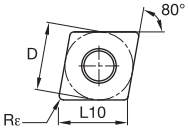


CNGA-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CNGA120404FST	**CNGA431FST**	12,70	1/2	12,90	.508	0,4	1/64	●	–	●
CNGA120408FST	**CNGA432FST**	12,70	1/2	12,90	.508	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B58–B76.



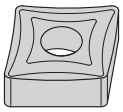


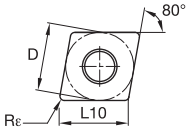
● first choice
○ alternate choice

P			
M			
K			
N	●	○	●
S		●	●
H			

CNMS-E

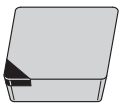
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CNMS120408E	CNMS432E	12,70	1/2	12,90	.508	0,8	1/32	–	●	–

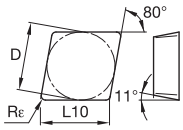




CNMS-FST

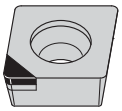
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CNMS120404FST	CNMS431FST	12,70	1/2	12,90	.508	0,4	1/64	●	–	–
CNMS120408FST	CNMS432FST	12,70	1/2	12,90	.508	0,8	1/32	●	–	●

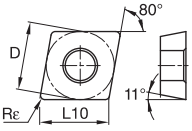




CPGN/CPG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CPGN120304F	CPG421F	12,70	1/2	12,90	.508	0,4	1/64	–	–	●
CPGN120308F	CPG422F	12,70	1/2	12,90	.508	0,8	1/32	–	–	●

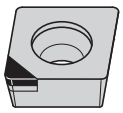


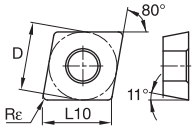


CPGW-E-F

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CPGW060204E	CPGW2151E	6,35	1/4	6,45	.254	0,4	1/64	–	●	–
CPGW09T304E	CPGW3251E	9,53	3/8	9,67	.381	0,4	1/64	–	●	–

NOTE: For toolholders and boring bars, see pages B209–B223.





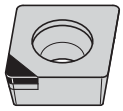
● first choice
○ alternate choice

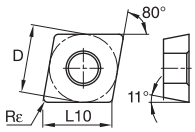
P			
M			
K			
N	●	○	●
S		●	●
H			

CPGW-FWST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CPGW060204FWST	CPGW2151FWST	6,35	1/4	6,45	.254	0,4	1/64	●	–	●
CPGW09T308FWST	CPGW3252FWST	9,53	3/8	9,67	.381	0,8	1/32	●	–	●
CPGW120408FWST	CPGW432FWST	12,70	1/2	12,90	.508	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B209–B223.

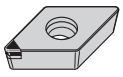


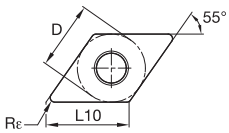


CPGW-ST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
CPGW060202FST	CPGW21505FST	6,35	1/4	6,45	.254	0,2	.008	●	–	●
CPGW060204FST	CPGW2151FST	6,35	1/4	6,45	.254	0,4	1/64	●	–	●
CPGW060208FST	CPGW2152FST	6,35	1/4	6,45	.254	0,8	1/32	●	–	●
CPGW09T304FST	CPGW3251FST	9,53	3/8	9,67	.381	0,4	1/64	●	–	●
CPGW09T308FST	CPGW3252FST	9,53	3/8	9,67	.381	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B209–B223.

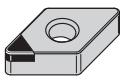


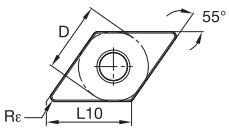


DCGW-ST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DCGW070204FST	DCGW2151FST	6,35	1/4	7,75	.305	0,4	1/64	●	–	●
DCGW11T304FST	DCGW3251FST	9,53	3/8	11,63	.458	0,4	1/64	●	–	●

NOTE: For toolholders and boring bars, see pages B227–B230.

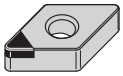


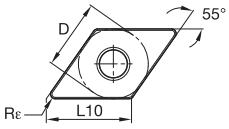


DNGA

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DNGA150404E	DNGA431E	12,70	1/2	15,50	.610	0,4	1/64	–	●	–

NOTE: For toolholders and boring bars, see pages B87–B96.





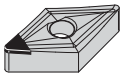
● first choice
○ alternate choice

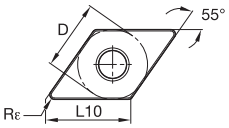
P			
M			
K			
N	●	○	●
S		●	●
H			

DNGA-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DNGA150404FST	**DNGA431FST**	12,70	1/2	15,50	.610	0,4	1/64	●	–	●
DNGA150408FST	**DNGA432FST**	12,70	1/2	15,50	.610	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.

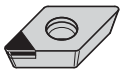


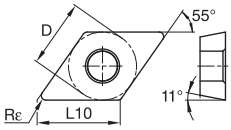


DNMS-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DNMS150404FST	**DNMS431FST**	12,70	1/2	15,50	.610	0,4	1/64	●	–	–
DNMS150408FST	**DNMS432FST**	12,70	1/2	15,50	.610	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B87–B96.





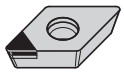
DPGW-E

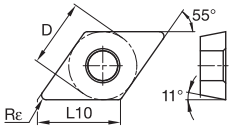
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DPGW11T304E	**DPGW3251E**	9,53	3/8	11,63	.458	0,4	1/64	–	●	–

NOTE: For toolholders and boring bars, see pages B234–B237.

● first choice
○ alternate choice

P			
M			
K			
N	●	○	●
S		●	●
H			

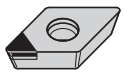


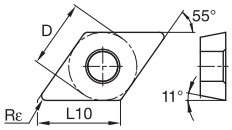


DPGW-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DPGW070202FST	**DPGW21505FST**	6,35	1/4	7,75	.305	0,2	.008	●	–	●
DPGW070204FST	**DPGW2151FST**	6,35	1/4	7,75	.305	0,4	1/64	●	–	●
DPGW11T304FST	**DPGW3251FST**	9,53	3/8	11,63	.458	0,4	1/64	●	–	●

NOTE: For toolholders and boring bars, see pages B234–B237.

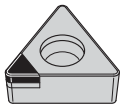


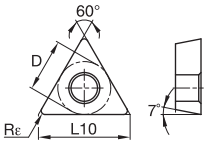


DPGW-FWST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
DPGW11T304FWST	**DPGW3251FWST**	9,53	3/8	11,63	.458	0,2	.007	–	–	●

NOTE: For toolholders and boring bars, see pages B234–B237.

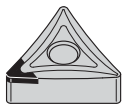


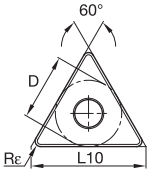


TCGW-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
TCGW110204FST	**TCGW2151FST**	6,35	1/4	11,00	.433	0,4	1/64	●	–	●
TCGW16T304FST	**TCGW3251FST**	9,53	3/8	16,50	.650	0,4	1/64	●	–	–

NOTE: For toolholders and boring bars, see pages B259–B262.



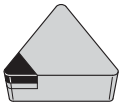


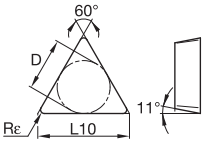
TNMS-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
TNMS160404FST	**TNMS331FST**	9,53	3/8	16,50	.650	0,4	1/64	●	–	●
TNMS160408FST	**TNMS332FST**	9,53	3/8	16,50	.650	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B131–B143.

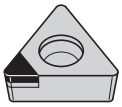
P	
M	
K	
N	● first choice
S	○ alternate choice
H	

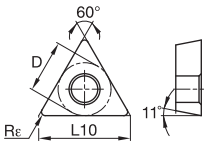




TPGN/TPG

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
TPGN110304F	TPG221F	6,35	1/4	11,00	.433	0,4	1/64	–	–	●
TPGN160304F	TPG321F	9,53	3/8	16,50	.650	0,4	1/64	–	–	●
TPGN160308F	TPG322F	9,53	3/8	16,50	.650	0,8	1/32	–	–	●
TPGN220408F	TPG432F	12,70	1/2	22,00	.866	0,8	1/32	–	–	●

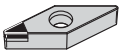


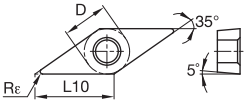


TPGW-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
TPGW110204FST	TPGW2151FST	6,35	1/4	11,00	.433	0,4	1/64	●	–	●
TPGW110208FST	TPGW2152FST	6,35	1/4	11,00	.433	0,8	1/32	●	–	–
TPGW16T304FST	TPGW3251FST	9,53	3/8	16,50	.650	0,4	1/64	–	–	●
TPGW16T308FST	TPGW3252FST	9,53	3/8	16,50	.650	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B270–B279.





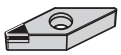
VBGW-E

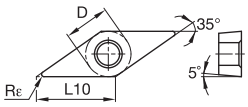
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VBGW160408E	VBGW332E	9,53	3/8	16,61	.654	0,8	1/32	–	●	–

NOTE: For toolholders and boring bars, see pages B282–B285.

● first choice
○ alternate choice

P			
M			
K			
N	●	○	●
S		●	●
H			

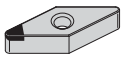


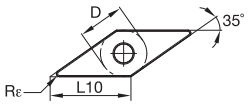


VBGW-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VBGW110304FST	VBGW221FST	6,35	1/4	11,07	.436	0,4	1/64	●	–	●
VBGW160404FST	VBGW331FST	9,53	3/8	16,61	.654	0,4	1/64	●	–	●

NOTE: For toolholders and boring bars, see pages B282–B285.

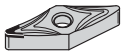


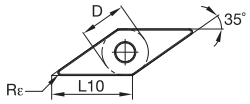


VNGA-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VNGA160404FST	VNGA331FST	9,53	3/8	16,61	.654	0,4	1/64	●	–	–
VNGA160408FST	VNGA332FST	9,53	3/8	16,61	.654	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B150–B155.

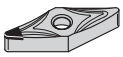


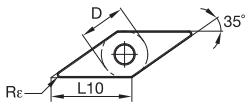


VNMS-E

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VNMS160404E	VNMS331E	9,53	3/8	16,61	.654	0,4	1/64	–	●	–
VNMS160408E	VNMS332E	9,53	3/8	16,61	.654	0,8	1/32	–	●	–

NOTE: For toolholders and boring bars, see pages B150–B155.





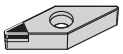
VNMS-FST

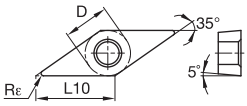
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VNMS160404FST	VNMS331FST	9,53	3/8	16,61	.654	0,4	1/64	●	–	●
VNMS160408FST	VNMS332FST	9,53	3/8	16,61	.654	0,8	1/32	●	–	●

NOTE: For toolholders and boring bars, see pages B150–B155.

● first choice
○ alternate choice

P			
M			
K			
N	●	○	●
S		●	●
H			

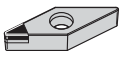


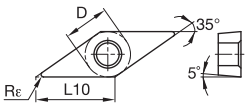


VPGN

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VCGN160404	VPGN331	9,53	3/8	16,61	.654	0,4	1/64	–	–	●
VCGN160408	VPGN332	9,53	3/8	16,61	.654	0,8	1/32	–	–	●

NOTE: For toolholders and boring bars, see pages B282–B285.

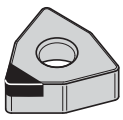


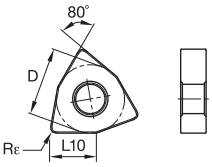


VPGR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
VCGR160404	VPGR331	9,53	3/8	16,61	.654	0,4	1/64	–	–	●
VCGR160408	VPGR332	9,53	3/8	16,61	.654	0,8	1/32	–	–	●
VCGR160412	VPGR333	9,53	3/8	16,61	.654	1,2	3/64	–	–	●

NOTE: For toolholders and boring bars, see pages B282–B285.



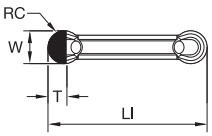


WNGA-FST

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	KD1400	KD1405	KD1425
WNGA080408FST	WNGA432FST	12,70	1/2	8,69	.342	0,8	1/32	–	–	●

NOTE: For toolholders and boring bars, see page B163.

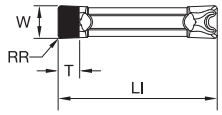
● first choice
○ alternate choice



Flat Top Full Radius Precision Ground • PCD

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0500M05P00E	5	5,00	.197	2,5	.099	25	.98	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●

NOTE: For A4 holder, boring bars, and blades, see pages C114–C151.

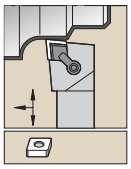


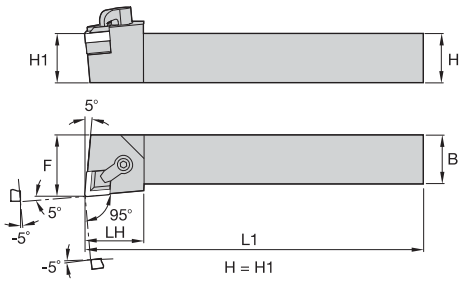
Flat Top Precision Ground • PCD

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04E	3	3,00	.118	0,4	.016	20	.79	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0400M04P04E	4	4,00	.158	0,4	.016	20	.79	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0500M05P08E	5	5,00	.197	0,8	.031	25	.98	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●

NOTE: For A4 holder, boring bars, and blades, see pages C114–C151.

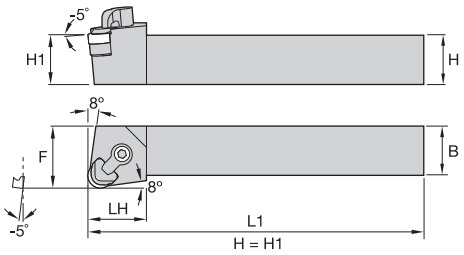
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	





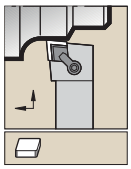
MCLN-C -5°

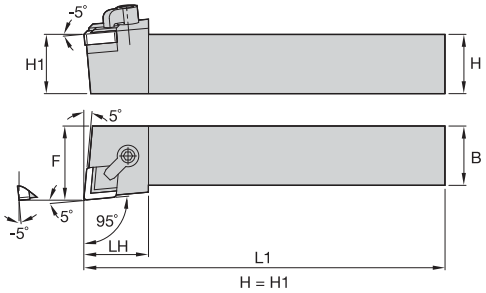
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096643	**MCLNRC164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN442**	**KL46L**	3/32	**CK21**	**STC20**	1/8



MRGN-C

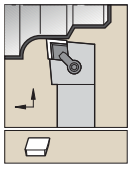
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096647	**MRGNRC164D**	1.00	1.00	1.250	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096648	**MRGNRC204D**	1.25	1.25	1.500	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096646	**MRGNRC244D**	1.50	1.50	2.000	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
left hand													
1096673	**MRGNLC164D**	1.00	1.00	1.250	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096674	**MRGNLC204D**	1.25	1.25	1.500	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8
1096672	**MRGNLC244D**	1.50	1.50	2.000	6.00	1.25	RN..43	**IRSN44**	**KL46L**	3/32	**CK21**	**STC20**	1/8

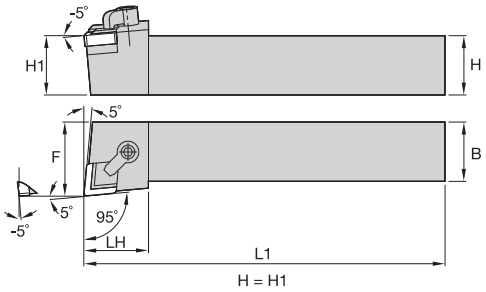




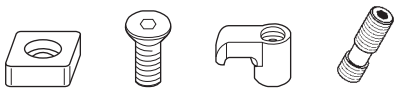
CCLN -5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096722	**CCLNR164**	1.00	1.00	1.250	6.00	1.00	CN.422	**SM396**	**S111**	1/16	**CK21**	**STC20**	1/8
left hand													
1096717	**CCLNL164**	1.00	1.00	1.250	6.00	1.00	CN.422	**SM396**	**S111**	1/16	**CK21**	**STC20**	1/8

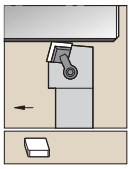


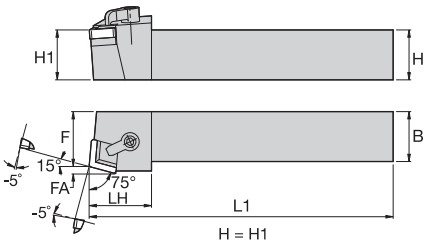


CCLN-P -5°



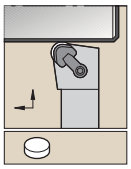
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	clamp	clamp screw	hex
right hand												
1096699	**CCLNRP163D**	1.00	1.00	1.250	6.00	1.25	CN.322	**SM432**	**SL344**	**CK20**	**STC11**	1/8
left hand												
1096698	**CCLNLP163D**	1.00	1.00	1.250	6.00	1.25	CN.322	**SM432**	**SL344**	**CK20**	**STC11**	1/8

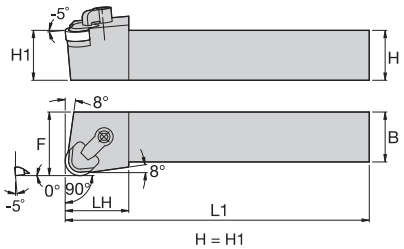




CCRN-P 15°

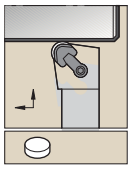
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	clamp	clamp screw	hex
right hand													
1096701	**CCRNRP163D**	1.00	1.00	1.161	6.00	1.25	.09	CN.322	**SM432**	**SL344**	**CK20**	**STC11**	1/8

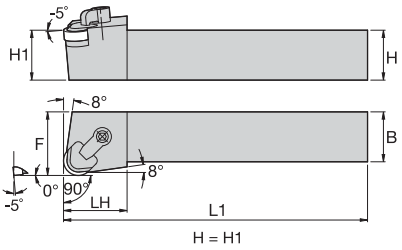




CRGN

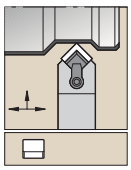
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096733	**CRGNR123**	.75	.75	.875	4.50	.75	RN.32	**SM46**	**S111**	1/16	**CK6**	**STC5**	3/32
1096734	**CRGNR163**	1.00	1.00	1.125	6.00	.75	RN.32	**SM46**	**S111**	1/16	**CK6**	**STC5**	3/32
1096735	**CRGNR164**	1.00	1.00	1.125	6.00	1.00	RN.42	**SM218**	**S111**	1/16	**CK12**	**STC4**	5/32
3870038	**CRGNR244F**	1.50	1.50	2.000	8.00	1.25	RNG45	**SM45**	**S111**	1/16	**CK12**	**STC4**	5/32
left hand													
1096728	**CRGNL123**	.75	.75	.875	4.50	.75	RN.32	**SM46**	**S111**	1/16	**CK6**	**STC5**	3/32
1096729	**CRGNL163**	1.00	1.00	1.125	6.00	.75	RN.32	**SM46**	**S111**	1/16	**CK6**	**STC5**	3/32
1096730	**CRGNL164**	1.00	1.00	1.125	6.00	1.00	RN.42	**SM218**	**S111**	1/16	**CK12**	**STC4**	5/32

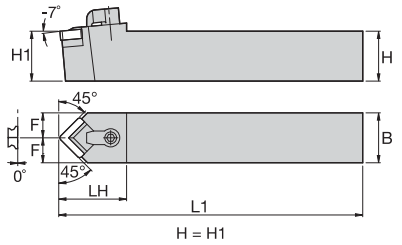




CRGN-P

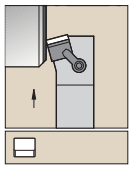
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	clamp	clamp screw	hex
right hand												
1096703	**CRGNRP163D**	1.00	1.00	1.250	6.00	.75	RNM32	**SM434**	**SL344**	**CK20**	**STC20**	1/8
1096705	**CRGNRP164D**	1.00	1.00	1.250	6.00	1.13	RN.42	**SM437**	**SL344**	**CK28**	**STC4**	5/32
1096707	**CRGNRP204D**	1.25	1.25	1.500	6.00	1.13	RN.42	**SM437**	**SL344**	**CK28**	**STC4**	5/32
left hand												
1096706	**CRGNLP204D**	1.25	1.25	1.500	6.00	1.13	RN.42	**SM437**	**SL344**	**CK28**	**STC4**	5/32

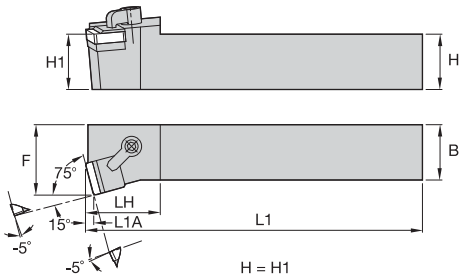




CSDN 45°

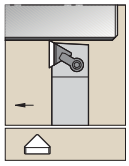
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1096772	**CSDNN124**	.75	.75	.375	4.50	1.31	SN.422	**SM47**	**S111**	1/16	**CK10**	**STC4**	5/32
1096739	**CSDNN164**	1.00	1.00	.500	6.00	1.31	SN.422	**SM47**	**S111**	1/16	**CK9**	**STC4**	5/32

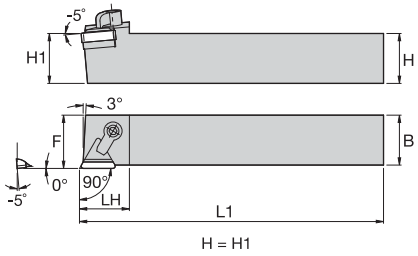




CSKN 15°

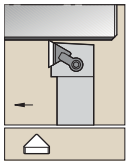
order number	catalog number	H	B	F	L1	LH	L1A	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096750	**CSKNR856**	1.25	1.00	1.190	6.00	1.50	.18	SN.633	**SM216**	**S125**	3/32	**CK9**	**STC4**	5/32

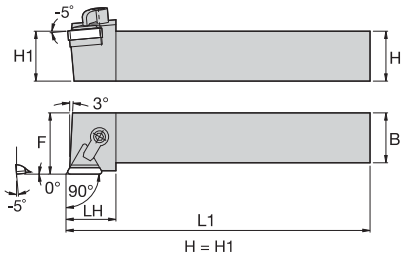




CTAN 0°

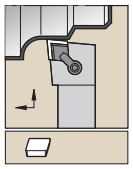
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096798	**CTANR123**	.75	.75	.75	4.50	1.06	TN.322	**SM48**	**S111**	1/16	**CK10**	**STC4**	5/32

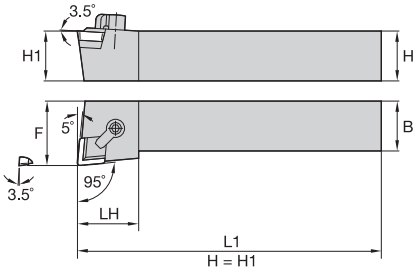




CTGN 0°

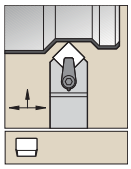
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096887	**CTGNR164**	1.00	1.00	1.250	6.00	1.19	TN.432	**SM26**	**S125**	3/32	**CK9**	**STC4**	5/32

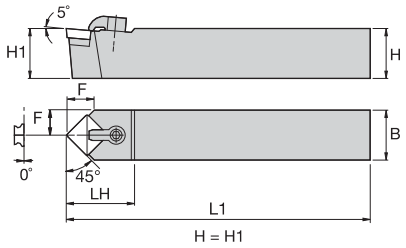




CCLP -5°

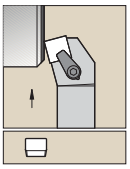
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096902	**CCLPR084V**	.50	.50	.750	3.50	1.00	CP.422	**SM369**	**S19**	1/16	**CK7**	**STC9**	3/32
1096903	**CCLPR124B**	.75	.75	1.000	4.50	1.25	CP.422	**SM369**	**S111**	1/16	**CK13**	**STC8**	5/32
1096904	**CCLPR164C**	1.00	1.00	1.250	5.00	1.25	CP.422	**SM369**	**S111**	1/16	**CK12**	**STC4**	5/32
left hand													
1096898	**CCLPL124B**	.75	.75	1.000	4.50	1.25	CP.422	**SM369**	**S111**	1/16	**CK13**	**STC8**	5/32
1096899	**CCLPL164C**	1.00	1.00	1.250	5.00	1.25	CP.422	**SM369**	**S111**	1/16	**CK12**	**STC4**	5/32

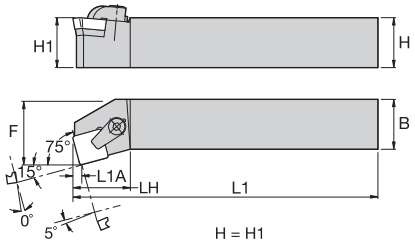




CSDP 45°

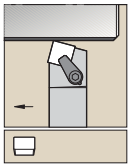
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1096909	**CSDPN103**	.63	.63	.312	4.50	.94	SP.322	**SM120**	**SL344**	—	**CK7**	**STC5**	3/32
1096910	**CSDPN124**	.75	.75	.375	4.50	1.38	SP.422	**SM40**	**S111**	1/16	**CK10**	**STC8**	5/32
1096912	**CSDPN644**	1.00	.75	.375	6.00	1.38	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096911	**CSDPN164**	1.00	1.00	.500	6.00	1.38	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096914	**CSDPN856**	1.25	1.00	.500	6.00	1.82	SP.633	**SM36**	**S125**	3/32	**CK29**	**STC19**	3/16

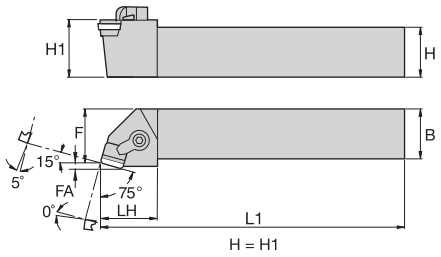




CSKP 15°

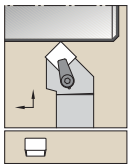
order number	catalog number	H	B	F	L1	LH	L1A	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096920	CSKPR164D	1.00	1.00	1.250	6.00	1.13	.12	SP.422	SM40	S111	1/16	CK9	STC4	5/32
left hand														
1096917	CSKPL164D	1.00	1.00	1.250	6.00	1.13	.12	SP.422	SM40	S111	1/16	CK9	STC4	5/32

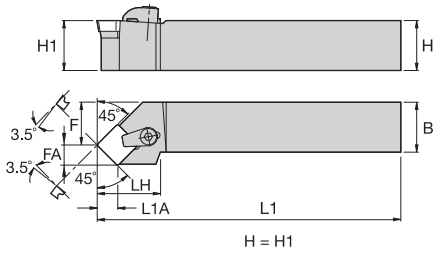




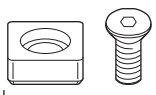
CSRP 15°

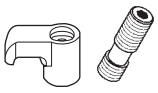
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096932	CSRPR164D	1.00	1.00	1.048	6.00	1.19	.12	SP.422	SM40	S111	1/16	CK9	STC4	5/32
1096934	CSRPR866E	1.50	1.00	1.060	7.00	1.50	.18	SP.633	SM36	S125	3/32	CK9	STC4	5/32
left hand														
1096925	CSRPL124B	.75	.75	.855	4.50	1.19	.12	SP.422	SM40	S111	1/16	CK10	STC8	5/32
1096926	CSRPL164D	1.00	1.00	1.048	6.00	1.19	.12	SP.422	SM40	S111	1/16	CK9	STC4	5/32
1096927	CSRPL856D	1.25	1.00	1.060	6.00	1.50	.18	SP.633	SM36	S125	3/32	CK9	STC4	5/32
1096928	CSRPL866E	1.50	1.00	1.060	7.00	1.50	.18	SP.633	SM36	S125	3/32	CK9	STC4	5/32



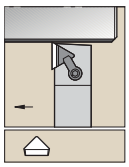


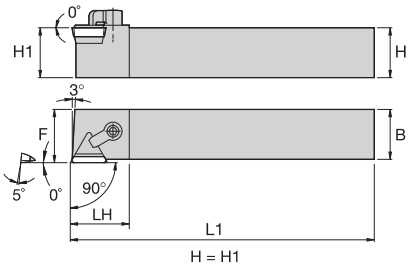
CSSP 45°



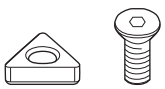


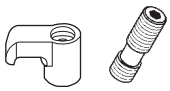
order number	catalog number	H	B	F	L1	LH	FA	L1A	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand															
1085234	**CSwSPR164D**	1.00	1.00	1.170	6.00	1.44	.34	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096937	**CSSPR854D**	1.25	1.00	1.170	6.00	1.44	.34	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
left hand															
1096691	**CSSPL164D**	1.00	1.00	1.170	6.00	1.44	.33	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096935	**CSSPL854D**	1.25	1.00	1.170	6.00	1.44	.33	.35	SP.422	**SM40**	**S111**	1/16	**CK9**	**STC4**	5/32
1096693	**CSSPL856D**	1.25	1.00	1.020	6.00	1.50	.48	.53	SP.633	**SM36**	**S125**	3/32	**CK9**	**STC4**	5/32



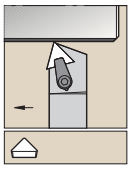


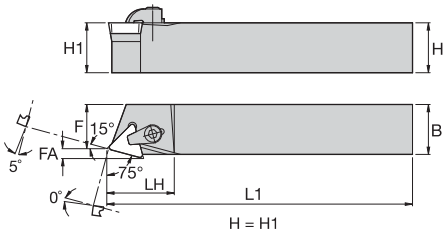
CTAP 0°





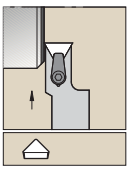
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096948	**CTAPR082B**	.50	.50	.500	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1096949	**CTAPR102B**	.63	.63	.625	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC5**	3/32
1096950	**CTAPR123B**	.75	.75	.750	4.50	1.06	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096951	**CTAPR163D**	1.00	1.00	1.000	6.00	1.06	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1096952	**CTAPR854D**	1.25	1.00	1.000	6.00	1.12	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand													
1096941	**CTAPL123B**	.75	.75	.750	4.50	1.06	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096946	**CTAPL854D**	1.25	1.00	1.000	6.00	1.12	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

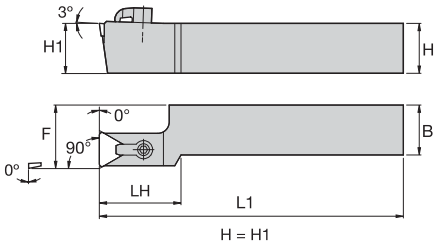




CTBP 15°

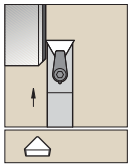
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096959	**CTBPR123B**	.75	.75	.600	4.50	1.19	.15	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096960	**CTBPR163D**	1.00	1.00	.850	6.00	1.19	.15	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
left hand														
1096955	**CTBPL123B**	.75	.75	.600	4.50	1.19	.15	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32

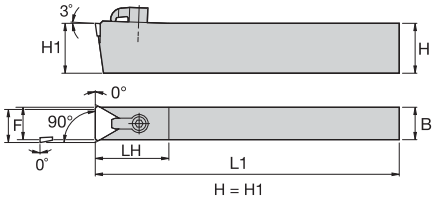




CTCP 0°

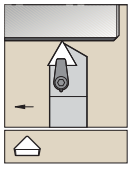
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096976	**CTCPR123B**	.75	.75	1.000	4.50	1.50	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096977	**CTCPR163C**	1.00	1.00	1.250	5.00	1.50	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096978	**CTCPR164C**	1.00	1.00	1.250	5.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096979	**CTCPR164D**	1.00	1.00	1.250	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096980	**CTCPR204D**	1.25	1.25	1.500	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096982	**CTCPR244D**	1.50	1.50	2.000	6.00	3.00	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
left hand													
1096963	**CTCPL163C**	1.00	1.00	1.250	5.00	1.50	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096965	**CTCPL164D**	1.00	1.00	1.250	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096966	**CTCPL204D**	1.25	1.25	1.500	6.00	1.62	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096968	**CTCPL244D**	1.50	1.50	2.000	6.00	3.00	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32

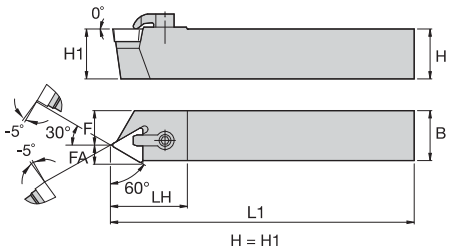




CTCPN 0°

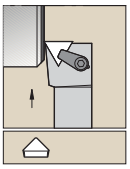
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1096972	**CTCPN443**	1.00	.50	.542	8.00	1.19	TP.322	**SM41**	**S111**	1/16	**CK23**	**STC11**	1/8
1096971	**CTCPN124**	.75	.75	.782	6.00	1.31	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC8**	5/32
1096973	**CTCPN644**	1.00	.75	.782	8.00	1.31	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32
1096974	**CTCPN664**	1.50	.75	.782	8.00	1.31	TP.432	**SM37**	**S125**	3/32	**CK13**	**STC4**	5/32

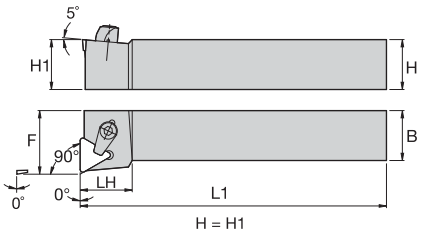




CTEP 30°

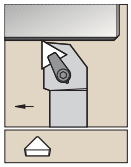
order number	catalog number	H	B	F	L1	LH	FA	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1096985	**CTEPR123B**	.75	.75	.460	4.50	1.25	.28	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096992	**CTEPR163D**	1.00	1.00	.700	6.00	1.25	.28	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1096993	**CTEPR854D**	1.25	1.00	.610	6.00	1.31	.39	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand														
1096989	**CTEPL854D**	1.25	1.00	.610	6.00	1.31	.39	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

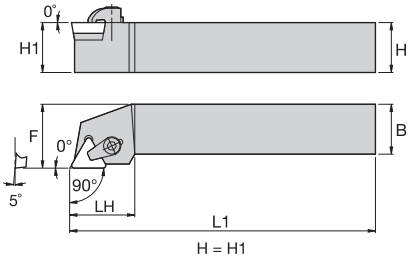




CTFP 0°

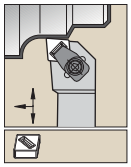
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1097008	**CTFPR082V**	.50	.50	.750	3.50	.56	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097011	**CTFPR123B**	.75	.75	1.000	4.50	1.12	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097013	**CTFPR163D**	1.00	1.00	1.250	6.00	1.12	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097014	**CTFPR164C**	1.00	1.00	1.250	5.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097015	**CTFPR164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097018	**CTFPR854D**	1.25	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097016	**CTFPR204D**	1.25	1.25	1.500	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand													
1096997	**CTFPL123B**	.75	.75	1.000	4.50	1.12	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1096999	**CTFPL163D**	1.00	1.00	1.250	6.00	1.12	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097001	**CTFPL164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097004	**CTFPL854D**	1.25	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

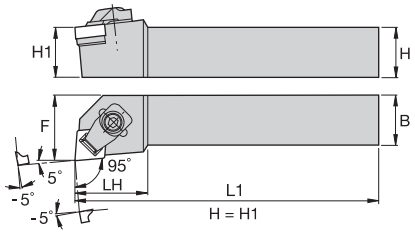




CTGP 0°

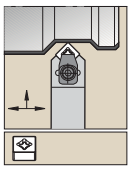
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand													
1096696	**CTGPR082B**	.50	.50	.750	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097035	**CTGPR102B**	.63	.63	.875	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097036	**CTGPR123A**	.75	.75	1.000	4.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097037	**CTGPR123B**	.75	.75	1.000	4.50	1.13	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097038	**CTGPR163C**	1.00	1.00	1.250	5.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097039	**CTGPR163D**	1.00	1.00	1.250	6.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097041	**CTGPR164C**	1.00	1.00	1.250	5.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097042	**CTGPR164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097043	**CTGPR204D**	1.25	1.25	1.500	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand													
1097021	**CTGPL102B**	.63	.63	.875	4.50	.75	TP.221	**SM119**	**SL344**	—	**CK19**	**STC9**	3/32
1097022	**CTGPL123B**	.75	.75	1.000	4.50	1.13	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1097023	**CTGPL163C**	1.00	1.00	1.250	5.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097024	**CTGPL163D**	1.00	1.00	1.250	6.00	1.13	TP.322	**SM41**	**S111**	1/16	**CK9**	**STC4**	5/32
1097026	**CTGPL164D**	1.00	1.00	1.250	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
1097027	**CTGPL204D**	1.25	1.25	1.500	6.00	1.25	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32

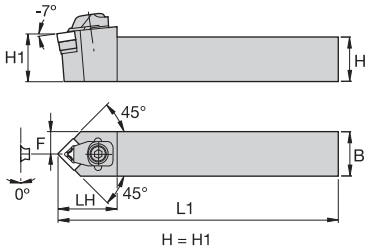




CCLN-MX -5°

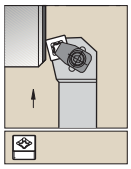
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx	clamp assembly	Torx
right hand												
1540438	**CCLNR164DMX5**	1.00	1.00	1.250	6.00	1.25	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25
1540445	**CCLNR204DMX5**	1.25	1.25	1.500	6.00	1.25	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25
left hand												
1540443	**CCLNL164DMX5**	1.00	1.00	1.250	6.00	1.25	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25
1540447	**CCLNL204DMX5**	1.25	1.25	1.500	6.00	1.25	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25

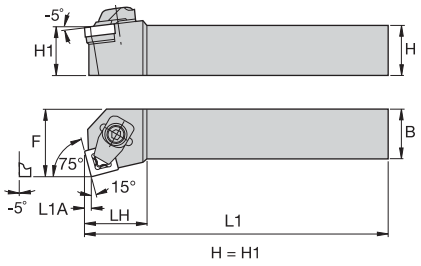




CSDN-MX 45°

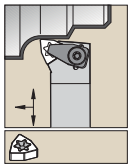
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx	clamp assembly	Torx
1540492	**CSDNN164DMX5**	1.00	1.00	.500	6.00	1.38	SN.X452	**552.232**	**554.260**	T20	**551.326**	T25

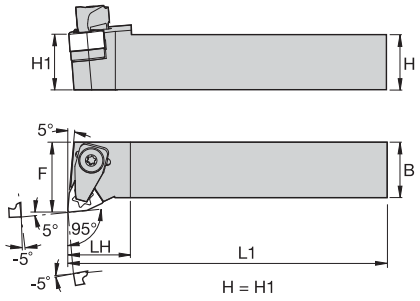




CSKN-MX 15°

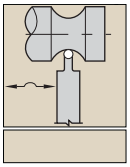
order number	catalog number	H	B	F	L1	LH	L1A	gage insert	shim	shim screw	Torx	clamp assembly	Torx
right hand													
1540495	**CSKNR164DMX5**	1.00	1.00	1.250	6.00	1.06	.12	SN.X452	**552.232**	**554.260**	T20	**551.326**	T25
left hand													
1541374	**CSKNL164DMX5**	1.00	1.00	1.250	6.00	1.06	.12	SN.X452	**552.232**	**554.260**	T20	**551.326**	T25

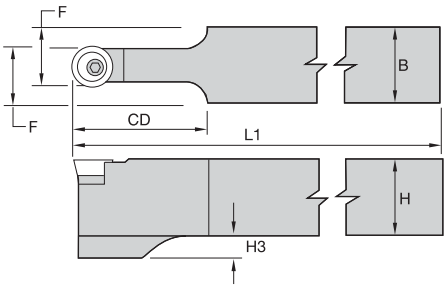




CWLN-MX -5°

order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx	clamp assembly	Torx
right hand												
1873125	**CWLNR164DMX5**	1.00	1.00	1.250	6.00	1.12	WN.X452	**552.210**	**554.260**	T20	**551.326**	T25
1873184	**CWLNR204DMX5**	1.25	1.25	1.500	6.00	1.12	WN.X452	**552.210**	**554.260**	T20	**551.326**	T25
left hand												
1873128	**CWLNL164DMX5**	1.00	1.00	1.250	6.00	1.12	WN.X452	**552.210**	**554.260**	T20	**551.326**	T25
1873185	**CWLNL204DMX5**	1.25	1.25	1.500	6.00	1.12	WN.X452	**552.210**	**554.260**	T20	**551.326**	T25

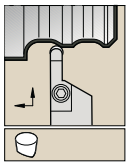


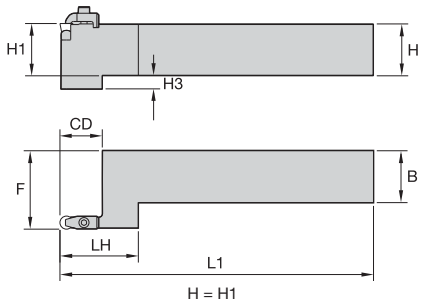


Bevel Lock

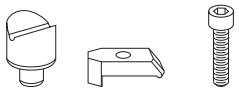
order number	catalog number	H	B	F	L1	CD	H3	gage insert	shim	lock pin	hex
1095802	**PROON164D**	1.00	1.00	.750	6.00	1.86	—	RC..43	**SMRN42B**	**BP46**	3/32
1095803	**PROON204D**	1.25	1.25	.875	6.00	1.88	—	RC..43	**SMRN42B**	**BP46**	3/32
1095806	**PROON244D**	1.50	1.50	1.000	6.00	1.88	—	RC..43	**SMRN42B**	**BP46**	3/32
1095804	**PROON206D**	1.25	1.25	1.000	6.00	2.36	—	RC..64	**SMRN63B**	**BP68**	1/8
1095808	**PROON246**	1.50	1.50	1.125	8.00	2.37	—	RC..64	**SMRN63B**	**BP68**	1/8
1095805	**PROON208D**	1.25	1.25	1.125	6.00	2.32	.25	RC..86	**SMRN84B**	**BP812**	9/64

NOTE: Order numbers 1095802, 1095803, and 1095806 accept RCGH-43 inserts only. RCMH-43 inserts will not fit.

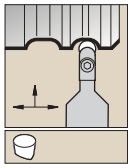


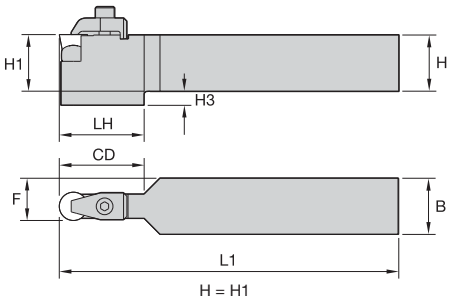


411-VRS

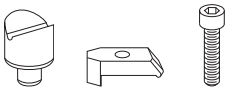


order number	catalog number	H	B	F	L1	LH	CD	H3	gage insert	nest	clamp	clamp screw	hex
right hand													
1298873	**4111492VRS**	1.00	1.00	1.500	6.00	1.50	.75	.25	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
1298876	**4111573VRS**	1.00	1.00	1.000	6.00	1.19	1.13	.25	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
1156449	**4111593VRS**	1.25	1.25	1.250	6.00	1.19	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
1298882	**4111654VRS**	1.00	1.00	1.000	6.00	1.56	1.50	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
1298884	**4111674VRS**	1.25	1.25	1.250	6.00	1.56	1.50	—	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
left hand													
1298879	**4111603VRS**	1.25	1.25	1.250	6.00	1.19	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
1298883	**4111664VRS**	1.00	1.00	1.000	6.00	1.50	1.50	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm



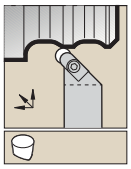


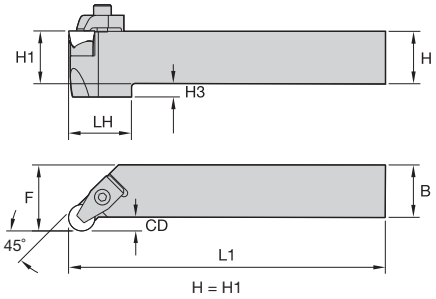
CRDP



order number	catalog number	H	B	F	L1	LH	CD	H3	gage insert	nest	clamp	clamp screw	hex
3641572	**CRDPN162DV**	1.00	1.00	.496	6.00	—	.75	—	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
3641593	**CRDPN163DV**	1.00	1.00	.496	6.00	—	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
3641594	**CRDPN203DV**	1.25	1.25	.621	6.00	—	1.13	—	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm
3641595	**CRDPN164DV**	1.00	1.00	.496	6.00	1.50	1.50	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
3641597	**CRDPN204DV**	1.25	1.25	.621	6.00	—	1.50	—	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm

NOTE: CRDP toolholders are able to use RPGX and RCGX insert styles.

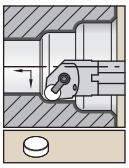




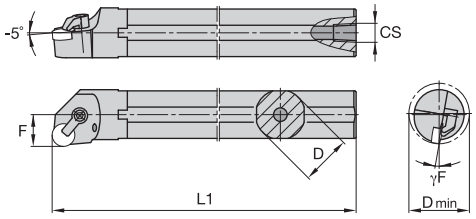
CRGP

order number	catalog number	H	B	F	L1	CD	gage insert	nest	clamp	clamp screw	hex
right hand											
3641603	**CRGPR162DV**	1.00	1.00	1.250	6.00	.25	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
3641611	**CRGPR204DV**	1.25	1.25	1.500	6.00	.25	R..V45	**NST3**	**CM216**	**CS412**	3.5 mm
left hand											
3641604	**CRGPL162DV**	1.00	1.00	1.250	6.00	.25	R..V23	**NST1**	**CM214**	**MS1321**	2.5 mm
3641608	**CRGPL203DV**	1.25	1.25	1.500	6.00	.25	R..V35	**NST2**	**CM219**	**CS412**	3.5 mm

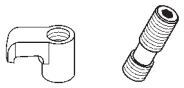
NOTE: CRGP toolholders are able to use RPGX and RCGX insert styles.



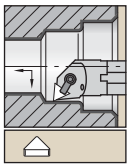
Steel shank with through coolant.



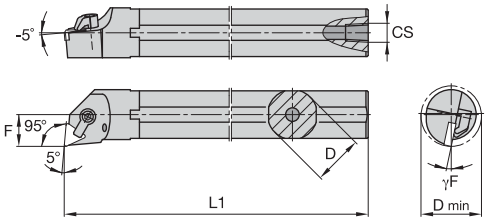
A-CRGN



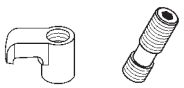
order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	clamp	clamp screw	hex
right hand											
1094792	**A16CRGNR3**	1.000	1.200	.640	12.00	1/4-18 NPT	-10.0	RN.32	**CK7LP**	**STC9**	3/32
left hand											
1094793	**A16CRGNL3**	1.000	1.200	.640	12.00	1/4-18 NPT	-10.0	RN.32	**CK7LP**	**STC9**	3/32



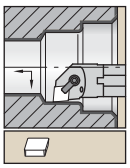
Steel shank with through coolant.



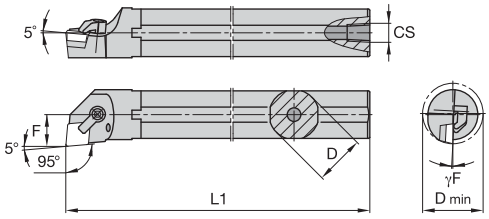
A-CTLN-5°



order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	clamp	clamp screw	hex
right hand											
1094818	**A10SCTLNR2**	.625	.770	.406	10.00	1/8-27 NPT	-12.0	TN.221	**CK7LP**	**STC9**	3/32
left hand											
1094816	**A08RCTLNR2**	.500	.600	.312	8.00	1/16-27 NPT	-14.0	TN.221	**CK27**	**STC27**	5/64
1094819	**A10CTLNL2**	.625	.770	.406	10.00	1/8-27 NPT	-12.0	TN.221	**CK7LP**	**STC9**	3/32

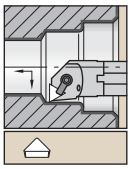


Steel shank with through coolant.

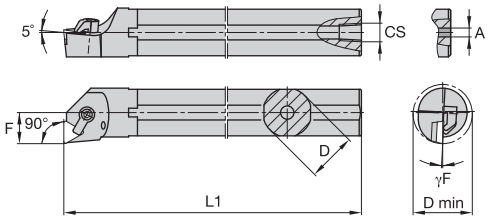


A-CCLP-5°

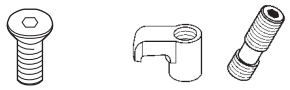
order number	catalog number	D	D min	F	L1	CS	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand														
1094896	**A16CCLPR4**	1.000	1.200	.640	12.00	1/4-18 NPT	-3.0	CP.422	**SM369**	**S19**	1/16	**CK20**	**STC11**	1/8
1094900	**A24CCLPR4**	1.500	1.760	.890	14.00	1/4-18 NPT	.0	CP.422	**SM369**	**S19**	1/16	**CK22**	**STC26**	1/8



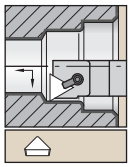
Steel shank with through coolant.



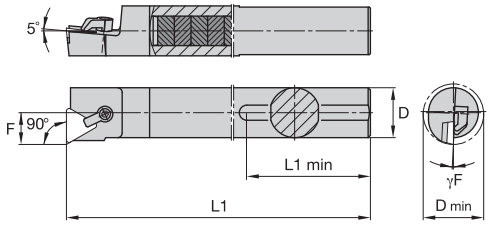
A-CTFP 0°



order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand															
1094872	**A06RCTFPR2**	.375	.480	.250	6.00	.13	—	-3.0	TPG.2151	**—**	**—**	—	**CK27**	**STC27**	5/64
1094874	**A08RCTFPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**—**	**—**	—	**CK27**	**STC27**	5/64
1094876	**A10SCTFPR2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-4.0	TP.221	**—**	**—**	—	**CK19**	**STC9**	3/32
1094878	**A12SCTFPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**—**	**—**	—	**CK7**	**STC9**	3/32
1094880	**A16TCTFPR3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	.0	TP.322	**—**	**—**	—	**CK20**	**STC11**	1/8
1094882	**A20UCTFPR3**	1.250	1.470	.765	14.00	.25	1/4-18 NPT	-3.0	TP.322	**SM41**	**S19**	1/16	**CK10**	**STC8**	5/32
1094884	**A24CTFPR3**	1.500	1.760	.890	14.00	.25	1/4-18 NPT	-3.0	TP.322	**SM41**	**S19**	1/16	**CK10**	**STC8**	5/32
1094888	**A24CTFPR4**	1.500	1.760	.890	14.00	.25	1/4-18 NPT	-3.0	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC8**	5/32
1094892	**A32CTFPR4**	2.000	2.400	1.281	16.00	.25	1/4-18 NPT	-3.0	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32
left hand															
1094875	**A08RCTFPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**—**	**—**	—	**CK27**	**STC27**	5/64
1094877	**A10CTFPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-4.0	TP.221	**—**	**—**	—	**CK19**	**STC9**	3/32
1094879	**A12SCTFPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**—**	**—**	—	**CK7**	**STC9**	3/32
1094889	**A24CTFPL4**	1.500	1.760	.890	14.00	—	1/4-18 NPT	-3.0	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC8**	5/32

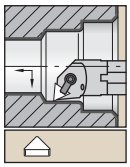


DeVibrator shank.

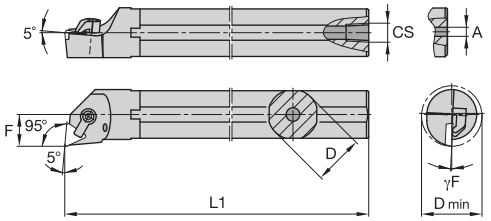


B-CTFP 0°

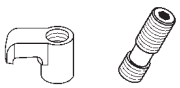
order number	catalog number	D	D min	F	L1	L1 min	γF°	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
1095829	**B10CTFPR2**	.625	.770	.406	10.00	5.25	.0	TP.221	—	—	—	**CK19**	**STC9**	3/32
1095830	**B12CTFPR3**	.750	.930	.500	10.00	5.75	.0	TP.322	—	—	—	**CK7**	**STC9**	3/32
1095831	**B14CTFPR3**	.875	1.060	.516	10.00	6.25	.0	TP.322	—	—	—	**CK20**	**STC11**	1/8
1095832	**B16CTFPR3**	1.000	1.200	.640	12.00	6.50	.0	TP.322	—	—	—	**CK20**	**STC11**	1/8
1095833	**B20CTFPR3**	1.250	1.470	.765	14.00	8.25	-3.0	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1095834	**B24CTFPR4**	1.500	1.760	.890	15.50	9.75	-3.0	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC8**	5/32
1095836	**B32CTFPR4**	2.000	2.400	1.281	21.50	12.25	-3.0	TP.432	**SM37**	**S125**	3/32	**CK9**	**STC4**	5/32



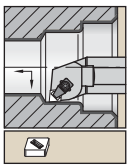
Steel shank with through coolant.



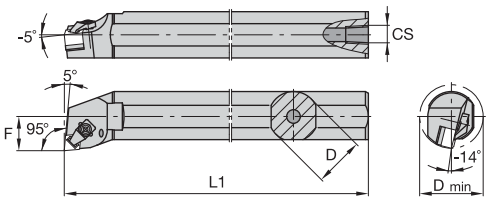
A-CTLP -5°



order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	clamp	clamp screw	hex
right hand												
1094904	**A06MCTLPR2**	.375	.480	.250	6.00	.13	—	-3.0	TP.2151	**CK27**	**STC27**	5/64
1094906	**A08RCTLPR2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**CK27**	**STC27**	5/64
1094908	**A12SCTLPR3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**CK7**	**STC9**	3/32
1094910	**A16CTLPR3**	1.000	1.220	.640	12.00	—	1/4-18 NPT	.0	TP.322	**CK20**	**STC11**	1/8
left hand												
1094907	**A08RCTLPL2**	.500	.600	.312	8.00	.16	1/16-27 NPT	-3.0	TP.221	**CK27**	**STC27**	5/64
3994022	**A10SCTLPL2**	.625	.770	.406	10.00	.16	1/8-27 NPT	-3.0	TP.221	**CK19**	**STC9**	3/32
1094909	**A12SCTLPL3**	.750	.930	.500	10.00	.16	1/8-27 NPT	.0	TP.322	**CK7**	**STC9**	3/32
1094863	**A16CTLPL3**	1.000	1.220	.640	12.00	—	1/4-18 NPT	.0	TP.322	**CK20**	**STC11**	1/8

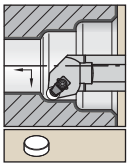


Steel shank with through coolant.

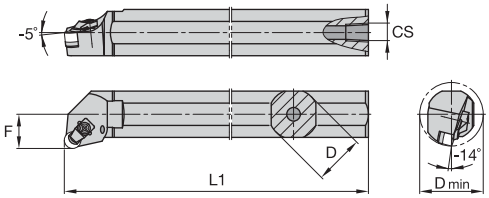


A-CCLN-MX -5°

order number	catalog number	D	D min	F	L1	CS	gage insert	shim	shim screw	Torx	clamp assembly	Torx
right hand												
1540531	**A24CCLNR4MX5**	1.500	2.165	.890	14.00	1/4-18 NPT	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25
1540552	**A32CCLNR4MX5**	2.000	2.323	1.281	16.00	1/4-18 NPT	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25
left hand												
1541742	**A24CCLNL4MX5**	1.500	2.165	.890	14.00	1/4-18 NPT	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25
1541743	**A32CCLNL4MX5**	2.000	2.323	1.281	16.00	1/4-18 NPT	CN.X452	**552.221**	**554.260**	T20	**551.326**	T25

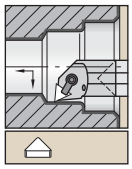


Steel shank with through coolant.

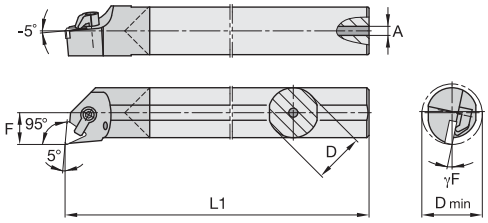


A-CRGN-MN

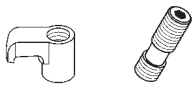
order number	catalog number	D	D min	F	L1	CS	gage insert	shim	shim screw	Torx	clamp assembly	Torx
right hand												
1558021	**A32CRGNR4MN5**	2.000	2.559	1.281	16.00	1/4-18 NPT	RN.45	**552.230**	**554.260**	T20	**551.343**	T25



Carbide shank with through coolant.

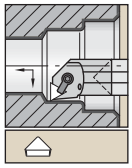


E-CTLN-5°

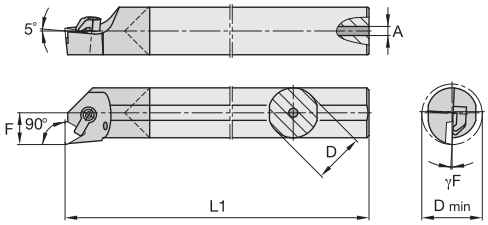


order number	catalog number	D	D min	F	L1	A	gage insert	clamp	clamp screw	hex
right hand										
1152668	**E12CTLNR2**	.750	.930	.500	10.00	.28	TN.221	**CK7LP**	**STC9**	3/32

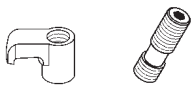
Kendex Positive Inserts



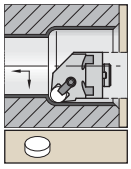
Carbide shank with through coolant.



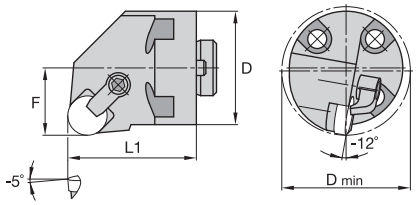
E-CTFP 0°



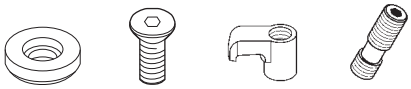
order number	catalog number	D	D min	F	L1	A	γF°	gage insert	clamp	clamp screw	hex
right hand											
1152584	**E08KCTFPR2**	.500	.600	.312	5.00	.19	-3.0	TP.221	**CK27**	**STC27**	5/64
1152586	**E08RCTFPR2**	.500	.600	.312	8.00	.19	-3.0	TP.221	**CK27**	**STC27**	5/64
1152588	**E10MCTFPR2**	.625	.770	.406	6.00	.22	.0	TP.221	**CK19**	**STC9**	3/32
1152590	**E10SCTFPR2**	.625	.770	.406	10.00	.22	.0	TP.221	**CK19**	**STC9**	3/32
1152592	**E12QCTFPR3**	.750	.930	.500	7.00	.28	.0	TP.322	**CK7**	**STC9**	3/32
1152594	**E12SCTFPR3**	.750	.930	.500	10.00	.28	.0	TP.322	**CK7**	**STC9**	3/32
1152598	**E16TCTFPR3**	1.000	1.200	.640	12.00	.31	.0	TP.322	**CK20**	**STC11**	1/8
left hand											
1152593	**E12QCTFPL3**	.750	.930	.500	7.00	.28	.0	TP.322	**CK7**	**STC9**	3/32
1152595	**E12SCTFPL3**	.750	.930	.500	10.00	.28	.0	TP.322	**CK7**	**STC9**	3/32



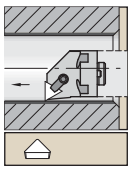
With through coolant.



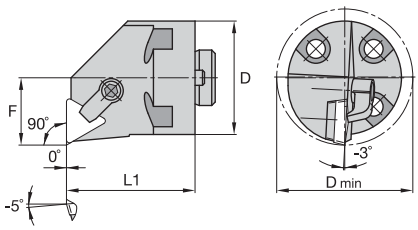
H-CRGN



order number	catalog number	D	D min	F	L1	gage insert	shim	shim screw	clamp	clamp screw	hex
right hand											
1095001	**H24CRGNR4**	1.500	1.760	.890	1.63	RN.42	**SM437**	**SL344**	**CK7LP**	**STC9**	3/32
1095003	**H32CRGNR4**	2.000	2.400	1.281	1.63	RN.42	**SM437**	**SL344**	**CK7LP**	**STC9**	3/32

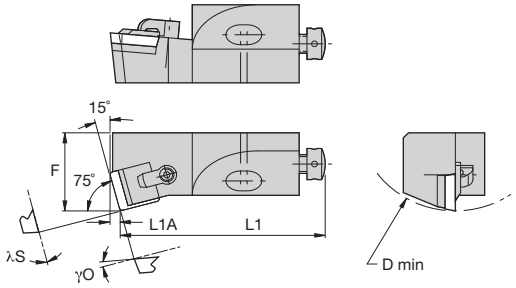


With through coolant.



H-CTFP 0°

order number	catalog number	D	D min	F	L1	gage insert	shim	shim screw	hex	clamp	clamp screw	hex
right hand												
1095321	**H20CTFPR3W**	1.250	1.470	.765	1.63	TP.322	**SM41**	**S111**	1/16	**CK10**	**STC8**	5/32
1095542	**H40CTFPR4W**	2.500	3.030	1.531	1.63	TP.432	**SM37**	**S125**	3/32	**CK10**	**STC4**	5/32

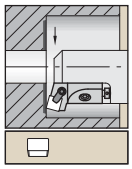


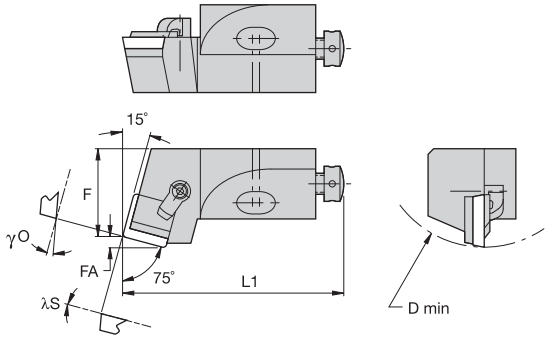
CSKP 15°

order number	catalog number	D min	F	L1	L1A	λS°	γO°	gage insert
right hand								
1261328	**CSKPR12CA4**	1.969	.787	2.17	.12	.0	5.0	SP..120308/SP..422

Spare Parts

D min	shim	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	—	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**



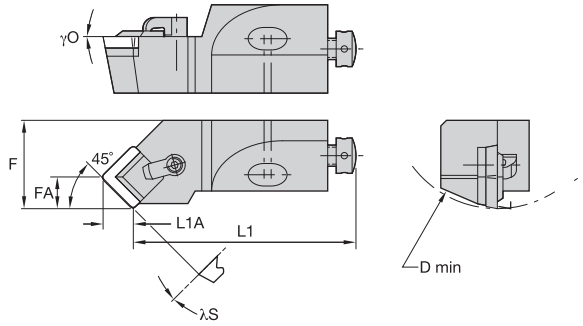


CSRP -15°

order number	catalog number	D min	F	FA	L1	λS°	γO°	gage insert
right hand								
3331132	**CSRPR10CA3**	1.575	.551	.087	1.97	.0	.0	SP..090308/SP..322

Spare Parts

D min	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**



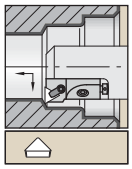
CSSP 45°

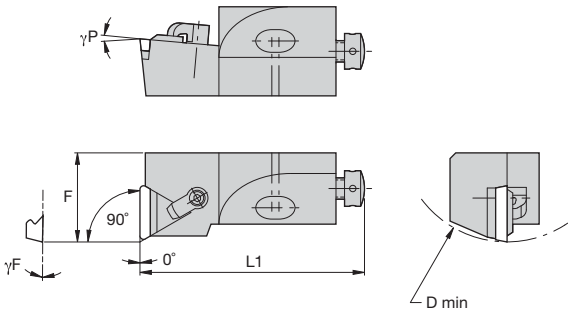
order number	catalog number	D min	F	FA	L1	L1A	λS°	γO°	gage insert
right hand									
1261379	**CSSPR10CA3**	1.575	.551	.254	1.73	.24	.0	.0	SP..090308/SP..322
left hand									
3331143	**CSSPL10CA3**	1.575	.551	.254	1.73	.24	.0	.0	SP..090308/SP..322

NOTE: Select spare parts based off of D min and insert size selected.

Spare Parts

D min	shim	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.575	—	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**

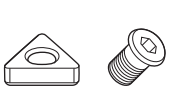




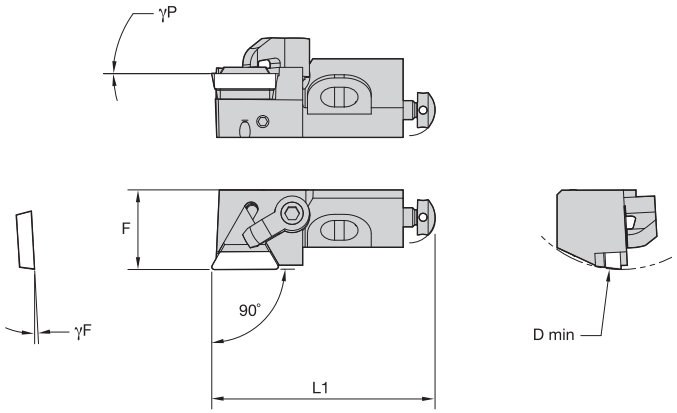
CTFP 0°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
2116588	**CTFPR10CA2**	1.575	.551	1.97	.0	5.0	TP..110304/TP..221
1746442	**CTFPR12CA3**	1.969	.787	2.17	.0	5.0	TP..160308/TP..322
2582207	**CTFPR20CA4**	2.756	.984	2.76	.0	5.0	TP..220408/TP..432
left hand							
2114034	**CTFPL10CA2**	1.575	.551	1.97	.0	5.0	TP..110304/TP..221

Spare Parts



D min	shim	shim screw	hex	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	mounting screw	hex	washer
1.575	**–**	**–**	–	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
1.969	**–**	**–**	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**
2.756	**SM837**	**MS125**	2.5 mm	**CKM35**	**STCM8**	4 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**



CTGP 0°

order number	catalog number	D min	F	L1	γF°	γP°	gage insert
right hand							
3330191	**CTGPR12CA3**	1.969	.787	2.17	3.0	.0	TP..160308/TP..322

Spare Parts

D min	shim	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	mounting screw	hex	washer
1.969	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**

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kennametal.com

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Whether your operation is turning, milling, or holemaking, Kennametal brands are the high-performance tooling you need. We offer standard and custom solutions for a wide range of applications.

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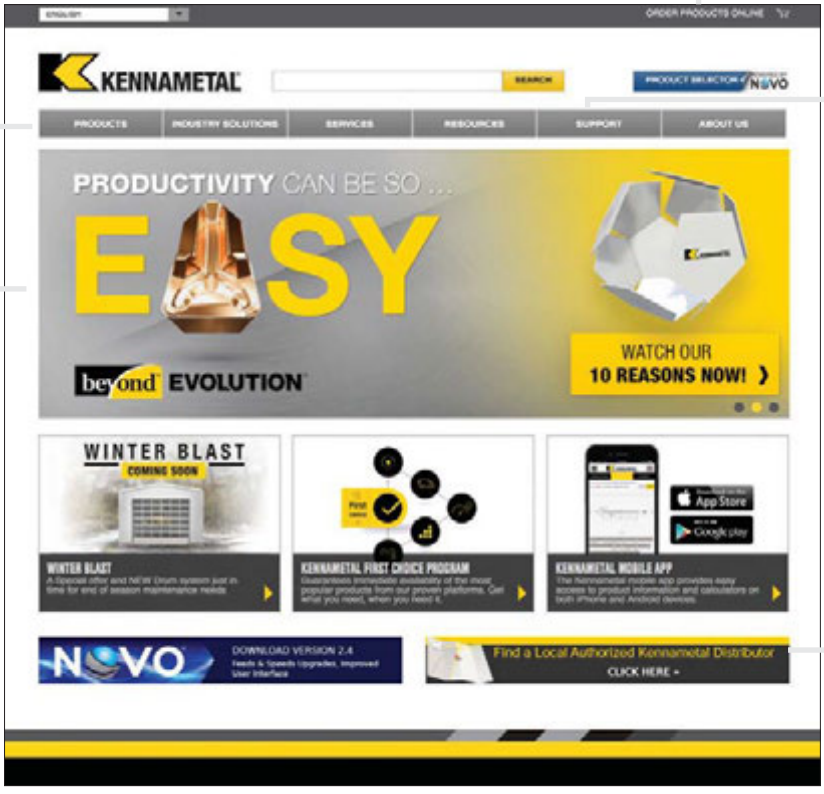

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Our customers are important to us. We want to provide you the best customer service in the industry. If you have a comment or question, please send it to us. We strive to respond to all inquiries within 24 hours.

FIND A LOCAL AUTHORIZED DISTRIBUTOR IN YOUR AREA

Kennametal offers world-class products and services globally. Our distributors know us, and more importantly, they know you. They know better than anyone in the industry how to put the global power of Kennametal to work for you — in your industry, in your region, and for your business.

Tunable Boring Bars

With Front End KM™ Quick-Change Adapter

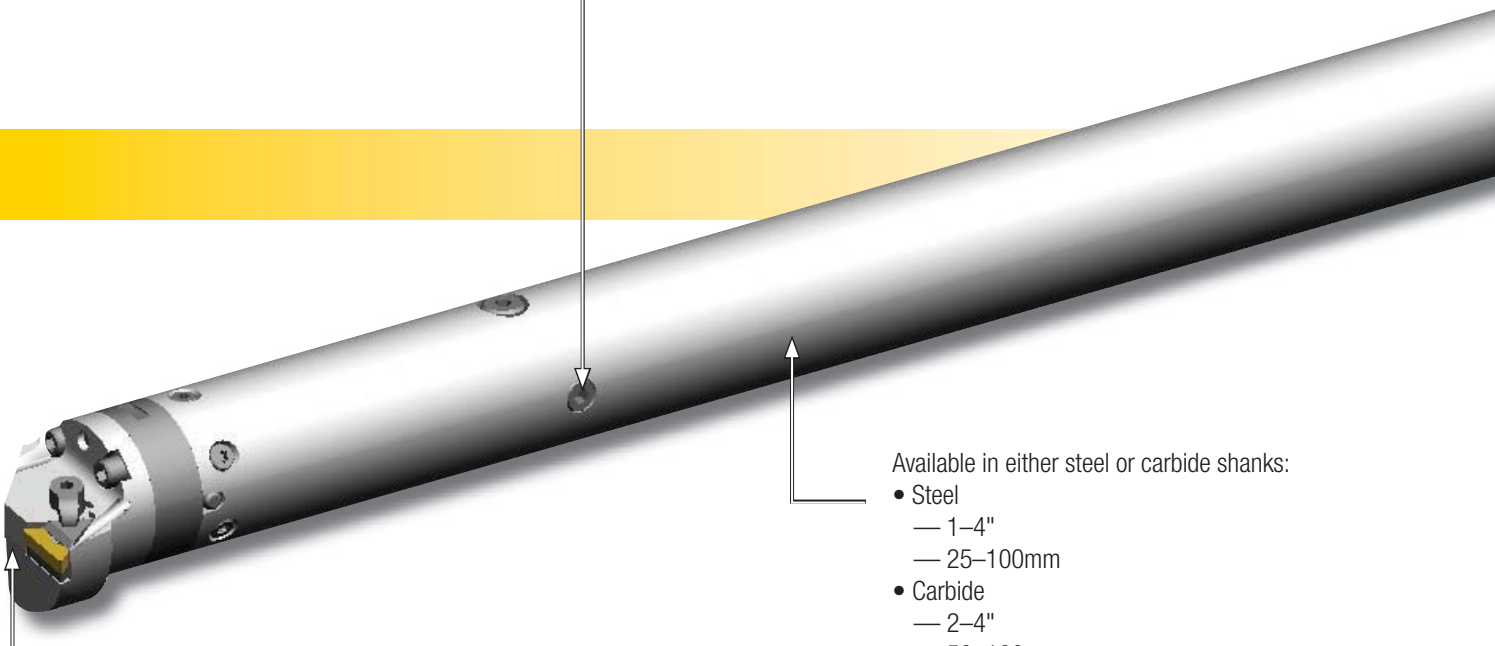
Kennametal offers a portfolio of tunable boring bars to increase productivity and solve chatter and other issues in long-boring operations.

Features, Functions, and Benefits

Features	Functions	Benefits
Robust internal clamping package	• Eliminates chatter and vibration. • Higher metal removal rate. • Larger depths of cut.	• High surface quality. • Low scrap rate. • Increased productivity. • Reduced noise exposure.
Tunable clamping mechanism	Bar can be tuned on the machine with just the turn of a screw.	Optimized damping characteristics for all kinds of machining conditions.
KM Quick-Change front end adapter	• Ridged clamping system. • Wide selection of KM Quick-Change cutting units.	Flexible system reduces tooling inventory and setup times.

Kennametal has made several key improvements to our current tunable boring bar portfolio:

- Enhanced standardized tuning process at the manufacturing plant ensures bars are accurately tuned at the maximum overhang.
- Nitriding of steel tunable boring bars to eliminate the effects of chip wash.
- Elimination of flats on tunable boring bars enhances stability and promotes proper toolholding.
- Addition of a small flat on the connection collar enables the use of a center-height tool.
- Enhanced assembly process.



Adjustment screw to allow for on-machine tuning. Allows each bar to be setup for the specific operation.

Available in either steel or carbide shanks:

- Steel
  - — 1–4"
  - — 25–100mm
- Carbide
  - — 2–4"
  - — 50–100mm

Comprehensive offering of Bolt-On Heads or KM™ Quick-Change cutting units. See the Kennametal Tooling Systems Catalog (A-12-02809) for KM adapters.

Appearance of the Tunable Boring Bars

- NEW All tunable boring bars are tuned at the manufacturing plant and delivered to the customer with the tune specified at the maximum overhang of the bar.
- NEW All steel tunable bars undergo a nitriding process to help prevent chip wash damage to the bar and extend the bar's tool life.
- The nitride process of the black oxide steel tunable boring bars gives the shanks a bluish tint. These bars are through-coolant capable and use bolt-on heads or KM™ Quick-Change cutting adapters. There is a set screw to tune the bar.
- Tunable boring bars with carbide shanks will appear gray in color. They are through-coolant capable and use KM Quick-Change cutting adapters. There is a set screw to tune the bar.

Application Recommendations

- Choose a boring bar as big as possible, but make sure there is adequate space for the chip evacuation.
- Balance the machining settings to avoid uncontrollable vibrations.
- Keep the L/D ratio as small as possible.
- Bar comes pre-tuned, but can be adjusted by hand.

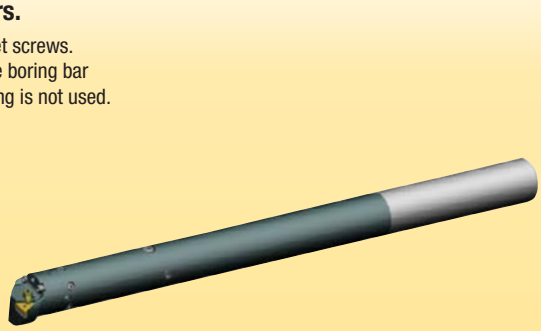
1 Holding the Bar

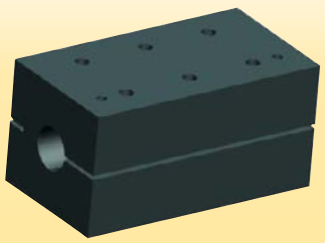
- Hold the bar correctly. Kennametal recommends holding the bar at 4 x D.

2 Kennametal recommends holding the boring bar in a split-style holder, with a split-style reducer if needed, with an ISO H7 diametral tolerance.

3 NEW: All flats have been removed from steel tunable boring bars.

- Do not clamp the bars with set screws.
- Kennametal cannot guarantee boring bar performance if proper clamping is not used.



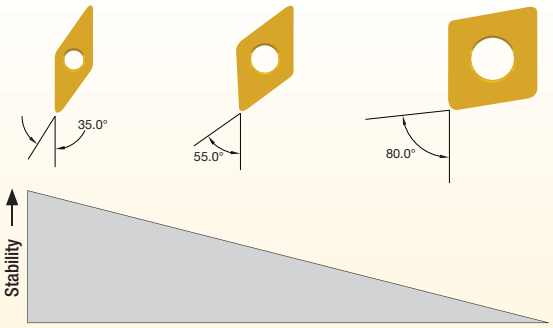


4 Tunable boring bars are designed and pre-tuned at the maximum overhang.

- Steel bars: pre-tuned to 10 x D; use as low as 6 x D.
- Carbide composite bars: pre-tuned to 15 x D; use as low as 12 x D.
- Re-tuning may be necessary if the boring bar is not used at its pre-tuned overhang.
- Never clamp or use the boring bar below its minimum overhang.

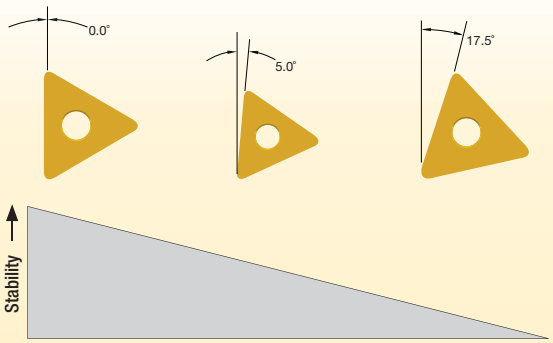
5 Insert Angle

- Smaller point angles produce consistent chip sizes and increase bore clearance for better chip evacuation.
- Larger point angles may cause rubbing due to larger cutting edge, which can result in vibration.



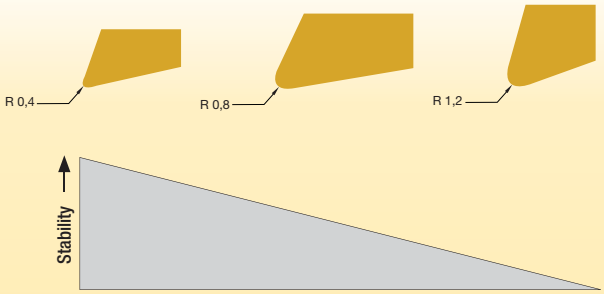
6 Lead Angle

- Choose a lead angle as close to 0º as possible for increased stability.



7 Nose Radius

- Choose a small nose radius for better stability.
- Depth of cut should be larger than the nose radius.



8 Insert Geometries

- Use positive, free-flowing insert geometries and sharp edge preps to reduce cutting forces.
- Use PVD inserts as a first choice because thinner coating keeps edge prep smaller.

9 Center Cutting Height

- Cutting height tolerances are +/-.005".
- Kennametal recommends using our new center height alignment tool kit. The kit includes a magnet, a seat, and an angle finder that can be mounted onto a small flat located on the connection collar of the tunable boring bar.

10 Chip Evacuation

- Chip packing and re-cutting can cause unwanted vibration while boring.
- Use coolant to flush out chips and to keep the damping element cool.
- Use insert geometries and cutting parameters that produce small chips.
- The boring bar can be used upside down to improve chip evacuation.

Tuning Recommendations

- Loosen the two locking screws on the bar.
- Turn the adjusting screw clockwise until the screw stops turning freely and the mass is in the locked-down position.
- You are now ready to tune the bar.
- Turn the adjusting screw in the counter-clockwise direction in quarter turn increments to adjust.
- After the adjustment has been completed, tighten the locking screws.

Kennametal Tunable Boring Bar Center Height Alignment Procedure

The following procedure will walk the user through setting up a tunable boring bar on center without the use of flats on the shank.

Equipment

- Digital angle finder
- Angle finder seat
- Boring bar to be used

Figure 1: Angle finder seat (left) and digital angle finder (right)

Assembly

- Clean any dirt, chips, debris, etc. from the mounting surfaces of the digital angle finder and the corresponding surfaces of the angle finder seat.
- Assemble the digital angle finder onto the angle finder seat, making sure it is flush against the back of the angle finder seat.

Calibration

- Clean an area on the X-axis of the lathe to create a reference surface for calibration.
- Clean any dirt, chips, debris, etc. from the magnet on the bottom of the angle finder seat.
- Place the angle finder assembly onto the X-axis of the lathe.
  - — Keep the angle finder assembly parallel to the axis.
  - — It is helpful to butt the assembly up against the turret housing to keep it parallel to the X-axis.
- Turn the digital angle finder on by pressing the on/off button.
- Zero the digital angle finder by pressing the zero button.

NOTE: The angle finder is now calibrated to the X-axis of the lathe and will measure angles corresponding to this axis.

Figure 2: X-axis calibration

Boring Bar Alignment

- With the boring bar already placed in the holder and set to the correct overhang, clean any dirt, chips, debris, etc. from the small flat on the collar of the boring bar.
- Place the angle finder assembly onto the boring bar by aligning the small magnet on the bottom of the assembly with the small flat on the collar of the boring bar.
  - — Be sure the angle finder assembly is perpendicular to the axis of the boring bar.
  - — Be sure the angle finder assembly is oriented in the same direction it was when it was calibrated to the X-axis of the lathe.

Figure 3: Boring bar collar flat

- Rotate the boring bar until the digital angle finder reads zero degrees.

Figure 4: Aligning the boring bar

- Tighten the boring bar holder to lock the boring bar position.
  - — Be sure the digital angle finder still reads zero after clamping the bar.
- The boring bar should now be on center.

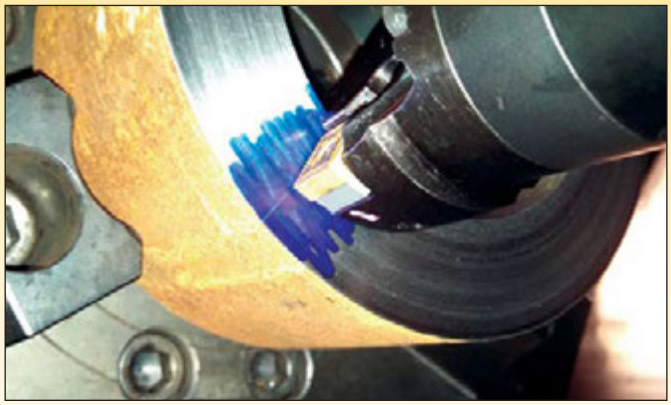
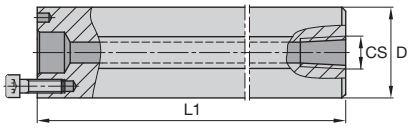


Figure 5: Boring bar center height

Order the Kennametal Center Height Alignment Tool Kit

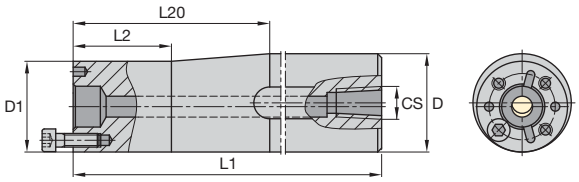
The center height alignment tool kit is available to order. Use order number 6141867, or catalog number KIT-BB-AF.



Steel shank with through coolant.
Max 4:1 overhang ratio.

S-4400W

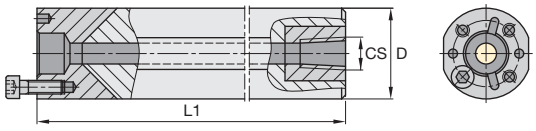
order number	catalog number	D	L1	CS	screw 3 required	screw	hex
1094941	**S4416W**	1.000	9.00	1/4-18 NPT	**S319PKG**	**S322**	9/64
1094942	**S4420W**	1.250	9.00	1/4-18 NPT	**S327**	**S330**	5/32
1094943	**S4424W**	1.500	10.00	1/4-18 NPT	**S327**	**S330**	5/32
1094944	**S4428W**	1.750	12.00	1/4-18 NPT	**S337**	**S340**	3/16
1094945	**S4432W**	2.000	13.00	1/4-18 NPT	**S337**	**S340**	3/16
1080487	**S4440W**	2.500	17.00	1/4-18 NPT	**S350**	**S353**	1/4



Steel shank with through coolant.
Max 4:1 overhang ratio.

S-4400W48

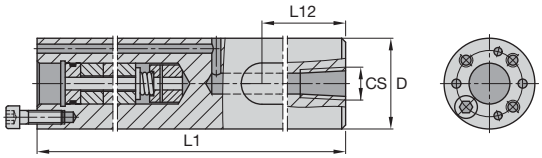
order number	catalog number	D	L1	CS	L2	L20	D1	screw 3 required	screw	hex
1094947	**S4440W48**	3.000	18.00	3/8-18 NPT	3.00	6.00	2.50	**S350**	**S353**	1/4



Carbide shank with through coolant.
Max 6:1 overhang ratio.

C-11800W

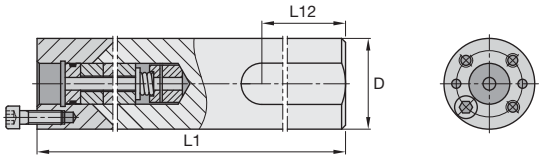
order number	catalog number	D	L1	CS	screw 3 required	screw	hex
1152783	**C11816W**	1.000	11.00	1/4-18 NPT	**S319PKG**	**S322**	9/64
1152784	**C11820W**	1.250	11.00	1/4-18 NPT	**S412**	**S415**	5/32



Steel shank DeVibrator with through coolant.
Max 6:1 overhang ratio.

D-5400W

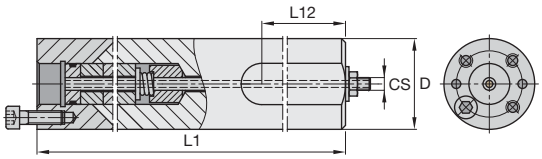
order number	catalog number	D	L1	CS	L12	L1 min	screw 3 required	screw	hex
1095839	**D5420W**	1.250	10.00	3/8-18 NPT	7.75	7.00	**S327**	**S330**	5/32
1095840	**D5424W**	1.500	12.00	3/8-18 NPT	9.25	8.00	**S327**	**S330**	5/32
1095841	**D5428W**	1.750	14.00	3/8-18 NPT	10.12	9.00	**S337**	**S340**	3/16
1095842	**D5432W**	2.000	16.00	3/8-18 NPT	12.75	10.00	**S337**	**S340**	3/16
1095844	**D5440W**	2.500	20.00	3/8-18 NPT	14.87	12.00	**S350**	**S353**	1/4



Carbide shank DeVibrator without through coolant.
Max 8:1 overhang ratio.

C-6400

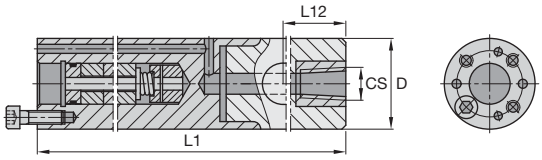
order number	catalog number	D	L1	L12	L1 min	screw 3 required	screw	hex
1152790	**C6420**	1.250	11.00	8.75	7.00	**S412**	**S415**	5/32



Carbide shank DeVibrator with through coolant.
Max 8:1 overhang ratio.

C-6400W

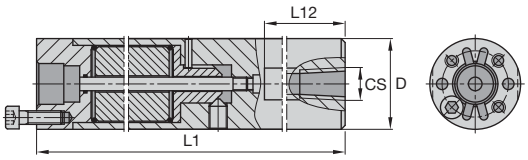
order number	catalog number	D	L1	CS	L12	L1 min	screw 3 required	screw	hex
1152777	**C6420W**	1.250	11.00	1/4-28 UNF	8.75	7.00	**S412**	**S415**	5/32
1152778	**C6424W**	1.500	14.00	1/4-28 UNF	11.25	8.00	**S412**	**S415**	5/32
1152779	**C6428W**	1.750	16.00	3/8-24UNF	11.38	9.00	**S422**	**S425**	3/16
1152780	**C6432W**	2.000	19.00	3/8-24UNF	15.75	10.00	**S422**	**S425**	3/16
1152782	**C6440W**	2.500	24.00	3/8-24UNF	18.00	12.00	**S432**	**S435**	1/4



Composite shank DeVibrator with through coolant.
Max 10:1 overhang ratio.

C-11900W

order number	catalog number	D	L1	CS	L12	screw 3 required	screw	hex
1152787	**C11932W**	2.000	20.00	3/8-18 NPT	9.75	**S337**	**S340**	3/16
1152789	**C11940W**	2.500	25.00	3/8-18 NPT	11.75	**S350**	**S353**	1/4

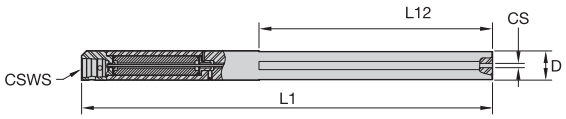


Tunable steel shank with through coolant.

D...TTB • Inch

order number	catalog number	D	L1	CS	L12	L1 min	screw 3 required	screw	hex
1091551	**D16TTB16**	1.000	15.00	1/4-18 NPT	8.00	9.09	**S316**	**S321**	9/64
1085914	**D20TTB18**	1.250	16.13	1/4-18 NPT	10.00	9.59	**S325**	**S329**	5/32
1082075	**D24TTB21**	1.500	19.38	1/4-18 NPT	12.00	11.04	**S327**	**S330**	5/32
1086694	**D28TTB25**	1.750	23.38	1/4-18 NPT	15.75	12.35	**S337**	**S340**	3/16
1024853	**D32TTB28**	2.000	26.37	1/4-18 NPT	18.50	12.27	**S337**	**S340**	3/16
1091555	**D40TTB35**	2.500	33.38	1/4-18 NPT	24.75	14.88	**S350**	**S353**	1/4
1309256	**D48TTB42**	3.000	40.37	1/4-18 NPT	24.00	20.00	**S350**	**S353**	1/4
1909159	**D64TTB56**	4.000	54.48	3/8-18 NPT	20.00	25.76	**S350**	**S353**	1/4

NOTE: Order number 1309256 and order number 1909159 use 2.5" diameter heads.

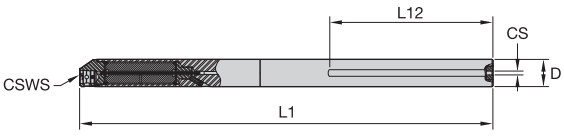


Tunable steel shank with through coolant and front end KM™ clamping unit.

KM QUICK CHANGE

D...TTB-KM • Inch

order number	catalog number	D	L1	CS	L12	L1 min	CSWS system size
3637915	**D28TTB26KM40**	1.750	24.44	1/4-18 NPT	15.75	13.50	KM40
3637916	**D32TTB29KM40**	2.000	27.44	1/4-18 NPT	18.50	13.38	KM40
3637917	**D40TTB36KM40**	2.500	34.45	1/4-18 NPT	24.75	16.00	KM40
3638033	**D48TTB45KM63**	3.000	42.23	1/4-18 NPT	24.00	21.70	KM63
3638034	**D64TTB58KM63**	4.000	56.24	3/8-18 NPT	20.00	27.62	KM63



Carbide tunable boring bar with KM™ Quick-Change connection.

KM QUICK CHANGE

G-TTB-KM • Inch

order number	catalog number	D	L1	CS	L12	CSWS system size
3954294	**G32TTB41KM40**	2.000	39.45	3/8-18 NPT	12.00	KM40
3954295	**G40TTB51KM40**	2.500	49.45	3/8-18 NPT	15.00	KM40
3954296	**G48TTB63KM63**	3.000	58.56	3/8-18 NPT	18.00	KM63

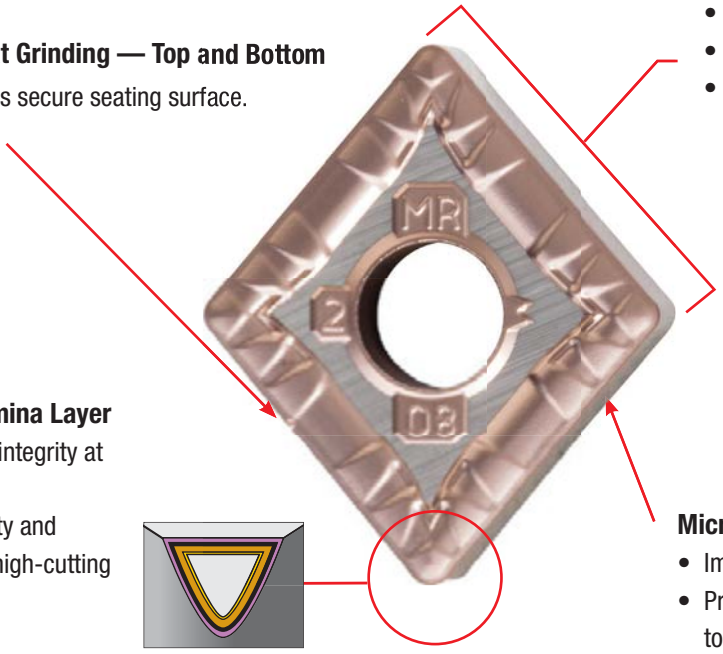
Beyond™ Drive™ Inserts

- Designed for increased productivity.
- Post-coat treatment reduces stress, improves coating adhesion.
- Excellent toughness and wear resistance.
- Better insert wear detection.

beyond™ DRIVE™

Post-Coat Treatment
- Improves edge toughness.
- Long predictable tool life.
- Reduces depth-of-cut notching.
- Wide range of applications.

Post-Coat Grinding — Top and Bottom
- Provides secure seating surface.



Fine-Grained Alumina Layer
- Provides coating integrity at elevated speeds.
- Higher productivity and dependability at high-cutting temperatures.

TiN/MT-TiCN/TiCN/Al_2O_3/TiOCN

Micro-Polished Edges
- Improves edge toughness.
- Provides smooth outer surface to reduce forces, friction, and workpiece sticking.

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Grooving and Cut-Off

Beyond Evolution • Grooving, Turning, and Cut-Off C2–C85

Application Guidelines C84–C85

A4 Groove and Turn C86–C151

Top Notch • Shallow Grooving C152–C204

Application Guidelines C197–C204

Getting started made **EASY**

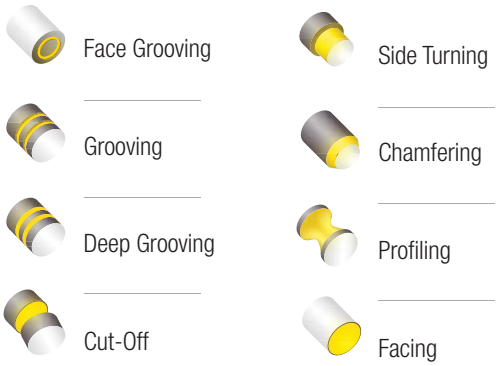
beyond™ EVOLUTION™

Your day made **EASY**

Choosing the right tooling can be complicated and time-consuming. Built on simplicity, we have engineered a new tool that makes every machine operator's life EASY.

Unwilling to sacrifice performance or applications, Kennametal introduces Beyond™ Evolution™.

Beyond™ Evolution™ is the new single-side grooving and cut-off tool that also performs multi-directional turning.

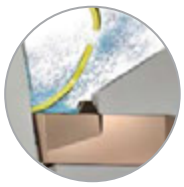


Productivity made **EASY**

Active Coolant Control

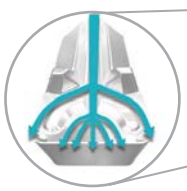
If your coolant delivery is typical to the market, you may be applying more heat to the cutting edge than you think. This reduces tool life and increases cycle time.

With Beyond™ Evolution™, you won't have to change your existing equipment. Whether you are using a high-pressure or low-pressure coolant supply, Beyond™ Evolution™, featuring Active Coolant Control, delivers more tool life and higher Metal Removal Rates (MRR).



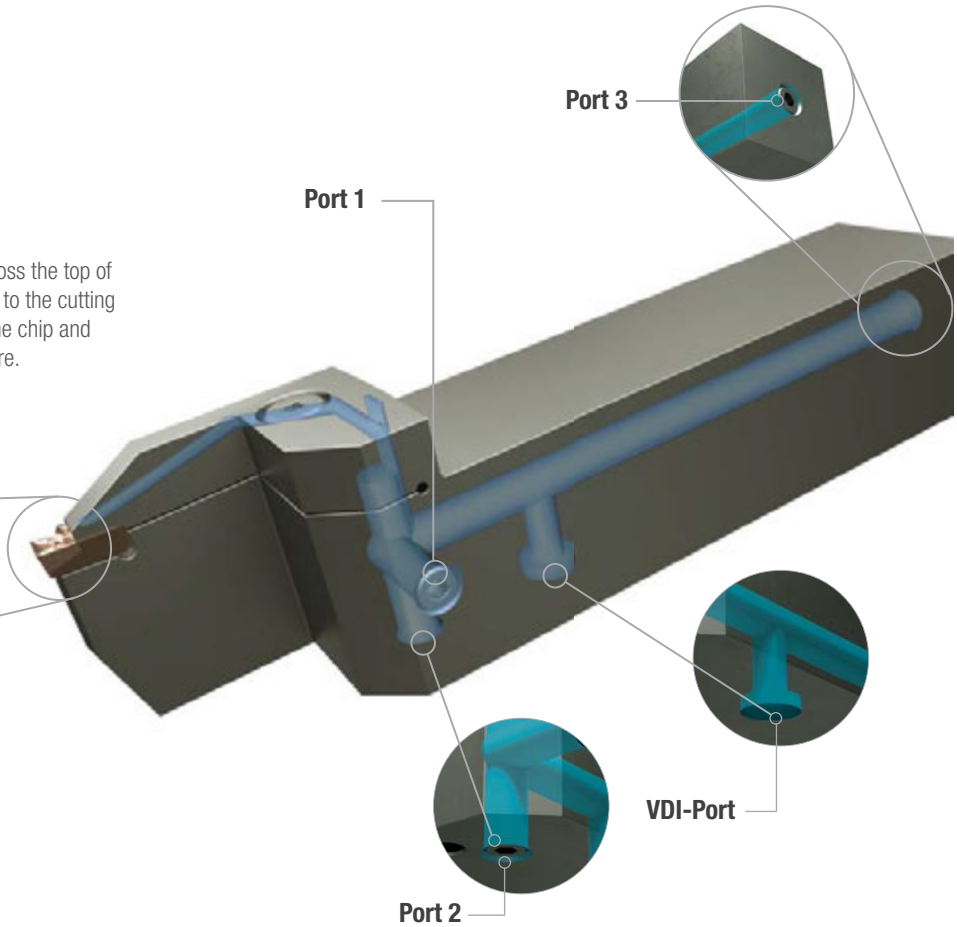
Fan Effect

Directs coolant across the top of the insert precisely to the cutting zone underneath the chip and controls temperature.



Chipbreaking Effect

Improve chip control in all grooving, cut-off, and multi-directional turning applications.



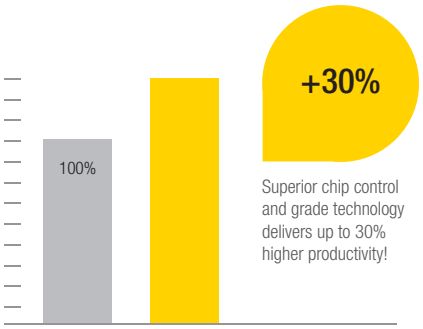
Smooth surface finish made **EASY**

Triple-V Seating

Problem: Traditional single-sided grooving and cut-off systems cannot deliver smooth surface finish due to lack of stability.

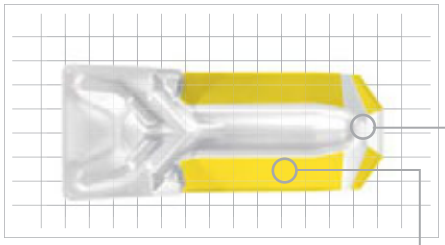
Solution: The Beyond™ Evolution™ proprietary new Triple-V Seating feature provides functional stability and minimizes vibration.

Three contact surfaces provide unmatched stability: When combined with GUP and CF chipbreakers, Triple-V Seating provides excellent surface finish.



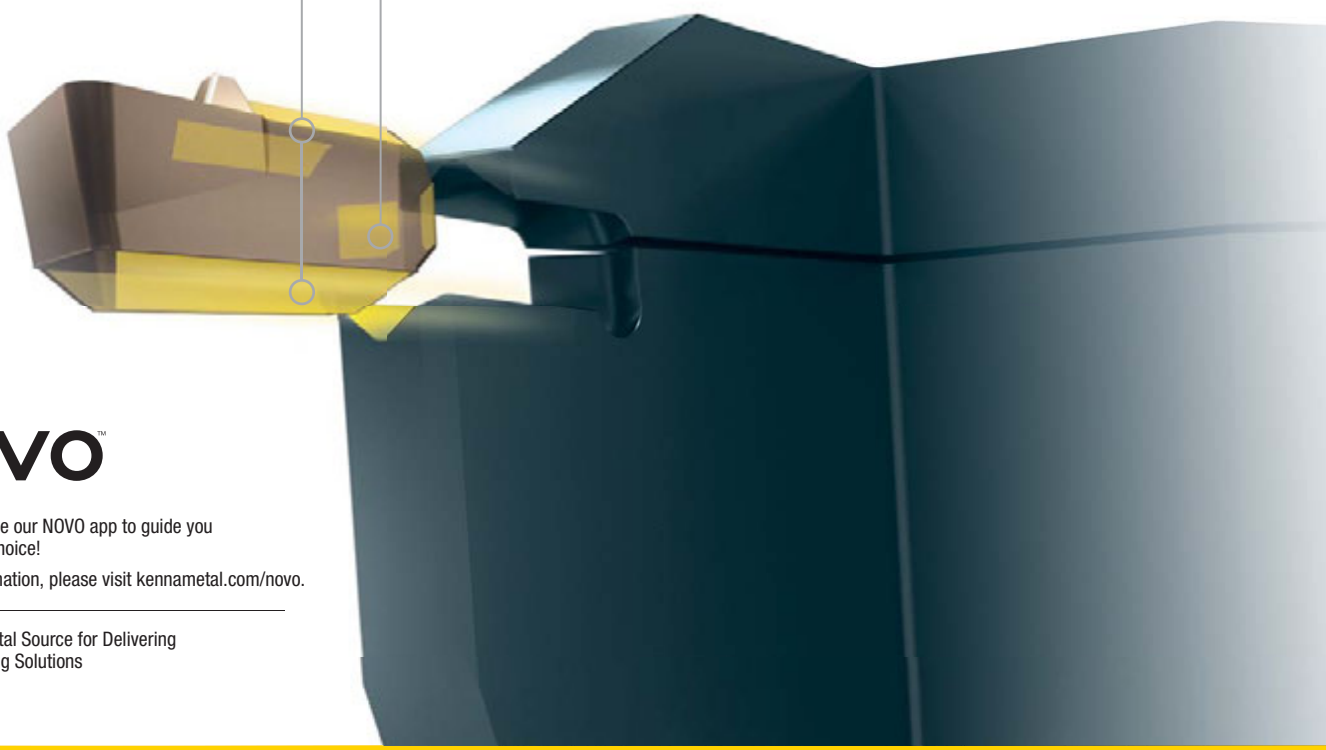
Saving money made EASY

Beyond™ Evolution™, featuring Active Coolant Control, Triple-V Seating, and Beyond™ Drive™ grades with Wear Detection Technology, provides longer tool life, maximum stability, and higher Metal Removal Rates (MRR), resulting in up to 30% higher productivity.



V-Back Design
Unsurpassed grooving, cut-off, and multi-directional turning load stability.

Top and Bottom-V
Precise and secure insert positioning for increased rigidity and dimensional accuracy.



NOVO™

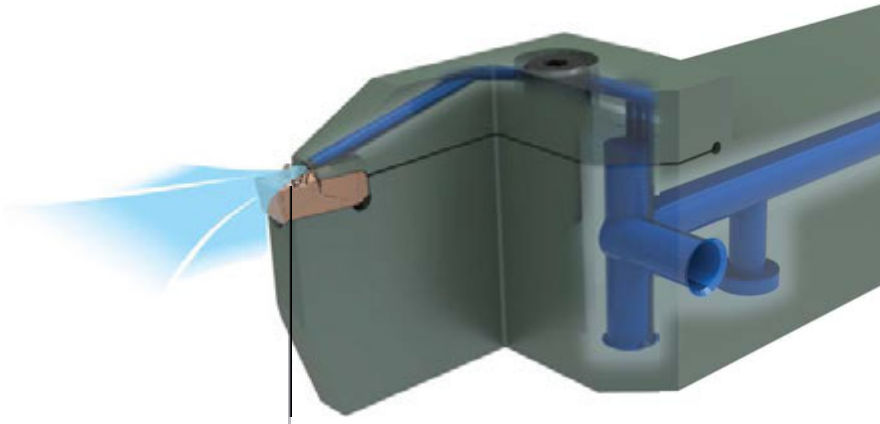
You can also use our NOVO app to guide you to the correct choice!

For more information, please visit kennametal.com/novo.

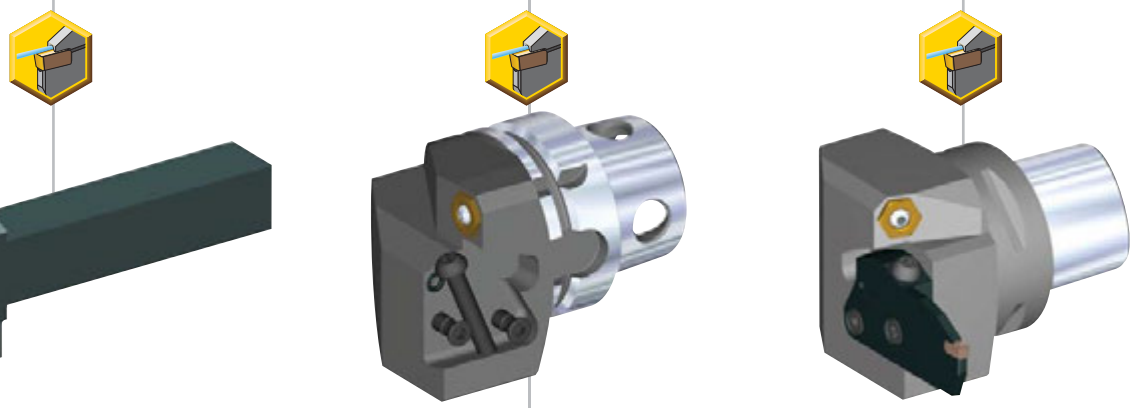
NOVO: The Digital Source for Delivering Smart Machining Solutions

Your day made **EASY** —

Efficient coolant delivery. Available in seat sizes 3 and higher.

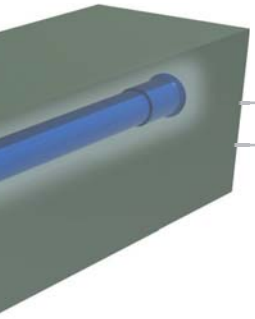


Modular with through coolant



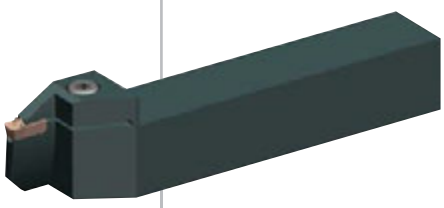
beyond™ EVOLUTION™

high-performance system.

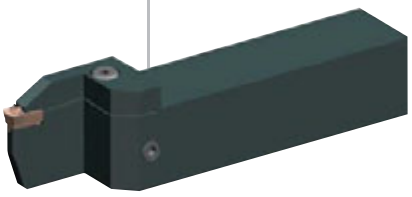


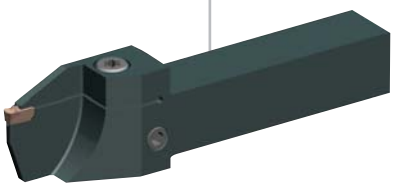
Face grooving
with through coolant

I.D. Boring Bar

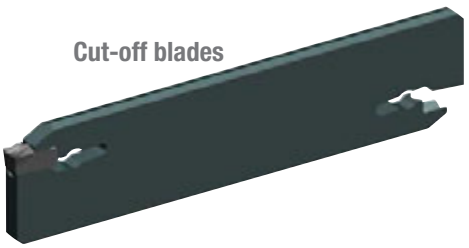


Square shank
with through coolant





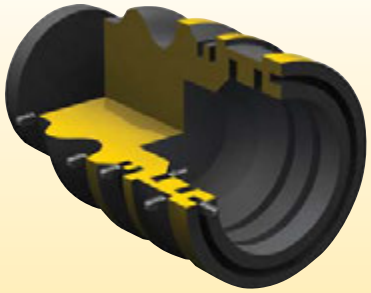
Cut-off blades



Step 1 • Identify your grooving or cut-off application

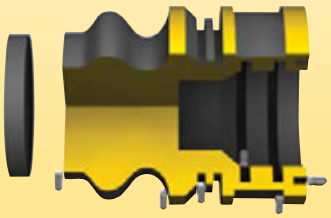
What you need to know:

- Groove depth, width, and profile.
- Material being machined.
- Application to be performed (O.D. and I.D. grooving, turning, face grooving, and cut-off).
- Shank size requirements of the machine.



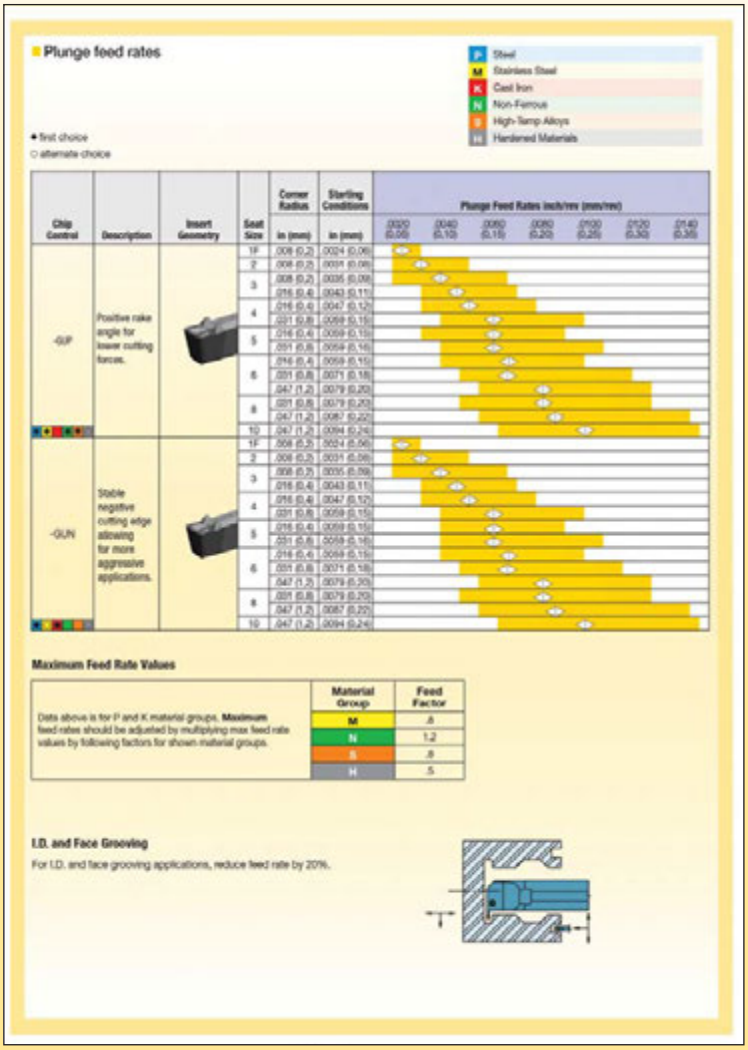
General Recommendation to Select the Insert Size

for workpiece diameters	insert seat size
<25mm	3
25–50mm	4
>50mm	5–10



Step 2 • Select chipbreaker style and feed rate

Based on the application and seat size, determine the recommended geometry and starting feed rate.



Plunge feed rates

P Steel
M Stainless Steel
K Cast Iron
N Non-Ferrous
S High-Temp Alloys
H Hardened Materials

• first choice
○ alternate choice

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius in (mm)	Starting Conditions in (mm)	Plunge Feed Rates inch/rev (mm/rev) .020 (0.05)	.040 (0.10)	.060 (0.15)	.080 (0.20)	.100 (0.25)	.120 (0.30)	.140 (0.35)
-GUP	Positive rake angle for lower cutting forces.		1F	.008 (0.2)	.0024 (0.06)	•						
			2	.008 (0.2)	.0031 (0.08)	•	○					
			3	.008 (0.2)	.0035 (0.09)	•	○					
				.016 (0.4)	.0043 (0.11)	•	○					
			4	.016 (0.4)	.0047 (0.12)	•	○					
				.031 (0.8)	.0059 (0.15)	○	•	○				
			5	.016 (0.4)	.0059 (0.15)	•	○					
				.031 (0.8)	.0059 (0.15)	○	•	○				
			6	.016 (0.4)	.0059 (0.15)	•	○					
				.031 (0.8)	.0071 (0.18)	○	•	○				
				.047 (1.2)	.0079 (0.20)		○	•	○			
			8	.031 (0.8)	.0079 (0.20)	○	•	○				
				.047 (1.2)	.0087 (0.22)		○	•	○			
			10	.047 (1.2)	.0094 (0.24)		○	•	○			
-GUN	Stable negative cutting edge allowing for more aggressive applications.		1F	.008 (0.2)	.0024 (0.06)	•						
			2	.008 (0.2)	.0031 (0.08)	•	○					
			3	.008 (0.2)	.0035 (0.09)	•	○					
				.016 (0.4)	.0043 (0.11)	•	○					
			4	.016 (0.4)	.0047 (0.12)	•	○					
				.031 (0.8)	.0059 (0.15)	○	•	○				
			5	.016 (0.4)	.0059 (0.15)	•	○					
				.031 (0.8)	.0059 (0.15)	○	•	○				
			6	.016 (0.4)	.0059 (0.15)	•	○					
				.031 (0.8)	.0071 (0.18)	○	•	○				
				.047 (1.2)	.0079 (0.20)		○	•	○			
			8	.031 (0.8)	.0079 (0.20)	○	•	○				
				.047 (1.2)	.0087 (0.22)		○	•	○			
			10	.047 (1.2)	.0094 (0.24)		○	•	○			

Maximum Feed Rate Values

Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.

Material Group	Feed Factor
M	.8
N	1.2
S	.8
H	.5

I.D. and Face Grooving

For I.D. and face grooving applications, reduce feed rate by 20%.

Step 3 • Select the starting speed

Based on material and grade, identify starting speed (vc). First choice is in **bold** type.

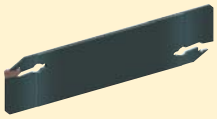
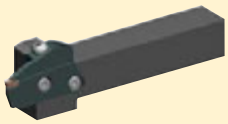
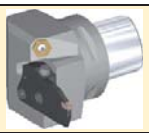
A Based on material group and grade, identify starting speed (vc).
B First choice starting speed is in **bold.**

Recommended Starting Speeds [SFM]

Material Group		KJ13			KCU10			KCU25			KCM35B			KCP10B			KCP25B			KCK20B			A
P	0–1	–	–	–	450	**925**	1180	360	**740**	880	290	**590**	700	600	**1320**	1475	475	**925**	1200	660	**1450**	1620	
	2	–	–	–	450	**650**	1000	360	**520**	880	290	**420**	510	600	**880**	1150	475	**650**	1000	660	**970**	1260	
	3	–	–	–	450	**510**	800	360	**410**	800	290	**330**	510	550	**630**	850	450	**510**	800	600	**700**	920	
	4	–	–	–	250	**360**	550	200	**290**	540	160	**230**	350	300	**480**	650	250	**360**	600	330	**530**	710	
	5	–	–	–	400	**660**	850	320	**530**	680	260	**420**	540	500	**720**	1000	400	**660**	875	550	**800**	1100	
	6	–	–	–	350	**500**	750	280	**400**	600	220	**320**	480	400	**600**	900	350	**500**	750	440	**660**	990	
M	1	200	**300**	400	450	**700**	940	300	**550**	800	250	**400**	450	–	–	–	–	–	–	–	–	–	
	2	150	**250**	350	400	**650**	800	300	**500**	800	250	**350**	450	–	–	–	–	–	B –	–	–	–	
	3	120	**220**	320	400	**600**	800	300	**450**	700	250	**300**	450	–	–	–	–	–	–	–	–	–	
K	1	100	**250**	400	400	**600**	800	320	**480**	760	–	–	–	560	**800**	1440	455	**650**	1170	700	**1000**	1800	
	2	75	**225**	350	300	**500**	800	240	**400**	560	–	–	–	400	**640**	1120	325	**520**	910	500	**800**	1400	
	3	65	**190**	300	200	**350**	500	160	**280**	400	–	–	–	400	**560**	880	325	**455**	715	500	**700**	1100	
N	1–2	500	**1200**	2000	500	**1800**	3200	400	**1440**	2560	–	–	–	–	–	–	–	–	–	–	–	–	
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
	4	400	**900**	1400	400	**1200**	2360	320	**960**	1600	–	–	–	–	–	–	–	–	–	–	–	–	
	5	150	**300**	500	300	**550**	800	240	**440**	640	–	–	–	–	–	–	–	–	–	–	–	–	

Step 4 • Select toolholder based on application

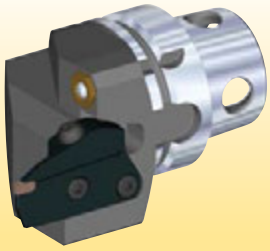
Choose the high-performance holder based on your specific grooving or cut-off application, with the corresponding seat size.

Style		Application
	Boring Bar	• For use in I.D. grooving applications.
	**Cut-Off Blade**	• Allows user to vary the depth of cut.
	Toolholder — Integral	• Offers the most stability over other styles.
	**Toolholder — Modular**	• Interchangeable blades for versatility.
	KM™ — Modular **KM4X™ — Modular**	• Best-in-class KM™ Quick-Change platform.
	**PSC — Modular**	• The modular system in the PSC Quick-Change platform.

Step 5 • Select the insert and holder from catalog page

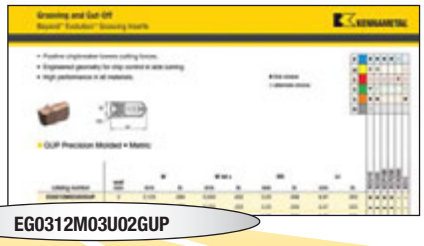
Congratulations!

You have successfully maximized your productivity by selecting the best insert geometry, grade, and cutting specifications for your application!



How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



EG0312M03U02GUP

E — Family Name

Beyond™ Evolution™

G — Insert Type

G = Square

R = Full Radius

0312 — Groove Width

Metric = 1/100 mm

Inch = 1/1000"

M — Unit

M = Metric

I = Inch

03 — Seat Size

seat size	groove width mm	groove width inch
1B	1,40	.055
1F	1,60–1,99	.063–.078
02	2,00–2,99	.079–.117
03	3,00–3,99	.118–.156
04	4,00–4,99	.157–.196
05	5,00–5,99	.197–.235
06	6,00–7,99	.236–.314
08	8,00–8,99	.315–.353
10	9,00–10,12	.354–.398

*.312" = seat size 08

U — Tolerance

U = Precision Molded

P = Precision Ground

02 — Corner Radius

mm	
00	full radius
01	0,1
02	0,2
04	0,4
08	0,8
12	1,2

inch	
00	full radius
05	.008
1	.016
2	.032
3	.047

GUP — Chipbreaker/ Edge Condition

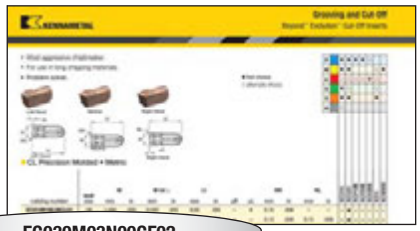
GUP = Groove-Turn Universal Positive

GUN = Groove-Turn Universal Negative

FB = Flat Top Blank

PB = Positive Chip Control Blank

By referencing this easy-to-use guide, you can identify the correct product to meet your needs.



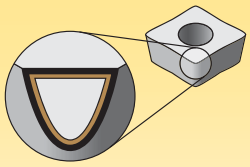
EC030M03N00CF02

E	C	030	M	03	N	00	CF	02
Family Name	Insert Type	Cutting Edge Width	Unit	Seat Size	Hand of Insert	Approach Angle	Chipbreaker	Corner Radius
Beyond™ Evolution™	**C** = Cut-Off		**M** = Metric **I** = Inch		**N** = Neutral **L** = Left hand **R** = Right hand	**00** = Neutral **06** = 6°	**CL** = Cut-Off Low Feed **CF** = Cut-Off Fine **CM** = Cut-Off Medium **CR** = Cut-Off Rough	

Cutting Edge Width	mm	inch
014	1,4	.055
020	2,0	.079
030	3,0	.118
040	4,0	.157
050	5,0	.197
060	6,0	.236
070	7,0	.279
080	8,0	.315

Seat Size	mm	inch
1B	1,4	.055
1F	2,0	.079
02	3,0	.118
03	4,0	.157
04	5,0	.197
05	6,0	.236
06	7,0	.279
08	8,0	.315

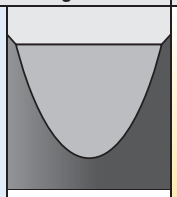
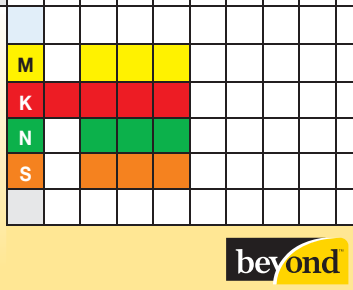
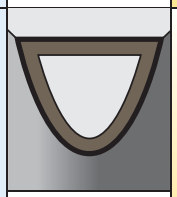
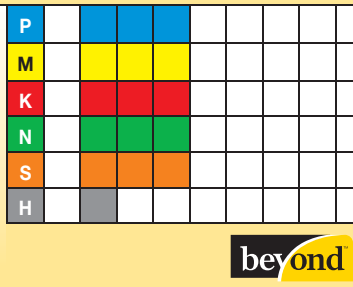
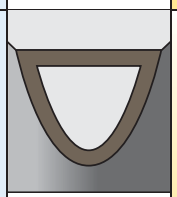
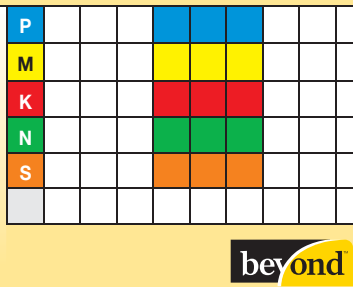
Corner Radius	mm	inch
01	0,1	.004
02	0,2	.008
04	0,4	.016

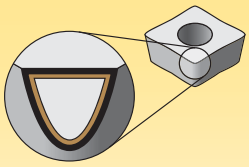


Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

Grades

Coating	Grade Description	wear resistance ← → toughness: 05 10 15 20 25 30 35 40 45
K313  —	**Composition:** A hard, low binder content, unalloyed WC/Co fine-grain grade. **Application:** Exceptional edge wear resistance combined with very high strength for machining titanium, cast irons, austenitic stainless steels, non-ferrous metals, non-metals, and most high-temp alloys. Superior thermal deformation and depth-of-cut notch resistance. The grain structure is well controlled for minimal pits and flaws, which contributes to long, reliable service.	
KCU10  —	**Composition:** An advanced multilayer PVD coating over a very deformation-resistant unalloyed carbide substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU10™ grade is ideal for finishing to general machining of most workpiece materials at a wide range of speed and feed capabilities. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and super alloys with improved edge toughness and higher cutting speed/feed capability.	
KCU25  —	**Composition:** An advanced PVD grade with hard AlTiN coating and fine-grain unalloyed substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU25™ grade is ideal for general machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials in a wide range of speeds and feeds with improved edge toughness for interrupted cuts and high feed rates.	



Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

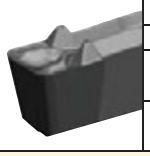
CVD-Coated Carbide Grades

Coating	Grade Description	wear resistance ← → toughness: 05 10 15 20 25 30 35 40 45
KCP10B	**Composition:** A specially engineered wear-resistant carbide grade with a newly designed multilayer MTCVD-TiCN-Al_2O_3-TiOCN coating with superior interlayer adhesion. **Application:** An excellent finishing to medium machining grade for a variety of workpiece materials, including most steels, ferritic, martensitic, and PH stainless steels, and cast irons. The cobalt-enriched substrate offers a balanced combination of deformation resistance and edge toughness, while the thick coating layers offer outstanding abrasion resistance and crater wear resistance for high-speed machining. Smooth coating provides resistance to edge build-up and microchipping and produces excellent surface finishes.	P: 10 15 20 K: 25 30 beyond DRIVE
KCP25B	**Composition:** A tough cobalt-enriched carbide grade with a newly designed multilayer MTCVD-TiCN-Al_2O_3-TiOCN coating with superior interlayer adhesion. **Application:** Best general-purpose turning grade for most steels and ferritic and martensitic stainless steels. The substrate design ensures adequate deformation resistance with excellent insert edge strength. Coating layers offer good wear resistance over a wide range of machining conditions and the post-coat treatment minimizes microchipping and improves coating adhesion to substrate leading to long tool life and improved workpiece finishes.	P: 20 25 30 35 K: 30 35 40 beyond DRIVE
KCK20B	**Composition:** A multilayered coating with thick MTCVD TiCN-Al_2O_3-TiOCN layers applied over a carbide substrate specifically engineered for cast irons. **Application:** Delivers consistent performance in high-speed machining of gray and ductile irons. The substrate design permits the insert to stay in the cut for a long time at high speeds with minimum deformation. The thick CVD coating and post-coat treatment provide superior wear resistance ensuring long and consistent tool life. Can be applied both in straight and lightly interrupted cuts.	P: 05 10 K: 15 20 25 30 beyond DRIVE
KCM35B	**Composition:** A multilayer TiN-MT-TiCN-Al_2O_3-TiOCN CVD coating over a super-tough substrate. **Application:** KCM35B is an excellent general purpose to roughing grade for machining stainless steels and roughing steels in turning and cut-off applications. The substrate provides improved toughness while the coating layers offer improved abrasion resistance and dependability at high cutting temperatures, along with wear identification. The polished surface improves edge toughness and provides a smooth outer surface to reduce forces and resist workpiece build-up on the cutting edge even at low cutting speeds. The grade is available in multiple sizes and geometries appropriate for increased feeds and large depths of cut.	P: 35 40 45 M: 30 35 40 S: 30 35 beyond DRIVE

Select the geometry

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

● first choice
○ alternate choice

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius in (mm)	Starting Conditions in (mm)	Plunge Feed Rates inch/rev (mm/rev) .0020 (0,05)	.0040 (0,10)	.0060 (0,15)	.0080 (0,20)	.0100 (0,25)	.0120 (0,30)
-GUP	Positive rake angle for lower cutting forces.		1F	.008 (0,2)	.0024 (0,06)						
			2	.008 (0,2)	.0031 (0,08)						
			3	.008 (0,2)	.0035 (0,09)						
				.016 (0,4)	.0043 (0,11)						
			4	.016 (0,4)	.0047 (0,12)						
				.031 (0,8)	.0059 (0,15)						

Recommended Starting Feed Rate

Pictorial View of Insert

Corner Radius

Plunge Feed Rates

Seat Size

Recommended Feed Rate Range

Primary Workpiece Material Group

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

● first choice
○ alternate choice

Chip Control Geometry Designation

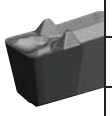
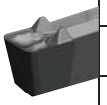
Maximum Feed Rate Values

	Material Group	Feed Factor
Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.	M	.8
	N	1.2
	S	.8
	H	.5

Plunge feed rates

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

● first choice
○ alternate choice

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius in (mm)	Starting Conditions in (mm)	Plunge Feed Rates inch/rev (mm/rev) .0020 (0,05)	.0040 (0,10)	.0060 (0,15)	.0080 (0,20)	.0100 (0,25)	.0120 (0,30)	.0140 (0,35)
-GUP	Positive rake angle for lower cutting forces.		1F	.008 (0,2)	.0024 (0,06)							
			2	.008 (0,2)	.0031 (0,08)							
			3	.008 (0,2)	.0035 (0,09)							
				.016 (0,4)	.0043 (0,11)							
			4	.016 (0,4)	.0047 (0,12)							
				.031 (0,8)	.0059 (0,15)							
			5	.016 (0,4)	.0059 (0,15)							
				.031 (0,8)	.0059 (0,16)							
			6	.016 (0,4)	.0059 (0,15)							
				.031 (0,8)	.0071 (0,18)							
				.047 (1,2)	.0079 (0,20)							
			8	.031 (0,8)	.0079 (0,20)							
				.047 (1,2)	.0087 (0,22)							
			10	.047 (1,2)	.0094 (0,24)							
-GUN	Stable negative cutting edge allowing for more aggressive applications.		1F	.008 (0,2)	.0024 (0,06)							
			2	.008 (0,2)	.0031 (0,08)							
			3	.008 (0,2)	.0035 (0,09)							
				.016 (0,4)	.0043 (0,11)							
			4	.016 (0,4)	.0047 (0,12)							
				.031 (0,8)	.0059 (0,15)							
			5	.016 (0,4)	.0059 (0,15)							
				.031 (0,8)	.0059 (0,16)							
			6	.016 (0,4)	.0059 (0,15)							
				.031 (0,8)	.0071 (0,18)							
				.047 (1,2)	.0079 (0,20)							
			8	.031 (0,8)	.0079 (0,20)							
				.047 (1,2)	.0087 (0,22)							
			10	.047 (1,2)	.0094 (0,24)							

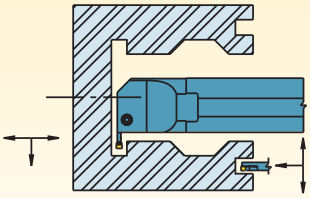
Maximum Feed Rate Values

Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.

Material Group	Feed Factor
M	.8
N	1.2
S	.8
H	.5

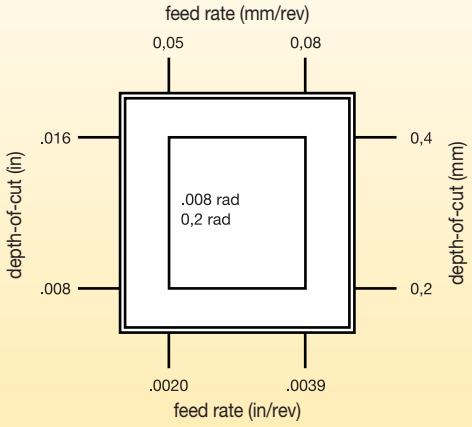
I.D. and Face Grooving

For I.D. and face grooving applications, reduce feed rate by 20%.

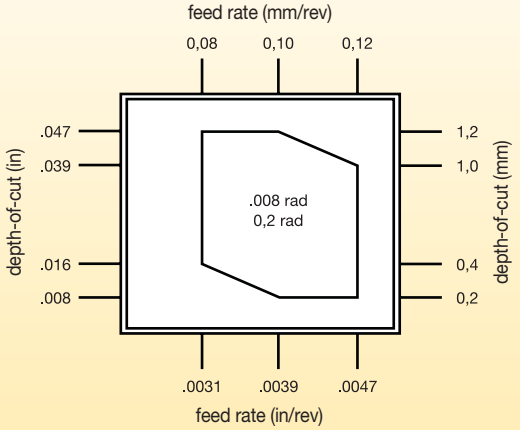


Turn and profile feed rates

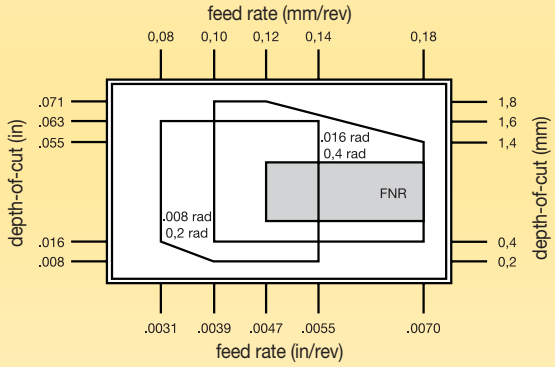
Seat Size 1F



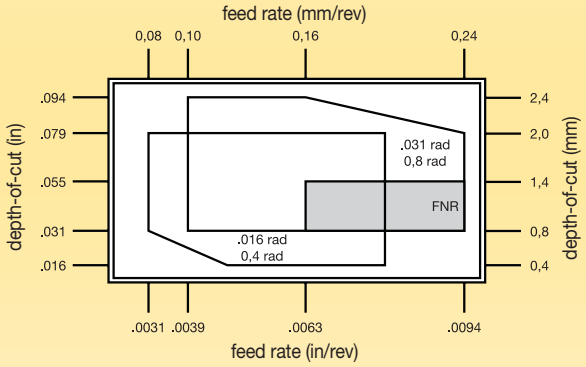
Seat Size 2



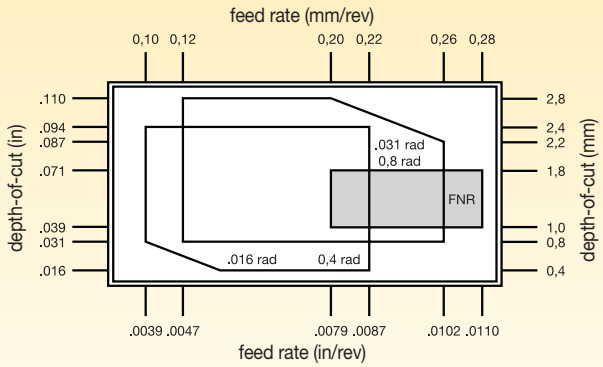
Seat Size 3



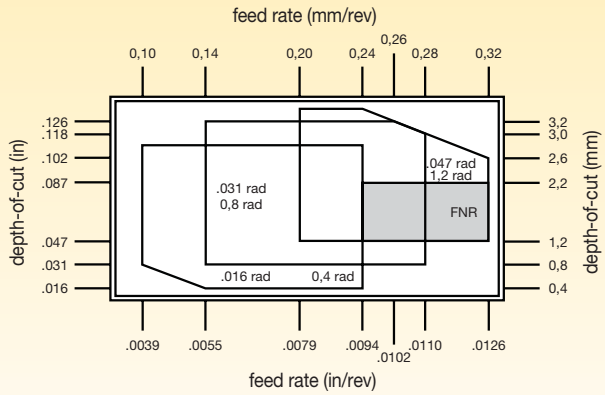
Seat Size 4



Seat Size 5



Seat Size 6

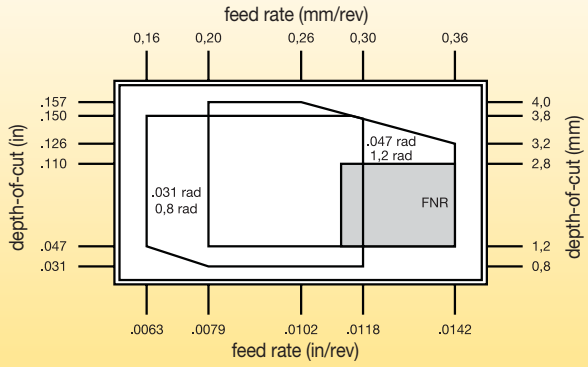


* **FNR** = Full Nose Radius

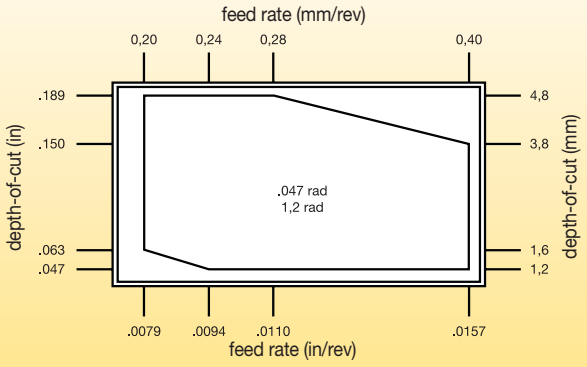
(continued)

(Turn and profile feed rates — continued)

Seat Size 8



Seat Size 10

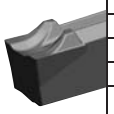
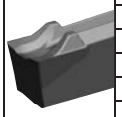
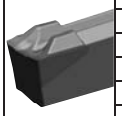
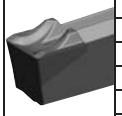


Cut-Off Feed Rates

Plunge feed rates

● first choice
○ alternate choice

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

Geometry	Description	Insert Geometry	Seat Size	Starting Conditions in (mm)	Cut-Off Feed Rates inch/rev (mm/rev) .0020 (0,05) – .0160 (0,40)
-CL	Aggressive geometry for hard to break chips.		1B	.0024 (0,06)	
			2	.0028 (0,07)	
			3	.0031 (0,08)	
			4	.0035 (0,09)	
-CF	Positive geometry for reduced cutting forces.		1B	.0024 (0,06)	
			2	.0028 (0,07)	
			3	.0035 (0,09)	
			4	.0043 (0,11)	
			5	.0051 (0,13)	
-CM	Stable cutting edge for aggressive feed rates. Primarily in cast iron.		1B	.0024 (0,06)	
			2	.0028 (0,07)	
			3	.0035 (0,09)	
			4	.0043 (0,11)	
			5	.0055 (0,14)	
			6	.0063 (0,16)	
			8	.0067 (0,17)	
-CR	Most stable cutting edge for steel.		2	.0039 (0,10)	
			3	.0055 (0,14)	
			4	.0063 (0,16)	
			5	.0075 (0,19)	
			6	.0083 (0,21)	
			8	.0090 (0,23)	

NOTE: For cut-off inserts with a lead angle, maximum feed rate should be reduced by up to 40%.

Maximum Feed Rate Values

Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.

Material Group	Feed Factor
M	.8
N	1.2
S	.8
H	.5

Recommended Starting Speeds [m/min]

Material Group		K313			KCU10			KCU25			KCM35B			KCP10B			KCP25B			KCK20B		
P	0–1	–	–	–	140	**280**	350	110	**225**	270	90	**180**	213	185	**400**	450	145	**290**	365	200	**440**	490
	2	–	–	–	140	**200**	300	110	**160**	260	90	**130**	155	185	**270**	350	145	**200**	305	200	**300**	380
	3	–	–	–	140	**155**	245	110	**125**	235	90	**100**	155	170	**190**	260	140	**155**	245	600	**200**	280
	4	–	–	–	75	**110**	170	60	**90**	160	50	**70**	110	90	**145**	200	75	**110**	180	100	**160**	220
	5	–	–	–	120	**200**	260	100	**160**	210	80	**130**	165	150	**220**	305	120	**200**	270	165	**240**	330
	6	–	–	–	110	**150**	230	85	**120**	185	70	**100**	145	120	**180**	275	110	**150**	230	130	**190**	300
M	1	60	**90**	120	140	**210**	280	90	**170**	245	75	**120**	135	–	–	–	–	–	–	–	–	–
	2	45	**75**	110	120	**200**	245	90	**150**	245	75	**110**	135	–	–	–	–	–	–	–	–	–
	3	35	**65**	100	120	**180**	245	90	**140**	210	75	**90**	135	–	–	–	–	–	–	–	–	–
K	1	30	**75**	120	120	**180**	245	100	**145**	225	–	–	–	170	**245**	440	140	**200**	360	210	**305**	550
	2	25	**70**	110	90	**150**	240	70	**120**	170	–	–	–	120	**195**	340	100	**160**	280	150	**245**	430
	3	20	**60**	90	60	**110**	150	50	**85**	120	–	–	–	120	**170**	270	100	**140**	220	150	**210**	335
N	1–2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	120	**275**	430	120	**365**	700	100	**290**	490	–	–	–	–	–	–	–	–	–	–	–	–
	5	45	**90**	150	90	**170**	245	70	**135**	195	–	–	–	–	–	–	–	–	–	–	–	–
	6	40	**75**	150	120	**210**	305	100	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
S	1	8	**30**	75	15	**55**	135	8	**40**	60	8	**35**	60	–	–	–	–	–	–	–	–	–
	2	8	**35**	75	15	**60**	135	8	**30**	75	8	**30**	60	–	–	–	–	–	–	–	–	–
	3	8	**40**	75	15	**70**	150	15	**40**	75	15	**35**	60	–	–	–	–	–	–	–	–	–
	4	8	**45**	75	15	**70**	170	8	**50**	110	15	**45**	90	–	–	–	–	–	–	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Recommended Starting Speeds [SFM]

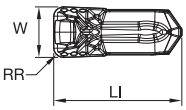
Material Group		K313			KCU10			KCU25			KCM35B			KCP10B			KCP25B			KCK20B		
P	0–1	–	–	–	450	**925**	1180	360	**740**	880	290	**590**	700	600	**1320**	1475	475	**925**	1200	660	**1450**	1620
	2	–	–	–	450	**650**	1000	360	**520**	880	290	**420**	510	600	**880**	1150	475	**650**	1000	660	**970**	1260
	3	–	–	–	450	**510**	800	360	**410**	800	290	**330**	510	550	**630**	850	450	**510**	800	600	**700**	920
	4	–	–	–	250	**360**	550	200	**290**	540	160	**230**	350	300	**480**	650	250	**360**	600	330	**530**	710
	5	–	–	–	400	**660**	850	320	**530**	680	260	**420**	540	500	**720**	1000	400	**650**	875	550	**800**	1100
	6	–	–	–	350	**500**	750	280	**400**	600	220	**320**	480	400	**600**	900	350	**500**	750	440	**660**	990
M	1	200	**300**	400	450	**700**	940	300	**550**	800	250	**400**	450	–	–	–	–	–	–	–	–	–
	2	150	**250**	350	400	**650**	800	300	**500**	800	250	**350**	450	–	–	–	–	–	–	–	–	–
	3	120	**220**	320	400	**600**	800	300	**450**	700	250	**300**	450	–	–	–	–	–	–	–	–	–
K	1	100	**250**	400	400	**600**	800	320	**480**	760	–	–	–	560	**800**	1440	455	**650**	1170	700	**1000**	1800
	2	75	**225**	350	300	**500**	800	240	**400**	560	–	–	–	400	**640**	1120	325	**520**	910	500	**800**	1400
	3	65	**190**	300	200	**350**	500	160	**280**	400	–	–	–	400	**560**	880	325	**455**	715	500	**700**	1100
N	1–2	500	**1200**	2000	500	**1800**	3200	400	**1440**	2560	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	400	**900**	1400	400	**1200**	2360	320	**960**	1600	–	–	–	–	–	–	–	–	–	–	–	–
	5	150	**300**	500	300	**550**	800	240	**440**	640	–	–	–	–	–	–	–	–	–	–	–	–
	6	120	**250**	500	400	**700**	1000	320	**560**	800	–	–	–	–	–	–	–	–	–	–	–	–
S	1	25	**100**	250	50	**180**	450	25	**125**	200	25	**125**	200	–	–	–	–	–	–	–	–	–
	2	25	**110**	250	50	**195**	450	25	**100**	250	25	**100**	200	–	–	–	–	–	–	–	–	–
	3	25	**125**	250	50	**225**	500	50	**125**	250	50	**125**	200	–	–	–	–	–	–	–	–	–
	4	25	**150**	250	50	**225**	550	25	**175**	350	50	**150**	300	–	–	–	–	–	–	–	–	–
H	1	–	–	–	100	**150**	200	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	50	**100**	150	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

NOTE: FIRST choice starting speeds are in **bold** type.
As the average chip thickness increases, the speed should be decreased.

- Positive chipbreaker lowers cutting forces.
- Engineered geometry for chip control in side turning.
- High performance in all materials.

● first choice
○ alternate choice

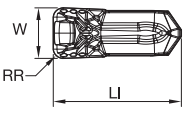
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUP Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RR mm	RR in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG0212M02U02GUP	2	2,125	.084	0,050	.002	0,20	.008	8,97	.353	●	●	●	●	–	–	–
EG0251M02U02GUP	2	2,511	.099	0,050	.002	0,20	.008	8,97	.353	●	●	●	●	–	–	–
EG0312M03U02GUP	3	3,125	.123	0,075	.003	0,20	.008	9,60	.378	●	●	●	–	–	–	–
EG0312M03U04GUP	3	3,125	.123	0,075	.003	0,40	.016	9,60	.378	●	●	●	●	–	–	–
EG0412M04U04GUP	4	4,125	.162	0,075	.003	0,40	.016	10,19	.401	●	●	●	●	–	–	–
EG0412M04U08GUP	4	4,125	.162	0,075	.003	0,80	.031	10,19	.401	●	●	●	●	–	–	–
EG0512M05U04GUP	5	5,125	.202	0,075	.003	0,40	.016	12,25	.482	●	●	●	●	–	–	–
EG0512M05U08GUP	5	5,125	.202	0,075	.003	0,80	.031	12,25	.482	●	●	●	●	–	–	–
EG0612M06U04GUP	6	6,125	.241	0,075	.003	0,40	.016	14,60	.575	●	●	●	●	–	–	–
EG0612M06U08GUP	6	6,125	.241	0,075	.003	0,80	.031	14,60	.574	●	●	●	●	–	–	–
EG0712M06U08GUP	6	7,125	.281	0,075	.003	0,80	.032	14,60	.574	●	●	●	●	–	–	–
EG0812M08U08GUP	8	8,125	.320	0,075	.003	0,80	.031	17,47	.688	●	●	●	●	–	–	–
EG0812M08U12GUP	8	8,125	.320	0,075	.003	1,18	.046	17,45	.687	●	●	●	●	–	–	–
EG1012M10U12GUP	10	10,125	.399	0,075	.003	1,20	.047	20,80	.817	●	●	●	●	–	–	–

- More precise widths and better repeatability.



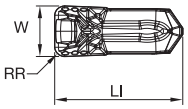
GUP Precision Ground • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RR mm	RR in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG0200M02P02GUP	2	2,000	.079	0,025	.001	0,20	.008	8,80	.347	●	●	–	–	–	–	●
EG0300M03P02GUP	3	3,000	.118	0,025	.001	0,20	.008	9,40	.372	●	●	–	–	–	–	●
EG0300M03P04GUP	3	3,000	.118	0,025	.001	0,40	.016	9,60	.376	●	●	–	–	–	–	●
EG0400M04P04GUP	4	4,000	.157	0,025	.001	0,40	.016	10,10	.399	●	●	–	–	–	–	●
EG0400M04P08GUP	4	4,000	.158	0,025	.001	0,80	.032	10,10	.399	●	●	–	–	–	–	●
EG0500M05P04GUP	5	5,000	.197	0,025	.001	0,40	.016	12,20	.480	●	●	–	–	–	–	●
EG0500M05P08GUP	5	5,000	.197	0,025	.001	0,80	.032	12,20	.480	●	●	–	–	–	–	●
EG0600M06P04GUP	6	6,000	.236	0,025	.001	0,40	.016	14,50	.572	●	●	–	–	–	–	●
EG0600M06P08GUP	6	6,000	.236	0,025	.001	0,80	.031	14,50	.572	●	●	–	–	–	–	●
EG0700M06P08GUP	6	7,000	.276	0,025	.001	0,80	.031	14,50	.572	●	●	–	–	–	–	●
EG0800M08P08GUP	8	8,000	.315	0,025	.001	0,80	.031	17,40	.685	●	●	–	–	–	–	●
EG0800M08P12GUP	8	8,000	.315	0,025	.001	1,20	.047	17,40	.685	●	●	–	–	–	–	●
EG1000M10P12GUP	10	10,000	.394	0,025	.001	1,20	.047	20,70	.815	●	●	–	–	–	–	●

- Positive chipbreaker lowers cutting forces.
- Engineered geometry for chip control in side turning.
- High performance in all materials.

● first choice
○ alternate choice

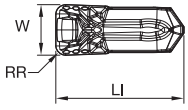
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUP Precision Molded • Inch

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RR mm	RR in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG130I03U05GUP	3	3,301	.130	0,075	.003	0,20	.008	9,60	.378	●	●	●	●	–	–	–
EG130I03U1GUP	3	3,301	.130	0,075	.003	0,40	.016	9,60	.378	●	●	●	●	–	–	–
EG192I04U1GUP	4	4,877	.192	0,075	.003	0,40	.016	10,19	.401	●	●	●	●	–	–	–
EG192I04U2GUP	4	4,877	.192	0,075	.003	0,79	.031	10,19	.401	●	●	●	●	–	–	–
EG255I06U1GUP	6	6,478	.255	0,075	.003	0,40	.016	14,58	.574	●	●	●	●	–	–	–
EG255I06U2GUP	6	6,478	.255	0,075	.003	0,80	.031	14,58	.574	●	●	●	●	–	–	–
EG317I08U3GUP	8	8,051	.317	0,075	.003	1,19	.047	17,46	.687	●	●	●	●	–	–	–
EG380I10U3GUP	10	9,651	.380	0,075	.003	1,19	.047	20,80	.817	●	●	●	●	–	–	–

- More precise widths and better repeatability.



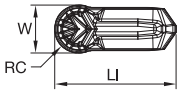
GUP Precision Ground • Inch

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RR mm	RR in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG063I1FP05GUP	1F	1,600	.063	0,025	.001	0,20	.008	9,00	.353	●	●	–	–	–	–	●
EG094I02P05GUP	2	2,388	.094	0,025	.001	0,20	.008	8,88	.350	●	●	–	–	–	–	●
EG125I03P05GUP	3	3,175	.125	0,025	.001	0,20	.008	9,40	.371	●	●	–	–	–	–	●
EG125I03P1GUP	3	3,175	.125	0,025	.001	0,40	.016	9,40	.372	●	●	–	–	–	–	●
EG187I04P1GUP	4	4,760	.188	0,025	.001	0,40	.016	10,10	.399	●	●	–	–	–	–	●
EG187I04P2GUP	4	4,762	.188	0,025	.001	0,79	.031	10,10	.399	●	●	–	–	–	–	●
EG250I06P1GUP	6	6,350	.250	0,025	.001	0,40	.016	14,50	.572	●	●	–	–	–	–	●
EG250I06P2GUP	6	6,350	.250	0,025	.001	0,80	.031	14,50	.572	●	●	–	–	–	–	●
EG312I08P3GUP	8	7,920	.312	0,025	.001	1,20	.047	17,40	.685	●	●	–	–	–	–	●
EG375I10P3GUP	10	9,525	.375	0,025	.001	1,20	.047	20,70	.815	●	●	–	–	–	–	●

- First choice in profiling.
- >180° cutting edge.
- High performance in all materials.

● first choice
○ alternate choice

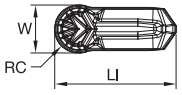
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUP Full Radius Precision Molded • Metric

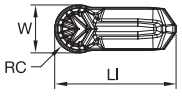
catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RC mm	RC in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER0212M02U00GUP	2	2,120	.084	0,050	.002	1,060	.04	8,97	.353	●	●	●	●	–	–	–
ER0312M03U00GUP	3	3,125	.123	0,075	.003	1,560	.06	9,60	.378	●	●	●	●	–	–	–
ER0412M04U00GUP	4	4,125	.162	0,075	.003	2,060	.08	10,20	.401	●	●	●	●	–	–	–
ER0512M05U00GUP	5	5,125	.202	0,075	.003	2,560	.10	12,20	.482	●	●	●	●	–	–	–
ER0612M06U00GUP	6	6,125	.241	0,075	.003	3,060	.12	14,60	.575	●	●	●	●	–	–	–
ER0812M08U00GUP	8	8,125	.320	0,075	.003	4,060	.16	17,50	.688	●	●	●	●	–	–	–

- More precise widths and better repeatability.



GUP Full Radius Precision Ground • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RC mm	RC in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER0200M02P00GUP	2	2,000	.079	0,025	.001	1,000	.04	8,91	.351	●	●	–	–	–	–	–
ER0300M03P00GUP	3	3,000	.118	0,025	.001	1,500	.06	9,50	.376	●	●	–	–	–	–	●
ER0400M04P00GUP	4	4,000	.157	0,025	.001	2,000	.08	10,10	.399	●	●	–	–	–	–	●
ER0500M05P00GUP	5	5,000	.197	0,025	.001	2,500	.10	12,20	.480	●	●	–	–	–	–	●
ER0600M06P00GUP	6	6,000	.236	0,025	.001	3,000	.12	14,50	.572	●	●	–	–	–	–	●
ER0800M08P00GUP	8	8,000	.315	0,025	.001	4,000	.16	17,40	.685	●	●	–	–	–	–	●



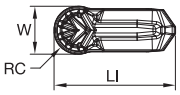
GUP Full Radius Precision Molded • Inch

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RC mm	RC in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER130I03U00GUP	3	3,302	.130	0,075	.003	1,650	.07	9,60	.378	●	●	●	●	–	–	–
ER192I04U00GUP	4	4,878	.192	0,075	.003	2,440	.10	10,20	.401	●	●	●	●	–	–	–
ER255I06U00GUP	6	6,478	.255	0,075	.003	3,240	.13	14,60	.575	●	●	●	●	–	–	–
ER317I08U00GUP	8	8,052	.317	0,075	.003	4,030	.16	17,50	.688	●	●	●	●	–	–	–

- First choice in profiling.
- >180° cutting edge.
- High performance in all materials.
- More precise widths and better repeatability.

● first choice
○ alternate choice

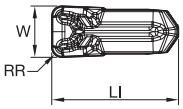
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUP Full Radius Precision Ground • Inch

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RC mm	RC in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER125I03P00GUP	3	3,175	.125	0,025	.001	1,590	.06	9,50	.376	●	●	–	–	–	–	●
ER187I04P00GUP	4	4,762	.187	0,025	.001	2,380	.09	10,10	.399	●	●	–	–	–	–	●
ER250I06P00GUP	6	6,350	.250	0,025	.001	3,170	.13	14,50	.572	●	●	–	–	–	–	●
ER312I08P00GUP	8	7,920	.312	0,025	.001	3,960	.16	17,40	.685	●	●	–	–	–	–	●

- Negative rake face for strongest cutting edge.
- More aggressive applications.
- Advantages in low-feed and depth-of-cut applications.



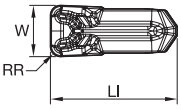
GUN Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RR mm	RR in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG0212M02U02GUN	2	2,125	.084	0,050	.002	0,20	.008	8,97	.353	●	●	●	●	●	–	–
EG0251M02U02GUN	2	2,510	.099	0,050	.002	0,20	.008	8,97	.353	●	●	●	●	●	–	–
EG0312M03U02GUN	3	3,125	.123	0,075	.003	0,20	.008	9,60	.378	●	●	●	●	●	–	–
EG0312M03U04GUN	3	3,125	.123	0,075	.003	0,40	.016	9,60	.378	●	●	●	●	●	–	–
EG0412M04U04GUN	4	4,125	.162	0,075	.003	0,40	.016	10,19	.401	●	●	●	●	●	–	–
EG0412M04U08GUN	4	4,125	.162	0,075	.003	0,80	.031	10,19	.401	●	●	●	●	●	–	–
EG0512M05U04GUN	5	5,125	.202	0,075	.003	0,40	.016	12,20	.481	●	●	●	●	●	–	–
EG0512M05U08GUN	5	5,125	.202	0,075	.003	0,80	.031	12,20	.481	●	●	●	●	●	–	–
EG0612M06U04GUN	6	6,125	.241	0,075	.003	0,40	.016	14,60	.575	●	●	●	–	●	–	–
EG0612M06U08GUN	6	6,125	.241	0,075	.003	0,80	.031	14,60	.574	●	●	–	●	●	–	–
EG0812M08U08GUN	8	8,125	.320	0,075	.003	0,80	.031	17,50	.687	●	●	●	●	●	–	–
EG0812M08U12GUN	8	8,125	.320	0,075	.003	1,20	.047	17,50	.687	●	●	●	●	●	–	–
EG1012M10U12GUN	10	10,125	.399	0,075	.003	1,20	.047	20,80	.817	●	●	●	●	●	–	–

- Negative rake face for strongest cutting edge.
- More aggressive applications.
- Advantages in low-feed and depth-of-cut applications.

● first choice
○ alternate choice

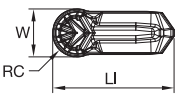
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUN Precision Molded • Inch

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RR mm	RR in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG063I1FU05GUN	1F	1,600	.063	0,050	.002	0,20	.008	9,00	.355	●	●	●	●	●	–	–
EG094I02U05GUN	2	2,388	.094	0,050	.002	0,20	.008	8,97	.353	●	●	●	●	●	–	–
EG125I03U05GUN	3	3,175	.125	0,075	.003	0,20	.008	9,60	.378	●	●	●	●	●	–	–
EG125I03U1GUN	3	3,175	.125	0,075	.003	0,40	.016	9,60	.378	●	●	●	●	●	–	–
EG130I03U05GUN	3	3,302	.130	0,075	.003	0,20	.008	9,60	.378	●	●	●	●	●	–	–
EG130I03U1GUN	3	3,302	.130	0,075	.003	0,40	.016	9,60	.378	●	●	●	●	●	–	–
EG187I04U1GUN	4	4,750	.187	0,075	.003	0,40	.016	10,20	.401	●	●	●	●	●	–	–
EG187I04U2GUN	4	4,750	.187	0,075	.003	0,80	.032	10,19	.401	●	●	●	●	●	–	–
EG192I04U1GUN	4	4,877	.192	0,075	.003	0,40	.016	10,19	.401	●	●	●	●	●	–	–
EG192I04U2GUN	4	4,878	.192	0,075	.003	0,79	.031	10,19	.401	●	●	●	●	●	–	–
EG250I06U1GUN	6	6,350	.250	0,075	.003	0,40	.016	14,58	.574	●	●	●	●	●	–	–
EG250I06U2GUN	6	6,350	.250	0,075	.003	0,80	.032	14,58	.574	●	●	●	●	●	–	–
EG255I06U1GUN	6	6,477	.255	0,075	.003	0,40	.016	14,58	.574	●	●	●	●	●	–	–
EG255I06U2GUN	6	6,477	.255	0,075	.003	0,80	.031	14,58	.574	●	●	●	●	●	–	–
EG312I08U3GUN	8	7,925	.312	0,075	.003	1,20	.047	17,46	.687	●	●	●	●	●	–	–
EG317I08U3GUN	8	8,052	.317	0,075	.003	1,19	.047	17,46	.687	●	●	●	●	●	–	–
EG375I10U3GUN	10	9,525	.375	0,075	.003	1,20	.047	20,80	.817	●	●	●	●	●	–	–
EG380I10U3GUN	10	9,651	.380	0,075	.003	1,20	.047	20,80	.817	●	●	●	●	●	–	–

- Negative rake face for strongest cutting edge.
- First choice in profiling.
- >180° cutting edge.
- High performance in all materials.



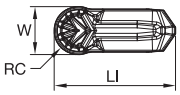
GUN Full Radius Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RC mm	RC in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER0212M02U00GUN	2	2,120	.083	0,050	.002	1,060	.04	8,97	.353	●	●	●	●	●	–	–
ER0312M03U00GUN	3	3,125	.123	0,075	.003	1,560	.06	9,60	.378	●	●	●	●	●	–	–
ER0412M04U00GUN	4	4,125	.162	0,075	.003	2,060	.08	10,20	.401	●	●	●	●	●	–	–
ER0512M05U00GUN	5	5,125	.202	0,075	.003	2,560	.10	12,20	.482	●	●	●	●	●	–	–
ER0612M06U00GUN	6	6,125	.241	0,075	.003	3,060	.12	14,60	.575	●	●	●	●	●	–	–
ER0812M08U00GUN	8	8,125	.320	0,075	.003	4,060	.16	17,47	.688	●	●	●	●	●	–	–

- Negative rake face for strongest cutting edge.
- First choice in profiling.
- >180° cutting edge.
- High performance in all materials.

● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



GUN Full Radius Precision Molded • Inch

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	RC mm	RC in	LI mm	LI in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER094I02U00GUN	2	2,387	.094	0,050	.002	1,190	.05	8,97	.353	●	●	●	●	●	–	–
ER125I03U00GUN	3	3,177	.125	0,075	.003	1,590	.06	9,60	.378	●	●	●	●	●	–	–
ER130I03U00GUN	3	3,300	.130	0,075	.003	1,650	.07	9,60	.378	●	●	●	●	●	–	–
ER187I04U00GUN	4	4,750	.187	0,075	.003	2,370	.09	10,20	.401	●	●	●	●	●	–	–
ER192I04U00GUN	4	4,873	.192	0,075	.003	2,440	.10	10,20	.401	●	●	●	●	●	–	–
ER250I06U00GUN	6	6,346	.250	0,075	.003	3,170	.13	14,60	.575	●	●	●	●	●	–	–
ER255I06U00GUN	6	6,473	.255	0,075	.003	3,240	.13	14,60	.575	●	●	●	●	●	–	–
ER312I08U00GUN	8	7,925	.312	0,075	.003	3,960	.16	17,50	.688	●	●	●	●	●	–	–
ER317I08U00GUN	8	8,052	.317	0,075	.003	4,030	.16	17,50	.688	●	●	●	●	●	–	–

Beyond™ Evolution™ Cut-Off Inserts

- Positive chipbreaker lowers cutting forces.
- First choice for steel and stainless steel.
- Excellent surface finish.

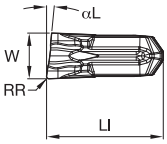
● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						

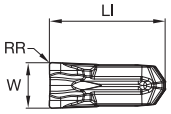
Left Hand

Neutral

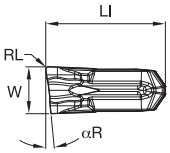
Right Hand



Left Hand



Neutral



Right Hand

CF Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	LI mm	LI in	αR	αL	RR mm	RR in	RL mm	RL in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EC014M1BL06CF01	1B	1,404	.055	0,050	.002	9,00	.355	–	6	0,15	.006	–	–	–	●	–	–	–	●	–
EC014M1BN00CF01	1B	1,400	.055	0,050	.002	9,00	.355	–	–	0,15	.006	0,15	.006	–	●	–	–	–	●	–
EC014M1BR06CF01	1B	1,404	.055	0,050	.002	9,00	.355	6	–	–	–	0,15	.006	–	●	–	–	–	●	–
EC020M02L06CF02	2	2,000	.079	0,050	.002	8,97	.353	–	6	0,20	.008	–	–	–	●	–	–	–	●	–
EC020M02N00CF02	2	2,000	.079	0,050	.002	8,97	.353	–	–	0,20	.008	0,20	.008	–	●	–	–	–	●	–
EC020M02R06CF02	2	2,000	.079	0,050	.002	8,97	.353	6	–	–	–	0,20	.008	–	●	–	–	–	●	–
EC030M03L06CF02	3	3,000	.118	0,075	.003	9,60	.378	–	6	0,20	.008	–	–	–	●	–	–	–	●	–
EC030M03N00CF02	3	3,000	.118	0,075	.003	9,60	.378	–	–	0,20	.008	0,20	.008	–	●	–	–	–	●	–
EC030M03R06CF02	3	3,000	.118	0,075	.003	9,60	.378	6	–	–	–	0,20	.008	–	●	–	–	–	●	–
EC040M04L06CF02	4	4,000	.157	0,075	.003	10,19	.401	–	6	0,20	.008	–	–	–	●	–	–	–	●	–
EC040M04N00CF02	4	4,000	.158	0,075	.003	10,19	.401	–	–	0,20	.008	0,20	.008	–	●	–	–	–	●	–
EC040M04R06CF02	4	4,000	.158	0,075	.003	10,19	.401	6	–	–	–	0,20	.008	–	●	–	–	–	●	–
EC050M05N00CF03	5	5,000	.197	0,075	.003	12,20	.482	–	–	0,30	.012	0,30	.012	–	●	–	–	–	●	–

- Most aggressive chipbreaker.
- For use in long chipping materials.
- Problem solver.

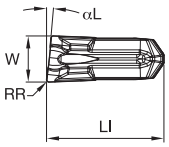
● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						

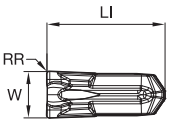
Left Hand

Neutral

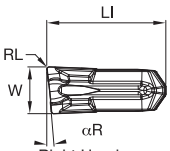
Right Hand



Left Hand



Neutral



Right Hand

CL Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	LI mm	LI in	αR	αL	RR mm	RR in	RL mm	RL in
EC014M1BL06CL01	1B	1,400	.055	0,050	.002	9,00	.355	–	6	0,15	.006	–	–
EC014M1BN00CL01	1B	1,400	.055	0,050	.002	9,00	.355	–	–	0,15	.006	0,15	.006
EC014M1BR06CL01	1B	1,400	.055	0,050	.002	9,00	.355	6	–	–	–	0,15	.006
EC020M02L06CL02	2	2,000	.079	0,050	.002	8,96	.353	–	6	0,20	.008	–	–
EC020M02N00CL02	2	2,000	.079	0,050	.002	8,97	.353	–	–	0,20	.008	0,20	.008
EC020M02R06CL02	2	2,000	.079	0,050	.002	8,96	.353	6	–	–	–	0,20	.005
EC030M03L06CL02	3	3,000	.118	0,075	.003	9,59	.378	–	6	0,20	.008	–	–
EC030M03N00CL02	3	3,000	.118	0,075	.003	9,60	.378	–	–	0,20	.008	0,20	.008
EC030M03R06CL02	3	3,000	.118	0,075	.003	9,59	.378	6	–	–	–	0,20	.008
EC040M04L06CL02	4	4,000	.158	0,075	.003	10,19	.401	–	6	0,20	.008	–	–
EC040M04N00CL02	4	4,000	.157	0,075	.003	10,20	.401	–	–	0,20	.008	0,20	.008
EC040M04R06CL02	4	4,000	.158	0,075	.003	10,19	.401	6	–	–	–	0,20	.008

- Ultimate solution in edge stability.
- Leverage for interrupted cuts or hardened skin.
- First choice for cast iron.

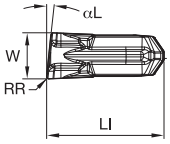
● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						

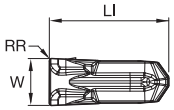
Left Hand

Neutral

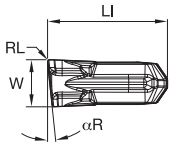
Right Hand



Left Hand



Neutral



Right Hand

CM Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	LI mm	LI in	αR	αL	RR mm	RR in	RL mm	RL in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EC014M1BL06CM01	1B	1,400	.055	0,050	.002	9,00	.355	—	6	0,20	.008	—	—	–	●	–	–	–	–	–
EC014M1BN00CM01	1B	1,400	.055	0,050	.002	9,00	.355	—	—	0,15	.006	0,15	.006	–	●	–	–	–	–	–
EC014M1BR06CM01	1B	1,400	.055	0,050	.002	9,00	.355	6	—	—	—	0,20	.008	–	●	–	–	–	–	–
EC020M02L06CM02	2	2,000	.079	0,050	.002	9,00	.353	—	6	0,20	.008	—	—	–	●	–	–	–	–	–
EC020M02N00CM02	2	2,000	.079	0,050	.002	8,98	.353	—	—	0,20	.008	0,20	.008	–	●	–	–	–	–	–
EC020M02R06CM02	2	2,000	.079	0,050	.002	9,00	.353	6	—	—	—	0,20	.008	–	●	–	–	–	–	–
EC030M03L06CM02	3	3,000	.118	0,075	.003	9,60	.378	—	6	0,20	.008	—	—	–	●	–	–	–	–	–
EC030M03N00CM02	3	3,000	.118	0,075	.003	9,60	.378	—	—	0,20	.008	0,20	.008	–	●	–	–	–	–	–
EC030M03R06CM02	3	3,000	.118	0,075	.003	9,60	.378	6	—	—	—	0,20	.008	–	●	–	–	–	–	–
EC040M04L06CM02	4	4,000	.157	0,075	.003	10,20	.401	—	6	0,20	.008	—	—	–	●	–	–	–	–	–
EC040M04N00CM02	4	4,000	.158	0,075	.003	10,20	.402	—	—	0,20	.008	0,20	.008	–	●	–	–	–	–	–
EC040M04R06CM02	4	4,000	.157	0,075	.003	10,20	.401	6	—	—	—	0,20	.008	–	●	–	–	–	–	–
EC050M05N00CM03	5	5,000	.197	0,075	.003	12,20	.482	—	—	0,30	.012	0,30	.012	–	●	–	–	–	–	–
EC060M06N00CM03	6	6,000	.236	0,075	.003	14,59	.574	—	—	0,30	.012	0,30	.012	–	●	–	–	–	–	–
EC070M06N00CM04	6	7,000	.276	0,075	.003	14,60	.574	—	—	0,40	.016	0,40	.016	–	●	–	–	–	–	–
EC080M08N00CM04	8	8,000	.315	0,075	.003	17,50	.688	—	—	0,40	.016	0,40	.016	–	●	–	–	–	–	–

- Strong chip control due to concave edge.
- First choice in steel when additional stability is required.
- Can apply most aggressive speed rates.

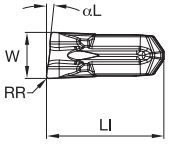
● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						

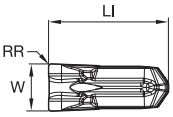
Left Hand

Neutral

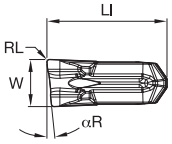
Right Hand



Left Hand



Neutral



Right Hand

CR Precision Molded • Metric

catalog number	seat size	W mm	W in	W tol ± mm	W tol ± in	LI mm	LI in	αR	αL	RR mm	RR in	RL mm	RL in
EC020M02L06CR02	2	2,000	.079	0,050	.002	9,00	.353	–	6	0,20	.008	–	–
EC020M02N00CR02	2	2,000	.079	0,050	.002	8,98	.353	–	–	0,20	.008	0,20	.008
EC020M02R06CR02	2	2,000	.079	0,050	.002	9,00	.353	6	–	–	–	0,20	.008
EC030M03L06CR02	3	3,000	.118	0,075	.003	9,60	.378	–	6	0,20	.008	–	–
EC030M03N00CR02	3	3,000	.118	0,075	.003	9,60	.378	–	–	0,20	.008	0,20	.008
EC030M03R06CR02	3	3,000	.118	0,075	.003	9,60	.378	6	–	–	–	0,20	.008
EC040M04L06CR02	4	4,000	.157	0,075	.003	10,20	.402	–	6	0,20	.008	–	–
EC040M04N00CR02	4	4,000	.158	0,075	.003	10,20	.402	–	–	0,20	.008	0,20	.008
EC040M04R06CR02	4	4,000	.157	0,075	.003	10,20	.402	6	–	–	–	0,20	.008
EC050M05N00CR03	5	5,000	.197	0,075	.003	12,25	.482	–	–	0,30	.012	0,30	.012
EC060M06L06CR04	6	6,000	.236	0,075	.003	14,59	.574	–	6	0,40	.016	–	–
EC060M06N00CR03	6	6,000	.236	0,075	.003	14,59	.574	–	–	0,30	.012	0,30	.012
EC060M06R06CR04	6	6,000	.236	0,075	.003	14,59	.574	6	–	–	–	0,40	.016
EC070M06N00CR04	6	7,000	.276	0,075	.003	14,60	.574	–	–	0,40	.016	0,40	.016
EC080M08L06CR04	8	8,000	.315	0,075	.003	17,50	.687	–	6	0,40	.016	–	–
EC080M08N00CR04	8	8,000	.315	0,075	.003	17,50	.687	–	–	0,40	.016	0,40	.016
EC080M08R06CR04	8	8,000	.315	0,075	.003	17,50	.687	6	–	–	–	0,40	.016

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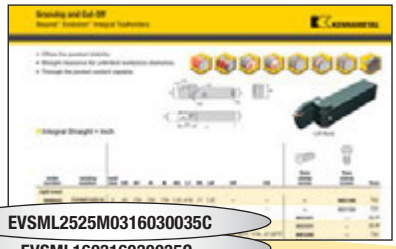

EVSML2525M0316030035C

EVSML160316030035C

Metric								
EV	**S**	**M**	**L**	**2525M**	**03**	**16**	**030035**	**C**
Inch								
EV	**S**	**M**	**L**	**16**	**03**	**16**	**030035**	**C**
Family Name	Tool Style	Support Type	Hand	Shank Size	Seat Size	Max Groove Depth	Face Grooving Diameters	Coolant
Beyond™ Evolution™	**S** = Straight mount		**L** = Left hand **R** = Right hand		**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	in millimeters	**030** = Minimum diameter in mm **035** = Maximum diameter in mm	**C** = Through the pocket coolant capable

M = Maximum support for specific groove width and straight clearance for unlimited workpiece diameter

A = Face grooving-inboard sweep

B = Face grooving-outboard sweep

Metric = Height x Width in mm letter indicates tool length according to ISO

Inch = Height x Width in 1/16" increments

By referencing this easy-to-use guide, you can identify the correct product to meet your needs.

EVSCTL2525M0316C

EVSCTL160316C

Metric	EV	S	C	T	L	2525M	03	16	C
Inch	EV	S	C	T	L	16	03	16	C
	Family Name	Tool Style	Support Type	Clamping Screw Position	Hand	Shank Size	Seat Size	Max Groove Depth	Coolant
	Beyond™ Evolution™	**S** = Straight mount		**T** = Top **F** = Front	**L** = Left hand **R** = Right hand		**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	in millimeters	**C** = Through the pocket coolant capable

C = Reinforced support

Metric = Height x Width in mm letter indicates tool length according to ISO

Inch = Height x Width in 1/16" increments

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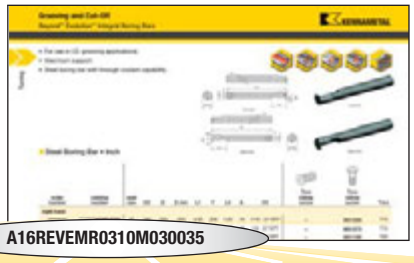
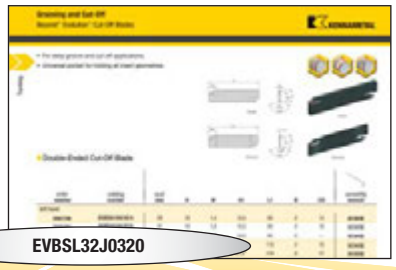


A16REVEMR0310M030035

A	16	R	EV	E	M	R	03	10	M	030035
Steel Bar with Coolant	Bar Diameter	Bar Length	Platform	Tool Type	Support Type	Hand of Tool	Insert Seat Size	Max Cutting Depth	Tool Units	Face Grooving Diameters
Steel boring bar with through coolant capability.	**Metric** = Diameter in mm **Inch** = Diameter in 1/16" increments		Beyond™ Evolution™	**E** = End mount (90°) **S** = Straight Mount	**M** = Maximum support **A** = Face Grooving-inboard sweep	**R** = Right hand **L** = Left hand	**1F** **02** **03** **04** **05** **06** **08** **10**	in millimeters	**M** = Metric **I** = Inch	**030** = Minimum diameter in mm **035** = Maximum diameter in mm

symbol	mm	inch
K	125	5
M	150	6
Q	180	7
R	200	8
S	250	10
T	300	12



EVBSL32J0320

EV	B	S	L	32	J	03	20
Family Name	Tool Style	Support Type	Hand	Blade Height	Overall Length	Seat Size	Max Cutting Depth
Beyond™ Evolution™	**B** = 2 pocket blade	**S** = Standard **C** = Reinforced	**N** = Neutral **L** = Left hand **R** = Right hand	in millimeters	According to ISO **G** = 90mm **J** = 110mm **M** = 150mm **X** = Special	**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	in millimeters

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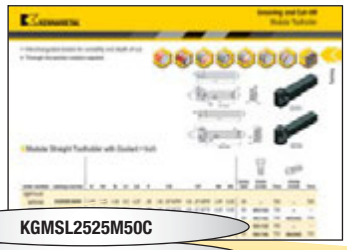


KGMSL2525M50C

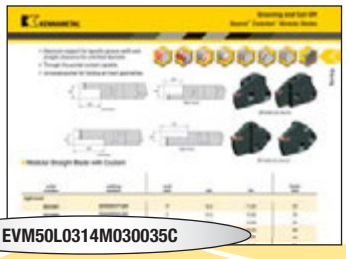
KGMSL1650C

Metric

KGM	S	L	2525M	50	C

Inch

KGM	S	L	16	50	C
Family Name	Tool Style	Hand	Shank Size	Blade Size	Coolant
Grooving Modular System	**S** = Straight mount **E** = End mount (90°)	**L** = Left hand **R** = Right hand	**Metric** = Height x Width in mm letter indicates tool length according to ISO **Inch** = Height x Width in 1/16" increments	**50** **65**	**C** = Through coolant capable



EVM50L0314M030035C

EVM	50	L	03	14	M	030035	C
Family Name	Blade Size	Hand	Seat Size	Max Groove Depth	Support Type	Face Grooving Diameters	Coolant
Beyond™ Evolution™ Modular Blade	**50** **65**	**L** = Left hand **R** = Right hand	**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	in millimeters	**M** = Maximum support for specific groove width and straight clearance for unlimited diameter **A** = Face grooving-inboard sweep **B** = Face grooving-outboard sweep	**030** = Minimum diameter in mm **035** = Maximum diameter in mm	**C** = Through the pocket coolant capable

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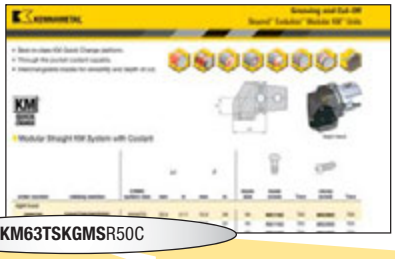
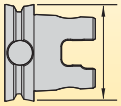
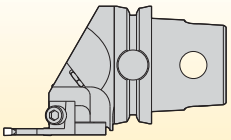


KM63TSKGMSR50C

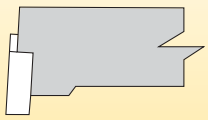
KM	63	TS	KGM	S
KM™ Quick-Change	System Size	Feature	Insert Holding Method	Insert Location
KM™ **KM4X™** **PSC**	**40** = 40mm **50** = 50mm **63** = 63mm **80** = 80mm **100** = 100mm	**TS** **XMZ**	**KGM**	**E** = End mount **S** = Side mount



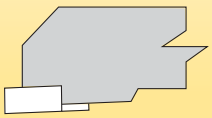


Modular Grooving

E



S



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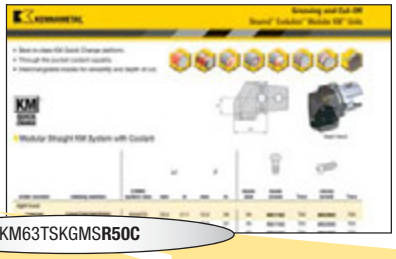
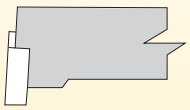


KM63TSKGMS**R50C**

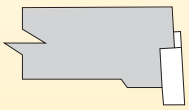
R	50	C	
Hand of Tool	Blade Size	Coolant	Special Features
R = Right hand **L** = Left hand	**50** **60**	**C** = Through the pocket coolant capable	**Y** = Mazak® INTEGREX®

End Mount

R

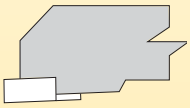


L

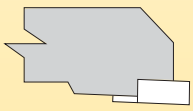


Side Mount

R



L



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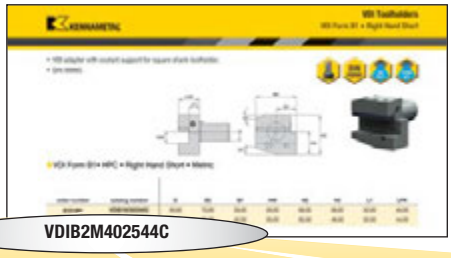


VDIB2M402544C

VDI	B2	M	40	25	44	C
Connection	Style	Metric	VDI Shank Diameter	Toolholder Shank Size	Projection Length	Internal Coolant

NOVO KNOWS SEARCH

Searching for a tool has been enhanced by Advise and Select functions from NOVO™ applications — saving you time and money.

ADVISE

Uses a rules-based approach to provide cutting tool recommendations:

- Define Machining Feature (face milling, slotting, blind hole, etc.)
- Apply Constraint Requirements (geometric, material, tolerance, etc.)
- Set Machining Sequence (single or multi-step operations, rough then finish, etc.)
- Receive Ranked Results

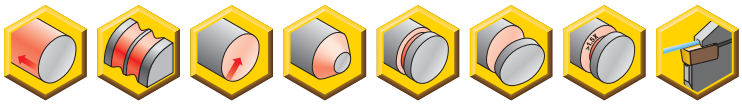
SELECT

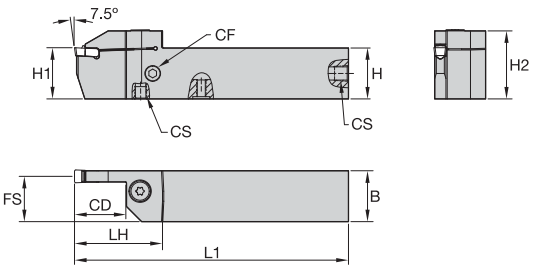
A method of selecting cutting tools from a tree structure via a hierarchy or parametric search:

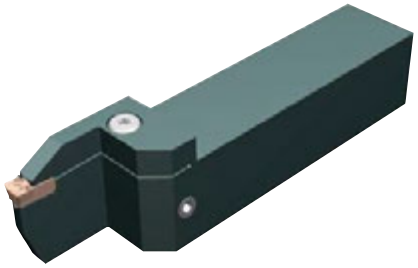
- If you know which product you are looking for, a quick search can be performed by just the catalog number or product description.
- Smart filters significantly reduce the amount of potential tooling solutions.
- After the tool is selected, NOVO also provides cutting and adaptive item options that fit with your solution.

NOVO applications can ensure you have the right tools on your machines, in the right sequence. Resulting in flawless execution that accelerates every job, and maximizes every shift. **kennametal.com/novo**

- Offers the greatest stability.
- Straight clearance for unlimited workpiece diameters.
- Through the pocket coolant capable.

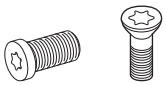






Left Hand

Integral Straight • Inch



order number	catalog number	seat size	CD	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
right hand														
5956542	**EVSMR120216**	2	.63	.750	.750	1.03	4.50	.71	1.22	–	–	–	**MS1160**	T20
5956450	**EVSMR160216**	2	.63	1.000	1.000	1.28	6.00	.96	1.22	–	–	–	**MS1160**	T20
6401859	**EVSMR160216C**	2	.63	1.000	1.000	1.33	6.00	.96	1.39	G1/8 - 28	G1/8 - 28	**MS2091**	–	25 IP
5956541	**EVSMR120222**	2	.87	.750	.750	1.10	4.50	.71	1.50	–	–	**MS2091**	–	25 IP
6401860	**EVSMR120222C**	2	.87	.750	.750	1.09	4.50	.71	1.63	M8X1	M8X1	**MS2091**	–	25 IP
5956449	**EVSMR160226**	2	1.02	1.000	1.000	1.35	6.00	.96	1.65	–	–	**MS2091**	–	25 IP
6401858	**EVSMR160226C**	2	1.02	1.000	1.000	1.34	6.00	.96	1.78	G1/8 - 28	G1/8 - 28	**MS2091**	–	25 IP
5939462	**EVSMR120316C**	3	.63	.750	.750	1.09	4.50	.69	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5939458	**EVSMR160316C**	3	.63	1.000	1.000	1.34	6.00	.94	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	–	T30
5939461	**EVSMR120322C**	3	.87	.750	.750	1.10	4.50	.69	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5939457	**EVSMR160326C**	3	1.02	1.000	1.000	1.35	6.00	.94	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	–	T30
5939460	**EVSMR120416C**	4	.63	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5939456	**EVSMR160416C**	4	.63	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	–	T30
5939459	**EVSMR120422C**	4	.87	.750	.750	1.10	4.50	.68	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5939455	**EVSMR160426C**	4	1.02	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	–	T30
5939454	**EVSMR200426C**	4	1.02	1.250	1.250	1.62	6.00	1.18	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5939463	**EVSMR200432C**	4	1.26	1.250	1.250	1.62	6.00	1.18	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955445	**EVSMR120516C**	5	.63	.750	.750	1.09	4.50	.66	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5955441	**EVSMR160516C**	5	.63	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955444	**EVSMR120522C**	5	.87	.750	.750	1.10	4.50	.66	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5955430	**EVSMR160526C**	5	1.02	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955446	**EVSMR200526C**	5	1.02	1.250	1.250	1.62	6.00	1.16	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955447	**EVSMR200532C**	5	1.26	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955443	**EVSMR120616C**	6	.63	.750	.750	1.09	4.50	.64	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5955429	**EVSMR160616C**	6	.63	1.000	1.000	1.34	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955442	**EVSMR120622C**	6	.87	.750	.750	1.10	4.50	.64	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5955428	**EVSMR160626C**	6	1.02	1.000	1.000	1.35	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955448	**EVSMR200626C**	6	1.02	1.250	1.250	1.62	6.00	1.14	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5955449	**EVSMR200632C**	6	1.26	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955450	**EVSMR240640C**	6	1.58	1.500	1.500	1.93	7.00	1.39	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955427	**EVSMR160826C**	8	1.02	1.000	1.000	1.39	6.00	.86	1.93	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955451	**EVSMR200826C**	8	1.02	1.250	1.250	1.66	6.00	1.11	1.93	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955452	**EVSMR200832C**	8	1.26	1.250	1.250	1.66	6.00	1.11	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955453	**EVSMR240840C**	8	1.58	1.500	1.500	1.93	7.00	1.36	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955454	**EVSMR201032C**	10	1.26	1.250	1.250	1.69	6.00	1.08	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5955455	**EVSMR241040C**	10	1.58	1.500	1.500	1.94	7.00	1.33	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45

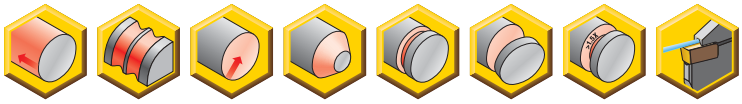
(continued)

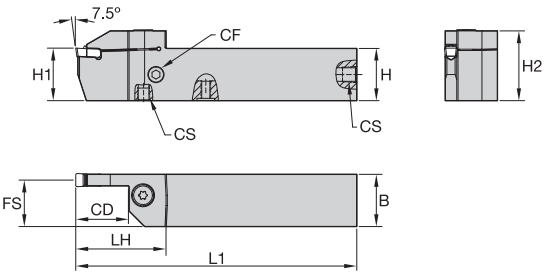
(Integral Straight • Inch — continued)

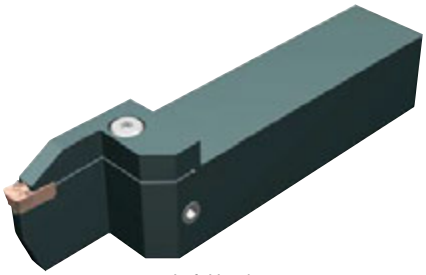
order number	catalog number	seat size	CD	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
left hand														
5956543	EVSML120216	2	.63	.750	.750	1.03	4.50	.71	1.22	–	–	–	MS1160	T20
5956545	EVSML160216	2	.63	1.000	1.000	1.28	6.00	.96	1.22	–	–	–	MS1160	T20
5956544	EVSML120222	2	.87	.750	.750	1.10	4.50	.71	1.50	–	–	MS2091	–	25 IP
5956546	EVSML160226	2	1.02	1.000	1.000	1.35	6.00	.96	1.65	–	–	MS2091	–	25 IP
5939464	EVSML120316C	3	.63	.750	.750	1.09	4.50	.69	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939466	EVSML160316C	3	.63	1.000	1.000	1.34	6.00	.94	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939465	EVSML120322C	3	.87	.750	.750	1.10	4.50	.69	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939467	EVSML160326C	3	1.02	1.000	1.000	1.35	6.00	.94	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939468	EVSML120416C	4	.63	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939470	EVSML160416C	4	.63	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939469	EVSML120422C	4	.87	.750	.750	1.10	4.50	.68	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939471	EVSML160426C	4	1.02	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939472	EVSML200426C	4	1.02	1.250	1.250	1.62	6.00	1.18	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5939453	EVSML200432C	4	1.26	1.250	1.250	1.62	6.00	1.18	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955456	EVSML120516C	5	.63	.750	.750	1.09	4.50	.66	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5955459	EVSML160516C	5	.63	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955457	EVSML120522C	5	.87	.750	.750	1.10	4.50	.66	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5955460	EVSML160526C	5	1.02	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955426	EVSML200526C	5	1.02	1.250	1.250	1.62	6.00	1.16	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955461	EVSML200532C	5	1.26	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955462	EVSML120616C	6	.63	.750	.750	1.09	4.50	.64	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5955464	EVSML160616C	6	.63	1.000	1.000	1.34	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955463	EVSML120622C	6	.87	.750	.750	1.10	4.50	.64	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5955465	EVSML160626C	6	1.02	1.000	1.000	1.35	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955466	EVSML200626C	6	1.02	1.250	1.250	1.62	6.00	1.14	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5955467	EVSML200632C	6	1.26	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955468	EVSML240640C	6	1.58	1.500	1.500	1.93	7.00	1.39	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955469	EVSML160826C	8	1.02	1.000	1.000	1.39	6.00	.86	1.93	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955470	EVSML200826C	8	1.02	1.250	1.250	1.66	6.00	1.11	1.93	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955471	EVSML200832C	8	1.26	1.250	1.250	1.66	6.00	1.11	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955472	EVSML240840C	8	1.58	1.500	1.500	1.93	7.00	1.36	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955473	EVSML201032C	10	1.26	1.250	1.250	1.69	6.00	1.08	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5955474	EVSML241040C	10	1.58	1.500	1.500	1.94	7.00	1.33	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	1099645	7	62	M5	T20	KT20	1022703
MS1162	1127019	9	80	M6	T25	KT25	1022725
MS1163	1124104	18	159	M8	T30	KT30L	1099676
MS1273	1020977	4	35.4	M4	T15	KT15	1022701
MS1490	2263299	17	151	M8	T45	KT45	1018227
MS1595	1094300	12	106	M6	T30	KT30	1099676
MS1970	1106668	12	106	M6	T30	KT30	1099676
MS2002	1621087	9	80	M6	T25	KT25	1022725
MS2091	1931147	9	80	M5	25IP	K25IP	2050113

- Offers the greatest stability.
- Straight clearance for unlimited workpiece diameters.
- Through the pocket coolant capable.







Left Hand

Integral Straight • Metric

order number	catalog number	seat size	CD	H1	H	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
right hand															
5953960	EVSMR2020K0216	2	16	20	20	20	27	125	19	31	–	–	–	MS1160	T20
5953958	EVSMR2525M0216	2	16	25	25	25	32	150	24	31	–	–	–	MS1160	T20
6401854	EVSMR2020K0216C	2	16	20	20	20	28	125	19	35	M8X1	M8X1	MS2091	–	25 IP
6401855	EVSMR2525M0216C	2	16	25	25	25	33	150	24	35	G1/8 - 28	G1/8 - 28	MS2091	–	25 IP
5953959	EVSMR2020K0222	2	22	20	20	20	29	125	19	38	–	–	MS2091	–	25 IP
6401857	EVSMR2020K0222C	2	22	20	20	20	29	125	19	41	M8X1	M8X1	MS2091	–	25 IP
5953957	EVSMR2525M0226	2	26	25	25	25	34	150	24	42	–	–	MS2091	–	25 IP
6401856	EVSMR2525M0226C	2	26	25	25	25	34	150	24	45	G1/8 - 28	G1/8 - 28	MS2091	–	25 IP
5939452	EVSMR2020K0316C	3	16	20	20	20	29	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939448	EVSMR2525M0316C	3	16	25	25	25	34	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939451	EVSMR2020K0322C	3	22	20	20	20	29	125	19	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939447	EVSMR2525M0326C	3	26	25	25	25	34	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939450	EVSMR2020K0416C	4	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939446	EVSMR2525M0416C	4	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939449	EVSMR2020K0422C	4	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5939445	EVSMR2525M0426C	4	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	–	T30
5939444	EVSMR3232P0426C	4	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5939443	EVSMR3232P0432C	4	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954258	EVSMR2020K0516C	5	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5954254	EVSMR2525M0516C	5	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954257	EVSMR2020K0522C	5	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5954253	EVSMR2525M0526C	5	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954249	EVSMR3232P0526C	5	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954248	EVSMR3232P0532C	5	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954256	EVSMR2020K0616C	6	16	20	20	20	29	125	20	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5954252	EVSMR2525M0616C	6	16	25	25	25	34	150	25	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954255	EVSMR2020K0622C	6	22	20	20	20	29	125	20	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	–	T30
5954251	EVSMR2525M0626C	6	26	25	25	25	34	150	25	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954247	EVSMR3232P0626C	6	26	32	32	32	42	170	32	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	–	T30
5954246	EVSMR3232P0632C	6	32	32	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954242	EVSMR4040R0640C	6	40	40	40	40	51	200	37	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954250	EVSMR2525M0826C	8	26	25	25	25	35	150	21	49	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954245	EVSMR3232P0826C	8	26	32	32	32	43	170	28	49	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954244	EVSMR3232P0832C	8	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954241	EVSMR4040R0840C	8	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954243	EVSMR3232P1032C	10	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45
5954240	EVSMR4040R1040C	10	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	–	T45

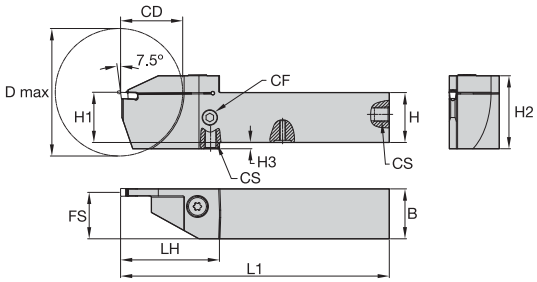
(continued)

(Integral Straight • Metric — continued)

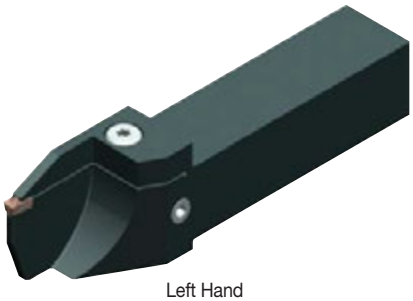
order number	catalog number	seat size	CD	H1	H	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
left hand															
5953956	EVSML2020K0216	2	16	20	20	20	27	125	19	31	—	—	—	MS1160	T20
5953954	EVSML2525M0216	2	16	25	25	25	32	150	24	31	—	—	—	MS1160	T20
6401881	EVSML2525M0216C	2	16	25	25	25	33	150	24	35	G1/8 - 28	G1/8 - 28	MS2091	—	25 IP
5953955	EVSML2020K0222	2	22	20	20	20	29	125	19	38	—	—	MS2091	—	25 IP
5953953	EVSML2525M0226	2	26	25	25	25	34	150	24	42	—	—	MS2091	—	25 IP
5939442	EVSML2020K0316C	3	16	20	20	20	29	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5939438	EVSML2525M0316C	3	16	25	25	25	34	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	—	T30
5939441	EVSML2020K0322C	3	22	20	20	20	29	125	19	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5939437	EVSML2525M0326C	3	26	25	25	25	34	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	—	T30
5939440	EVSML2020K0416C	4	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5939436	EVSML2525M0416C	4	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	—	T30
5939439	EVSML2020K0422C	4	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5939435	EVSML2525M0426C	4	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1595	—	T30
5939433	EVSML3232P0426C	4	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5939432	EVSML3232P0432C	4	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954239	EVSML2020K0516C	5	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5954235	EVSML2525M0516C	5	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954238	EVSML2020K0522C	5	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5954234	EVSML2525M0526C	5	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954220	EVSML3232P0526C	5	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954219	EVSML3232P0532C	5	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954237	EVSML2020K0616C	6	16	20	20	20	29	125	17	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5954233	EVSML2525M0616C	6	16	25	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954236	EVSML2020K0622C	6	22	20	20	20	29	125	17	43	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	—	T30
5954232	EVSML2525M0626C	6	26	25	25	25	34	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954218	EVSML3232P0626C	6	26	32	32	32	42	170	29	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	—	T30
5954217	EVSML3232P0632C	6	32	32	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954213	EVSML4040R0640C	6	40	40	40	40	51	200	37	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954231	EVSML2525M0826C	8	26	25	25	25	35	150	21	49	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954216	EVSML3232P0826C	8	26	32	32	32	43	170	28	49	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954215	EVSML3232P0832C	8	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954212	EVSML4040R0840C	8	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954214	EVSML3232P1032C	10	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45
5954211	EVSML4040R1040C	10	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	—	T45

screw catalog number	screw order number	torque Nm	torque in. lbs.	thread	socket	wrench catalog number	wrench order number
MS1160	1099645	7	62	M5	T20	KT20	1022703
MS1162	1127019	9	80	M6	T25	KT25	1022725
MS1163	1124104	18	159	M8	T30	KT30L	1099676
MS1273	1020977	4	35.4	M4	T15	KT15	1022701
MS1490	2263299	17	151	M8	T45	KT45	1018227
MS1595	1094300	12	106	M6	T30	KT30	1099676
MS1970	1106668	12	106	M6	T30	KT30	1099676
MS2002	1621087	9	80	M6	T25	KT25	1022725
MS2091	1931147	9	80	M5	25IP	K25IP	2050113

- Through the pocket coolant capable.
- Reinforced for added support in specific workpiece diameters.

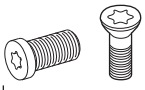


CD = Maximum cut-off depth for solid bars.
D max = Maximum bar diameter for deep grooving or cut-off of tubes.



Left Hand

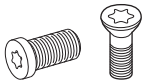
Integral Reinforced Straight Top Clamp • Inch



order number	catalog number	seat size	CD	D max	H1	B	H2	H3	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
right hand																
6179398	**EVSCTR081B16**	1B	.63	1.654	.500	.500	.93	—	4.50	.47	1.22	—	—	**—**	**MS1160**	T20
6179399	**EVSCTR081F16**	1F	.63	1.654	.500	.500	.93	—	4.50	.47	1.22	—	—	**—**	**MS1160**	T20
6179400	**EVSCTR080216**	2	.63	1.654	.500	.500	.93	—	4.50	.46	1.22	—	—	**—**	**MS1160**	T20
5980815	**EVSCTR100216**	2	.63	1.654	.625	.625	.90	—	4.50	.59	1.22	—	—	**—**	**MS1160**	T20
5980818	**EVSCTR120216**	2	.63	1.654	.750	.750	1.03	—	4.50	.71	1.22	—	—	**—**	**MS1160**	T20
5980913	**EVSCTR160216**	2	.63	1.654	1.000	1.000	1.28	—	6.00	.96	1.22	—	—	**—**	**MS1160**	T20
5980914	**EVSCTR160226**	2	1.02	2.441	1.000	1.000	1.35	—	6.00	.96	1.65	—	—	**MS2091**	**—**	25 IP
6179721	**EVSCTR080316C**	3	.63	2.047	.500	.500	.93	.16	4.50	.45	1.32	M8X1.25	M8X1.25	**MS1944**	**—**	T25
5980816	**EVSCTR100316C**	3	.63	2.047	.625	.625	.92	—	4.50	.57	1.42	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980819	**EVSCTR120316C**	3	.63	2.047	.750	.750	1.09	—	4.50	.69	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980915	**EVSCTR160316C**	3	.63	2.441	1.000	1.000	1.34	—	6.00	.94	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980820	**EVSCTR120326C**	3	1.02	2.441	.750	.750	1.26	.16	4.50	.69	1.85	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980916	**EVSCTR160326C**	3	1.02	2.441	1.000	1.000	1.35	—	6.00	.94	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980817	**EVSCTR100416C**	4	.63	2.047	.625	.625	.92	—	4.50	.55	1.42	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980911	**EVSCTR120416C**	4	.63	2.047	.750	.750	1.09	—	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980912	**EVSCTR120426C**	4	1.02	2.441	.750	.750	1.26	.16	4.50	.70	1.85	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980917	**EVSCTR160426C**	4	1.02	2.441	1.000	1.000	1.35	—	6.00	.92	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980918	**EVSCTR160432C**	4	1.26	2.520	1.000	1.000	1.51	.16	6.00	.92	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980932	**EVSCTR200432C**	4	1.26	2.520	1.250	1.250	1.62	—	6.00	1.25	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980919	**EVSCTR160526C**	5	1.02	2.441	1.000	1.000	1.35	—	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980920	**EVSCTR160532C**	5	1.26	2.441	1.000	1.000	1.53	.16	6.00	.91	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980933	**EVSCTR200540C**	5	1.58	3.228	1.250	1.250	1.82	.16	6.00	1.25	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45
left hand																
6179722	**EVSCTL081B16**	1B	.63	1.654	.500	.500	.93	—	4.50	.47	1.22	—	—	**—**	**MS1160**	T20
6179723	**EVSCTL081F16**	1F	.63	1.654	.500	.500	.93	—	4.50	.47	1.22	—	—	**—**	**MS1160**	T20
6179724	**EVSCTL080216**	2	.63	1.654	.500	.500	.93	—	4.50	.46	1.22	—	—	**—**	**MS1160**	T20
5980938	**EVSCTL100216**	2	.63	1.654	.625	.625	.90	—	4.50	.59	1.22	—	—	**—**	**MS1160**	T20

(*continued*)

(Integral Reinforced Straight Top Clamp • Inch — continued)

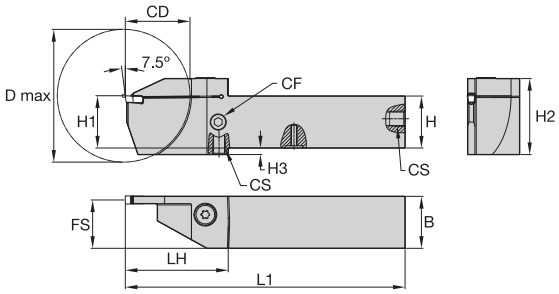


order number	catalog number	seat size	CD	D max	H1	B	H2	H3	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
5981011	**EVSCTL120216**	2	.63	1.654	.750	.750	1.03	—	4.50	.71	1.22	—	—	**—**	**MS1160**	T20
5981016	**EVSCTL160216**	2	.63	1.654	1.000	1.000	1.28	—	6.00	.96	1.22	—	—	**—**	**MS1160**	T20
5981017	**EVSCTL160226**	2	1.02	2.441	1.000	1.000	1.35	—	6.00	.96	1.65	—	—	**MS2091**	**—**	25 IP
6179725	**EVSCTL080316C**	3	.63	2.047	.500	.500	.93	.16	4.50	.45	1.32	M8X1.25	M8X1.25	**MS1944**	**—**	T25
5980939	**EVSCTL100316C**	3	.63	2.047	.625	.625	.92	—	4.50	.57	1.42	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5981012	**EVSCTL120316C**	3	.63	2.047	.750	.750	1.09	—	4.50	.69	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5981018	**EVSCTL160316C**	3	.63	2.441	1.000	1.000	1.34	—	6.00	.94	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5981013	**EVSCTL120326C**	3	1.02	2.441	.750	.750	1.26	.16	4.50	.69	1.85	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5981019	**EVSCTL160326C**	3	1.02	2.441	1.000	1.000	1.35	—	6.00	.94	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980940	**EVSCTL100416C**	4	.63	2.047	.625	.625	.92	—	4.50	.55	1.42	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5981014	**EVSCTL120416C**	4	.63	2.047	.750	.750	1.09	—	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5981015	**EVSCTL120426C**	4	1.02	2.441	.750	.750	1.26	.16	4.50	.70	1.85	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5981020	**EVSCTL160426C**	4	1.02	2.441	1.000	1.000	1.35	—	6.00	.92	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5981021	**EVSCTL160432C**	4	1.26	2.520	1.000	1.000	1.51	.16	6.00	.92	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5981024	**EVSCTL200432C**	4	1.26	2.520	1.250	1.250	1.62	—	6.00	1.25	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5981022	**EVSCTL160526C**	5	1.02	2.441	1.000	1.000	1.35	—	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5981023	**EVSCTL160532C**	5	1.26	2.520	1.000	1.000	1.53	.16	6.00	.91	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5981025	**EVSCTL200540C**	5	1.58	3.228	1.250	1.250	1.82	.16	6.00	1.25	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45

NOTE: Through the pocket coolant available in seat sizes 3 and higher.

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- Through the pocket coolant capable.
- Reinforced for added support in specific workpiece diameters.



CD = Maximum cut-off depth for solid bars.
D max = Maximum bar diameter for deep grooving or cut-off of tubes.

Left Hand

Integral Reinforced Straight Top Clamp • Metric

order number	catalog number	seat size	CD	D max	H1	H	B	H2	H3	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
right hand																	
6179757	**EVSCTR1212K1B16**	1B	16	42	12	12	12	23	4	125	11	31	—	—	—	**MS1160**	T20
6179758	**EVSCTR1212K1F16**	1F	16	42	12	12	12	23	4	125	11	31	—	—	—	**MS1160**	T20
6179759	**EVSCTR1212K0216**	2	16	42	12	12	12	23	4	125	11	31	—	—	—	**MS1160**	T20
5980139	**EVSCTR1616K0216**	2	16	42	16	16	16	23	—	125	15	31	—	—	—	**MS1160**	T20
5980762	**EVSCTR2020K0216**	2	16	42	20	20	20	27	—	125	19	31	—	—	—	**MS1160**	T20
5980767	**EVSCTR2525M0216**	2	16	42	25	25	25	32	—	150	24	31	—	—	—	**MS1160**	T20
5980768	**EVSCTR2525M0226**	2	26	62	25	25	25	34	—	150	24	42	—	—	**MS2091**	—	25 IP
6179755	**EVSCTR1212K0316C**	3	16	52	12	12	12	23	4	125	11	34	M8X1.25	M8X1.25	**MS1944**	—	T25
5980140	**EVSCTR1616K0316C**	3	16	52	16	16	16	24	—	125	15	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	—	25 IP
5980763	**EVSCTR2020K0316C**	3	16	52	20	20	20	29	—	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	—	T30
5980138	**EVSCTR2525M0316C**	3	16	62	25	25	25	34	—	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	—	T30
5980764	**EVSCTR2020K0326C**	3	26	62	20	20	20	33	4	125	19	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	—	T30
5980769	**EVSCTR2525M0326C**	3	26	62	25	25	25	34	—	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	—	T30
5980761	**EVSCTR1616K0416C**	4	16	52	16	16	16	24	—	125	14	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	—	25 IP
5980765	**EVSCTR2020K0416C**	4	16	52	20	20	20	29	—	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	—	T30
5980766	**EVSCTR2020K0426C**	4	26	62	20	20	20	33	—	125	18	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	—	T30
5980770	**EVSCTR2525M0426C**	4	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	—	T30
5980771	**EVSCTR2525M0432C**	4	32	64	25	25	25	38	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	—	T30
5980774	**EVSCTR3232P0432C**	4	32	64	32	32	32	42	—	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	—	T30
5980772	**EVSCTR2525M0526C**	5	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	—	T30
5980773	**EVSCTR2525M0532C**	5	32	64	25	25	25	39	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	—	T30
5980775	**EVSCTR3232P0540C**	5	40	82	32	32	32	47	4	170	30	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	—	T45

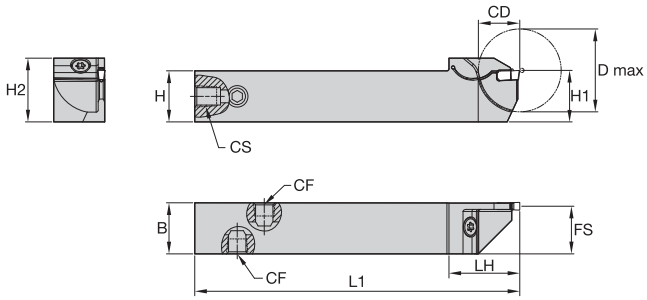
(continued)

(Integral Reinforced Straight Top Clamp • Metric — continued)

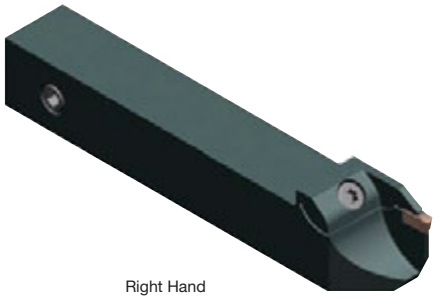
order number	catalog number	seat size	CD	D max	H1	H	B	H2	H3	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
left hand																	
6179760	**EVSCTL1212K1B16**	1B	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
6179761	**EVSCTL1212K1F16**	1F	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
6179762	**EVSCTL1212K0216**	2	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
5980777	**EVSCTL1616K0216**	2	16	42	16	16	16	23	—	125	15	31	—	—	**—**	**MS1160**	T20
5980780	**EVSCTL2020K0216**	2	16	42	20	20	20	27	—	125	19	31	—	—	**—**	**MS1160**	T20
5980805	**EVSCTL2525M0216**	2	16	42	25	25	25	32	—	150	24	31	—	—	**—**	**MS1160**	T20
5980806	**EVSCTL2525M0226**	2	26	62	25	25	25	34	—	150	24	42	—	—	**MS2091**	**—**	25 IP
6179756	**EVSCTL1212K0316C**	3	16	52	12	12	12	23	4	125	11	34	M8X1.25	M8X1.25	**MS1944**	**—**	T25
5980778	**EVSCTL1616K0316C**	3	16	52	16	16	16	24	—	125	15	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980801	**EVSCTL2020K0316C**	3	16	52	20	20	20	29	—	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980776	**EVSCTL2525M0316C**	3	16	62	25	25	25	34	—	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980802	**EVSCTL2020K0326C**	3	26	62	20	20	20	33	4	125	19	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980807	**EVSCTL2525M0326C**	3	26	62	25	25	25	34	—	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980779	**EVSCTL1616K0416C**	4	16	52	16	16	16	24	—	125	14	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980803	**EVSCTL2020K0416C**	4	16	52	20	20	20	29	—	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980804	**EVSCTL2020K0426C**	4	26	62	20	20	20	33	—	125	18	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980808	**EVSCTL2525M0426C**	4	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980809	**EVSCTL2525M0432C**	4	32	64	25	25	25	38	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980812	**EVSCTL3232P0432C**	4	32	64	32	32	32	42	—	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980810	**EVSCTL2525M0526C**	5	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980811	**EVSCTL2525M0532C**	5	32	64	25	25	25	39	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980813	**EVSCTL3232P0540C**	5	40	82	32	32	32	47	4	170	30	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45

NOTE: Through the pocket coolant available in seat sizes 3 and higher.

screw catalog number	screw order number	torque Nm	torque in. lbs.	thread	socket	wrench catalog number	wrench order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**



CD = Maximum cut-off depth for solid bars.
D max = Maximum bar diameter for deep grooving or cut-off of tubes.



Right Hand

Integral Reinforced Front Clamp • Inch

order number	catalog number	seat size	CD	D max	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
right hand														
6180116	**EVSCFR061B10**	1B	.39	.787	.375	.375	.53	4.50	.35	.81	—	—	**191.916**	T15
6180119	**EVSCFR081B10**	1B	.39	.787	.500	.500	.66	4.50	.47	.81	—	—	**191.916**	T15
6180120	**EVSCFR081B13**	1B	.51	1.024	.500	.500	.66	4.50	.47	.93	—	—	**191.916**	T15
6180129	**EVSCFR101B16**	1B	.63	1.260	.625	.625	.80	4.50	.60	1.04	—	—	**MS1160**	T20
6180143	**EVSCFR121B16**	1B	.63	1.260	.750	.750	.93	4.50	.72	1.04	—	—	**MS1160**	T20
6180117	**EVSCFR061F10**	1F	.39	.787	.375	.375	.53	4.50	.34	.81	—	—	**191.916**	T15
6180121	**EVSCFR081F10**	1F	.39	.787	.500	.500	.66	4.50	.47	.81	—	—	**191.916**	T15
6180124	**EVSCFR081F13**	1F	.51	1.024	.500	.500	.66	4.50	.47	.93	—	—	**191.916**	T15
6180130	**EVSCFR101F16**	1F	.63	1.260	.625	.625	.80	4.50	.59	1.04	—	—	**MS1160**	T20
6180144	**EVSCFR121F16**	1F	.63	1.260	.750	.750	.93	4.50	.72	1.04	—	—	**MS1160**	T20
6180118	**EVSCFR060210**	2	.39	.787	.375	.375	.53	4.50	.34	.81	—	—	**191.916**	T15
6180125	**EVSCFR080210**	2	.39	.787	.500	.500	.66	4.50	.46	.81	—	—	**191.916**	T15
6180126	**EVSCFR080216**	2	.63	1.260	.500	.500	.66	4.50	.46	1.04	—	—	**191.916**	T15
6180141	**EVSCFR100216**	2	.63	1.260	.625	.625	.80	4.50	.59	1.04	—	—	**MS1160**	T20
6180146	**EVSCFR120216**	2	.63	1.260	.750	.750	.93	4.50	.71	1.04	—	—	**MS1160**	T20
6180127	**EVSCFR080310C**	3	.39	.787	.500	.500	.69	4.50	.44	.85	M8X1.25	M8X1.25	**191.916**	T15
6180128	**EVSCFR080316C**	3	.63	1.260	.500	.500	.69	4.50	.44	1.08	M8X1.25	M8X1.25	**191.916**	T15
6180142	**EVSCFR100316C**	3	.63	1.260	.625	.625	.81	4.50	.57	1.08	M8X1.25	M8X1.25	**MS1160**	T20
6180147	**EVSCFR120316C**	3	.63	1.260	.750	.750	.94	4.50	.69	1.08	M8X1.25	M8X1.25	**MS1160**	T20

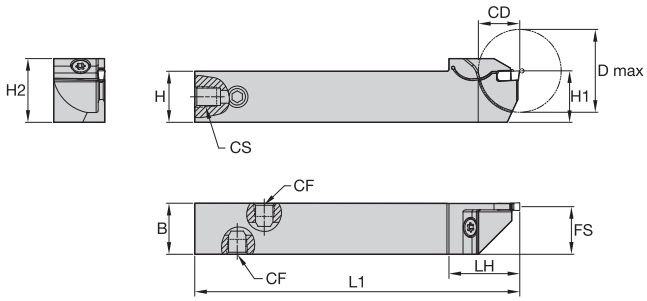
(continued)

(Integral Reinforced Front Clamp • Inch — continued)

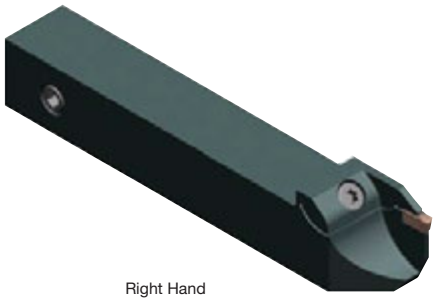
order number	catalog number	seat size	CD	D max	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
left hand														
6179726	**EVSCFL061B10**	1B	.39	.787	.375	.375	.53	4.50	.35	.81	—	—	**191.916**	T15
6179729	**EVSCFL081B10**	1B	.39	.787	.500	.500	.66	4.50	.47	.81	—	—	**191.916**	T15
6179730	**EVSCFL081B13**	1B	.51	1.024	.500	.500	.66	4.50	.47	.93	—	—	**191.916**	T15
6179737	**EVSCFL101B16**	1B	.63	1.260	.625	.625	.80	4.50	.60	1.04	—	—	**MS1160**	T20
6179751	**EVSCFL121B16**	1B	.63	1.260	.750	.750	.93	4.50	.72	1.04	—	—	**MS1160**	T20
6179727	**EVSCFL061F10**	1F	.39	.787	.375	.375	.53	4.50	.34	.81	—	—	**191.916**	T15
6179731	**EVSCFL081F10**	1F	.39	.787	.500	.500	.66	4.50	.47	.81	—	—	**191.916**	T15
6179732	**EVSCFL081F13**	1F	.51	1.024	.500	.500	.66	4.50	.47	.93	—	—	**191.916**	T15
6179738	**EVSCFL101F16**	1F	.63	1.260	.625	.625	.80	4.50	.59	1.04	—	—	**MS1160**	T20
6179752	**EVSCFL121F16**	1F	.63	1.260	.750	.750	.93	4.50	.72	1.04	—	—	**MS1160**	T20
6179728	**EVSCFL060210**	2	.39	.787	.375	.375	.53	4.50	.34	.81	—	—	**191.916**	T15
6179733	**EVSCFL080210**	2	.39	.787	.500	.500	.66	4.50	.46	.81	—	—	**191.916**	T15
6179734	**EVSCFL080216**	2	.63	1.260	.500	.500	.66	4.50	.46	1.04	—	—	**191.916**	T15
6179739	**EVSCFL100216**	2	.63	1.260	.625	.625	.80	4.50	.59	1.04	—	—	**MS1160**	T20
6179753	**EVSCFL120216**	2	.63	1.260	.750	.750	.93	4.50	.71	1.04	—	—	**MS1160**	T20
6179735	**EVSCFL080310C**	3	.39	.787	.500	.500	.69	4.50	.44	.85	M8X1.25	M8X1.25	**191.916**	T15
6179736	**EVSCFL080316C**	3	.63	1.260	.500	.500	.69	4.50	.44	1.08	M8X1.25	M8X1.25	**191.916**	T15
6179740	**EVSCFL100316C**	3	.63	1.260	.625	.625	.81	4.50	.57	1.08	M8X1.25	M8X1.25	**MS1160**	T20
6179754	**EVSCFL120316C**	3	.63	1.260	.750	.750	.94	4.50	.69	1.08	M8X1.25	M8X1.25	**MS1160**	T20

NOTE: Through the pocket coolant available in seat sizes 3 and higher.

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**



CD = Maximum cut-off depth for solid bars.
D max = Maximum bar diameter for deep grooving or cut-off of tubes.



Right Hand

Integral Reinforced Front Clamp • Metric

order number	catalog number	seat size	CD	D max	H1	H	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
right hand															
6179763	**EVSCFR1010K1B10**	1B	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179766	**EVSCFR1212K1B10**	1B	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179767	**EVSCFR1212K1B13**	1B	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179774	**EVSCFR1616K1B16**	1B	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179778	**EVSCFR2020K1B16**	1B	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179764	**EVSCFR1010K1F10**	1F	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179768	**EVSCFR1212K1F10**	1F	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179769	**EVSCFR1212K1F13**	1F	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179775	**EVSCFR1616K1F16**	1F	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179779	**EVSCFR2020K1F16**	1F	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179765	**EVSCFR1010K0210**	2	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179770	**EVSCFR1212K0210**	2	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179771	**EVSCFR1212K0216**	2	16	32	12	12	12	16	125	11	27	—	—	**191.916**	T15
6179776	**EVSCFR1616K0216**	2	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179780	**EVSCFR2020K0216**	2	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179772	**EVSCFR1212K0310C**	3	10	20	12	12	12	17	125	11	22	M8X1.25	M8X1.25	**191.916**	T15
6179773	**EVSCFR1212K0316C**	3	16	32	12	12	12	17	125	11	28	M8X1.25	M8X1.25	**191.916**	T15
6179777	**EVSCFR1616K0316C**	3	16	32	16	16	16	21	125	15	28	M8X1.25	M8X1.25	**MS1160**	T20
6179781	**EVSCFR2020K0316C**	3	16	32	20	20	20	25	125	19	28	M8X1.25	M8X1.25	**MS1160**	T20

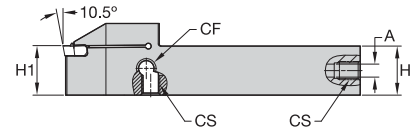
(continued)

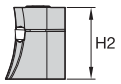
(Integral Reinforced Front Clamp • Metric — continued)

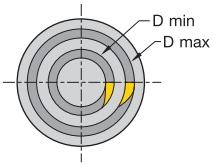
order number	catalog number	seat size	CD	D max	H1	H	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
left hand															
6179709	**EVSCFL1010K1B10**	1B	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179922	**EVSCFL1212K1B10**	1B	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179923	**EVSCFL1212K1B13**	1B	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179930	**EVSCFL1616K1B16**	1B	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179934	**EVSCFL2020K1B16**	1B	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179710	**EVSCFL1010K1F10**	1F	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179924	**EVSCFL1212K1F10**	1F	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179925	**EVSCFL1212K1F13**	1F	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179931	**EVSCFL1616K1F16**	1F	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179935	**EVSCFL2020K1F16**	1F	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179921	**EVSCFL1010K0210**	2	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179926	**EVSCFL1212K0210**	2	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179927	**EVSCFL1212K0216**	2	16	32	12	12	12	16	125	11	27	—	—	**191.916**	T15
6179932	**EVSCFL1616K0216**	2	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179936	**EVSCFL2020K0216**	2	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179928	**EVSCFL1212K0310C**	3	10	20	12	12	12	17	125	11	22	M8X1.25	M8X1.25	**191.916**	T15
6179929	**EVSCFL1212K0316C**	3	16	32	12	12	12	17	125	11	28	M8X1.25	M8X1.25	**191.916**	T15
6179933	**EVSCFL1616K0316C**	3	16	32	16	16	16	21	125	15	28	M8X1.25	M8X1.25	**MS1160**	T20
6179937	**EVSCFL2020K0316C**	3	16	32	20	20	20	25	125	19	28	M8X1.25	M8X1.25	**MS1160**	T20

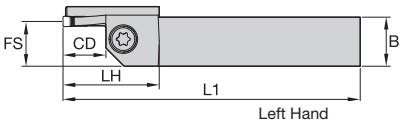
NOTE: Through the pocket coolant available in seat sizes 3 and higher.

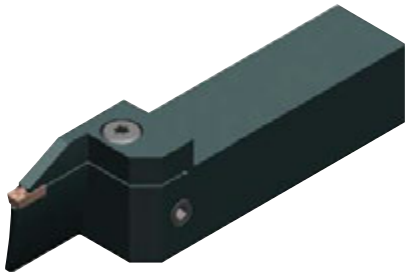
screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

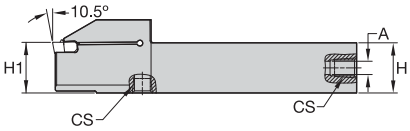


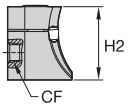


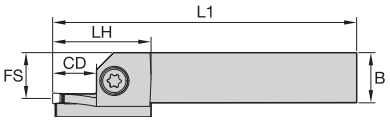


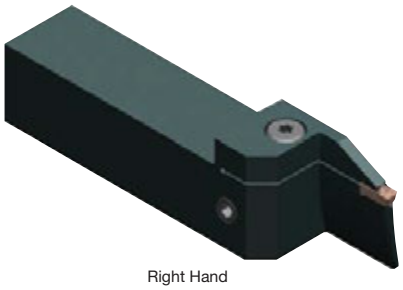



Left Hand








Right Hand

Integral Face Grooving Straight Outboard • Inch

order number	catalog number	seat size	CD	D min	D max	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
right hand															
6080418	**EVSBR1203120350 40C**	3	.47	1.378	1.575	.751	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117117	**EVSBR1203120400 50C**	3	.47	1.575	1.969	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117119	**EVSBR1203120500 60C**	3	.47	1.969	2.362	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117351	**EVSBR1203120600 75C**	3	.47	2.362	2.953	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117353	**EVSBR1203120750 100C**	3	.47	2.953	3.937	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080489	**EVSBR1603121001 80C**	3	.47	3.937	7.087	1.000	1.000	1.34	6.00	.95	1.30	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080491	**EVSBR1603121802 50C**	3	.47	7.087	9.843	1.000	1.000	1.34	6.00	.95	1.30	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080477	**EVSBR1603200600 75C**	3	.79	2.362	2.953	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080479	**EVSBR1603200751 00C**	3	.79	2.953	3.937	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080481	**EVSBR1603201001 80C**	3	.79	3.937	7.087	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080483	**EVSBR1603201802 50C**	3	.79	7.087	9.843	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080419	**EVSBR1204160400 50C**	4	.63	1.575	1.969	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080475	**EVSBR1204160500 60C**	4	.63	1.969	2.362	.750	.750	1.34	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117355	**EVSBR1204160600 75C**	4	.63	2.362	2.953	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117357	**EVSBR1204160751 00C**	4	.63	2.953	3.937	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117402	**EVSBR1604161001 80C**	4	.63	3.937	7.087	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117404	**EVSBR1604161802 50C**	4	.63	7.087	9.843	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117359	**EVSBR1604260600 75C**	4	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117381	**EVSBR1604260751 00C**	4	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117383	**EVSBR1604261001 80C**	4	1.02	3.937	7.087	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117386	**EVSBR1604261802 50C**	4	1.02	7.087	9.843	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080420	**EVSBR1605160500 60C**	5	.63	1.969	2.362	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117166	**EVSBR1605160600 75C**	5	.63	2.362	2.953	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117170	**EVSBR1605160751 00C**	5	.63	2.953	3.937	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117264	**EVSBR1605161001 80C**	5	.63	3.937	7.087	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117268	**EVSBR1605161802 50C**	5	.63	7.087	9.843	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117272	**EVSBR1605162503 50C**	5	.63	9.843	13.780	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30

(continued)

(Integral Face Grooving Straight Outboard • Inch — continued)

order number	catalog number	seat size	CD	D min	D max	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
6117276	**EVSBR160516350999C**	5	.63	13.780	39.331	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117164	**EVSBR160526050060C**	5	1.02	1.969	2.362	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117168	**EVSBR160526060075C**	5	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117262	**EVSBR160526075100C**	5	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117280	**EVSBR200532100180C**	5	1.26	3.937	7.087	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117282	**EVSBR200532180250C**	5	1.26	7.087	9.843	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117284	**EVSBR200532250350C**	5	1.26	9.843	13.780	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117286	**EVSBR200532350999C**	5	1.26	13.780	39.331	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079180	**EVSBR160616060075C**	6	.63	2.362	2.953	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079354	**EVSBR160616075100C**	6	.63	2.953	3.937	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079358	**EVSBR160616100180C**	6	.63	3.937	7.087	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079362	**EVSBR160616180250C**	6	.63	7.087	9.843	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079366	**EVSBR160616250350C**	6	.63	9.843	13.780	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079370	**EVSBR160616350999C**	6	.63	13.780	39.331	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079352	**EVSBR160626060075C**	6	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079356	**EVSBR160626075100C**	6	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079374	**EVSBR200632100180C**	6	1.26	3.937	7.087	1.250	1.000	1.66	6.00	1.14	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6079376	**EVSBR200632180250C**	6	1.26	7.087	9.843	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6079378	**EVSBR200632250350C**	6	1.26	9.843	13.780	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6079380	**EVSBR200632350999C**	6	1.26	13.780	39.331	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
left hand															
6117118	**EVSBL120312040050C**	3	.47	1.575	1.969	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117120	**EVSBL120312050060C**	3	.47	1.969	2.362	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117352	**EVSBL120312060075C**	3	.47	2.362	2.953	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117354	**EVSBL120312075100C**	3	.47	2.953	3.937	.750	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080472	**EVSBL120312035040C**	3	.47	1.378	1.575	.751	.750	1.09	4.50	.70	1.30	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080490	**EVSBL160312100180C**	3	.47	3.937	7.087	1.000	1.000	1.34	6.00	.95	1.30	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080492	**EVSBL160312180250C**	3	.47	7.087	9.843	1.000	1.000	1.34	6.00	.95	1.30	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080480	**EVSBL160320075100C**	3	.79	2.953	3.937	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080482	**EVSBL160320100180C**	3	.79	3.937	7.087	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080484	**EVSBL160320180250C**	3	.79	7.087	9.843	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080478	**EVSBL160320060075C**	3	.79	2.362	2.953	1.000	1.000	1.35	6.00	.95	1.61	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080473	**EVSBL120416040050C**	4	.63	1.575	1.969	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080476	**EVSBL120416050060C**	4	.63	1.969	2.362	.750	.750	1.34	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117356	**EVSBL120416060075C**	4	.63	2.362	2.953	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117358	**EVSBL120416075100C**	4	.63	2.953	3.937	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6117403	**EVSBL160416100180C**	4	.63	3.937	7.087	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117405	**EVSBL160416180250C**	4	.63	7.087	9.843	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117360	**EVSBL160426060075C**	4	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117382	**EVSBL160426075100C**	4	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117384	**EVSBL160426100180C**	4	1.02	3.937	7.087	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117387	**EVSBL160426180250C**	4	1.02	7.087	9.843	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080474	**EVSBL160516050060C**	5	.63	1.969	2.362	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117167	**EVSBL160516060075C**	5	.63	2.362	2.953	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117261	**EVSBL160516075100C**	5	.63	2.953	3.937	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117265	**EVSBL160516100180C**	5	.63	3.937	7.087	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117269	**EVSBL160516180250C**	5	.63	7.087	9.843	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117273	**EVSBL160516250350C**	5	.63	9.843	13.780	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117277	**EVSBL160516350999C**	5	.63	13.780	39.331	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117165	**EVSBL160526050060C**	5	1.02	1.969	2.362	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117169	**EVSBL160526060075C**	5	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117263	**EVSBL160526075100C**	5	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117281	**EVSBL200532100180C**	5	1.26	3.937	7.087	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117283	**EVSBL200532180250C**	5	1.26	7.087	9.843	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30

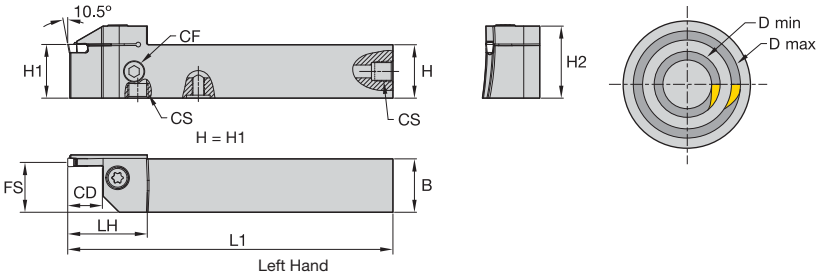
(continued)

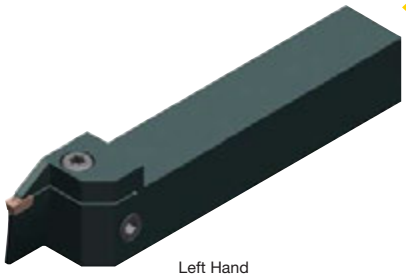
(Integral Face Grooving Straight Outboard • Inch — continued)

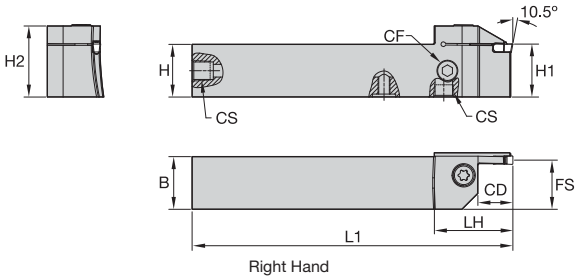
order number	catalog number	seat size	CD	D min	D max	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
6117384	**EVSBL1604261001800**	4	1.02	3.937	7.087	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117387	**EVSBL1604261802500**	4	1.02	7.087	9.843	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080474	**EVSBL1605160500600**	5	.63	1.969	2.362	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117167	**EVSBL1605160600750**	5	.63	2.362	2.953	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117261	**EVSBL1605160751000**	5	.63	2.953	3.937	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117265	**EVSBL1605161001800**	5	.63	3.937	7.087	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117269	**EVSBL1605161802500**	5	.63	7.087	9.843	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117273	**EVSBL1605162503500**	5	.63	9.843	13.780	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117277	**EVSBL1605163509990**	5	.63	13.780	39.331	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117165	**EVSBL1605260500600**	5	1.02	1.969	2.362	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117169	**EVSBL1605260600750**	5	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117263	**EVSBL1605260751000**	5	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117281	**EVSBL2005321001800**	5	1.26	3.937	7.087	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117283	**EVSBL2005321802500**	5	1.26	7.087	9.843	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117285	**EVSBL2005322503500**	5	1.26	9.843	13.780	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6117287	**EVSBL2005323509990**	5	1.26	13.780	39.331	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079351	**EVSBL1606160600750**	6	.63	2.362	2.953	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079355	**EVSBL1606160751000**	6	.63	2.953	3.937	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079359	**EVSBL1606161001800**	6	.63	3.937	7.087	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079363	**EVSBL1606161802500**	6	.63	7.087	9.843	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079367	**EVSBL1606162503500**	6	.63	9.843	13.780	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079371	**EVSBL1606163509990**	6	.63	13.780	39.331	1.000	1.000	1.34	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079353	**EVSBL1606260600750**	6	1.02	2.362	2.953	1.000	1.000	1.35	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079357	**EVSBL1606260751000**	6	1.02	2.953	3.937	1.000	1.000	1.35	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6079375	**EVSBL2006321001800**	6	1.26	3.937	7.087	1.250	1.000	1.66	6.00	1.14	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6079377	**EVSBL2006321802500**	6	1.26	7.087	9.843	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6079379	**EVSBL2006322503500**	6	1.26	9.843	13.780	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6079381	**EVSBL2006323509990**	6	1.26	13.780	39.331	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45

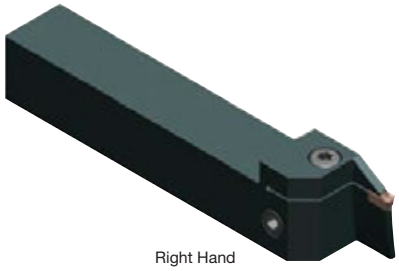
NOTE: Through the pocket coolant available in seat sizes 3 and higher.

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**




Left Hand




Right Hand

Integral Face Grooving Straight Outboard • Metric

order number	catalog number	seat size	CD	D max	D min	W min	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
right hand															
6080031	**EVSBR2020K0312035040C**	3	12	40	35	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116561	**EVSBR2020K0312040050C**	3	12	50	40	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T20
6116563	**EVSBR2020K0312050060C**	3	12	60	50	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116567	**EVSBR2020K0312060075C**	3	12	75	60	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116569	**EVSBR2020K0312075100C**	3	12	100	75	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080067	**EVSBR2525M0312100180C**	3	12	180	100	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080069	**EVSBR2525M0312180250C**	3	12	250	180	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080053	**EVSBR2525M0320060075C**	3	20	75	60	25	25	34	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080055	**EVSBR2525M0320075100C**	3	20	100	75	25	25	34	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080057	**EVSBR2525M0320100180C**	3	20	180	100	25	25	34	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080060	**EVSBR2525M0320180250C**	3	20	250	180	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080033	**EVSBR2020K0416040050C**	4	16	50	40	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080040	**EVSBR2020K0416050060C**	4	16	60	50	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116571	**EVSBR2020K0416060075C**	4	16	75	60	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116573	**EVSBR2020K0416075100C**	4	16	100	75	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116587	**EVSBR2525M0416100180C**	4	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6116589	**EVSBR2525M0416180250C**	4	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6116575	**EVSBR2525M0426060075C**	4	26	75	60	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6116577	**EVSBR2525M0426075100C**	4	26	100	75	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6116579	**EVSBR2525M0426100180C**	4	26	180	100	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6116581	**EVSBR2525M0426180250C**	4	26	250	180	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080035	**EVSBR2525M0516050060C**	5	16	60	50	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124200	**EVSBR2525M0516060075C**	5	16	60	60	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124214	**EVSBR2525M0516075100C**	5	16	100	75	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124218	**EVSBR2525M0516100180C**	5	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124222	**EVSBR2525M0516180250C**	5	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124226	**EVSBR2525M0516250350C**	5	16	350	250	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30

(continued)

(Integral Face Grooving Straight Outboard • Metric — continued)

order number	catalog number	seat size	CD	D max	D min	W min	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
6124230	**EVSBR2525M0516350999C**	5	16	999	350	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124198	**EVSBR2525M0526050060C**	5	26	60	50	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124212	**EVSBR2525M0526060075C**	5	26	60	60	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124216	**EVSBR2525M0526075100C**	5	26	100	75	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124235	**EVSBR3232P0532100180C**	5	32	180	100	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124237	**EVSBR3232P0532180250C**	5	32	250	180	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124239	**EVSBR3232P0532250350C**	5	32	350	250	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124241	**EVSBR3232P0532350999C**	5	32	999	350	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124605	**EVSBR2525M0616060075C**	6	16	75	60	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124609	**EVSBR2525M0616075100C**	6	16	100	75	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124673	**EVSBR2525M0616100180C**	6	16	180	100	25	25	31	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124677	**EVSBR2525M0616180250C**	6	16	250	180	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124681	**EVSBR2525M0616250350C**	6	16	350	250	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124685	**EVSBR2525M0616350999C**	6	16	999	350	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124607	**EVSBR2525M0626060075C**	6	26	75	60	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124671	**EVSBR2525M0626075100C**	6	26	100	75	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124689	**EVSBR3232P0632100180C**	6	32	180	100	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6124691	**EVSBR3232P0632180250C**	6	32	250	180	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6124693	**EVSBR3232P0632250350C**	6	32	350	250	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6124695	**EVSBR3232P0632350999C**	6	32	999	350	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
left hand															
6080037	**EVSBL2020K0312035040C**	3	12	40	35	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116562	**EVSBL2020K0312040050C**	3	12	50	40	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116564	**EVSBL2020K0312050060C**	3	12	60	50	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116568	**EVSBL2020K0312060075C**	3	12	75	60	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116570	**EVSBL2020K0312075100C**	3	12	100	75	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080068	**EVSBL2525M0312100180C**	3	12	180	100	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080070	**EVSBL2525M0312180250C**	3	12	250	180	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080054	**EVSBL2525M0320060075C**	3	20	75	60	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080056	**EVSBL2525M0320075100C**	3	20	100	75	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080059	**EVSBL2525M0320100180C**	3	20	180	100	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080061	**EVSBL2525M0320180250C**	3	20	250	180	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080038	**EVSBL2020K0416040050C**	4	16	50	40	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6080051	**EVSBL2020K0416050060C**	4	16	60	50	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116572	**EVSBL2020K0416060075C**	4	16	75	60	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116574	**EVSBL2020K0416075100C**	4	16	100	75	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	T30
6116588	**EVSBL2525M0416100180C**	4	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6116590	**EVSBL2525M0416180250C**	4	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6116576	**EVSBL2525M0426060075C**	4	26	75	60	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6116578	**EVSBL2525M0426075100C**	4	26	100	75	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6116580	**EVSBL2525M0426100180C**	4	26	180	100	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6116582	**EVSBL2525M0426180250C**	4	26	250	180	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6080039	**EVSBL2525M0516050060C**	5	16	60	50	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124211	**EVSBL2525M0516060075C**	5	16	60	60	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124215	**EVSBL2525M0516075100C**	5	16	100	75	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124219	**EVSBL2525M0516100180C**	5	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124223	**EVSBL2525M0516180250C**	5	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124227	**EVSBL2525M0516250350C**	5	16	350	250	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124232	**EVSBL2525M0516350999C**	5	16	999	350	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124199	**EVSBL2525M0526050060C**	5	26	60	50	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124213	**EVSBL2525M0526060075C**	5	26	60	60	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124217	**EVSBL2525M0526075100C**	5	26	100	75	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30

(continued)

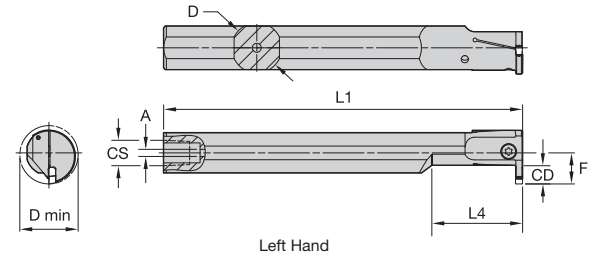
(Integral Face Grooving Straight Outboard • Metric — continued)

order number	catalog number	seat size	CD	D max	D min	W min	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx
6124236	**EVSBL3232P0532100180C**	5	32	180	100	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124238	**EVSBL3232P0532180250C**	5	32	250	180	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124240	**EVSBL3232P0532250350C**	5	32	350	250	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124242	**EVSBL3232P0532350999C**	5	32	999	350	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124606	**EVSBL2525M0616060075C**	6	16	75	60	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124610	**EVSBL2525M0616075100C**	6	16	100	75	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124674	**EVSBL2525M0616100180C**	6	16	180	100	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124678	**EVSBL2525M0616180250C**	6	16	250	180	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124682	**EVSBL2525M0616250350C**	6	16	350	250	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124686	**EVSBL2525M0616350999C**	6	16	999	350	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124608	**EVSBL2525M0626060075C**	6	26	75	60	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124672	**EVSBL2525M0626075100C**	6	26	100	75	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	T30
6124690	**EVSBL3232P0632100180C**	6	32	180	100	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6124692	**EVSBL3232P0632180250C**	6	32	250	180	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6124694	**EVSBL3232P0632250350C**	6	32	350	250	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45
6124696	**EVSBL3232P0632350999C**	6	32	999	350	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	T45

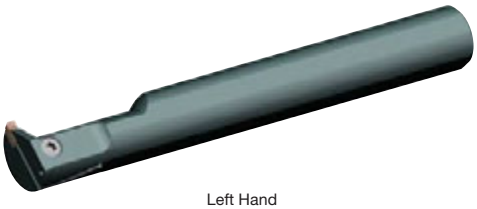
NOTE: Through the pocket coolant available in seat sizes 3 and higher.

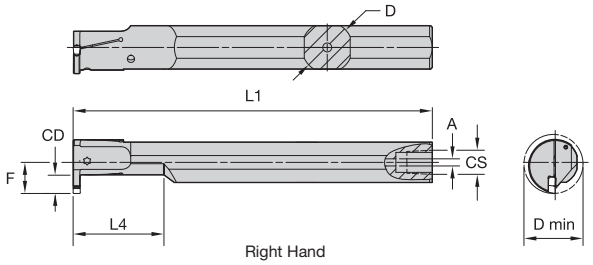
screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- For use in I.D. grooving applications.
- Maximum support.
- Steel boring bar with through coolant capability.

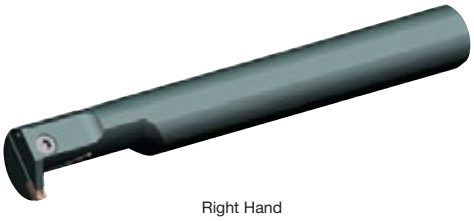


Left Hand


Left Hand



Right Hand


Right Hand

Steel Boring Bar • Inch

order number	catalog number	seat size	CD	D	D min	L1	F	L4	A	CS	Torx clamp screw	Torx clamp screw	Torx
right hand													
5980635	**A08KEVEMR1F05I**	1F	.197	.500	.625	4.92	.336	1.00	.16	1/16 - 27 NPT	–	**MS1285**	T15
5980637	**A10MEVEMR1F07I**	1F	.276	.625	.787	5.91	.436	1.25	.16	1/8 - 27 NPT	–	**MS1273**	T15
5980639	**A12QEVEMR1F07I**	1F	.276	.750	1.000	7.09	.550	1.50	.16	1/8 - 27 NPT	–	**MS1160**	T20
5980636	**A08KEVEMR0205I**	2	.197	.500	.625	4.92	.336	1.00	.16	1/16 - 27 NPT	–	**MS1285**	T15
5980638	**A10MEVEMR0207I**	2	.276	.625	.787	5.91	.436	1.25	.16	1/8 - 27 NPT	–	**MS1273**	T15
5980640	**A12QEVEMR0207I**	2	.276	.750	.984	7.09	.550	1.50	.16	1/8 - 27 NPT	–	**MS1160**	T20
5980671	**A16REVEMR0210I**	2	.394	1.000	1.250	7.87	.681	2.00	.16	1/4 - 18 NPT	–	**MS1162**	T25
5954291	**A10MEVEMR0307I**	3	.276	.625	.787	5.91	.436	1.25	.16	1/8 - 27 NPT	–	**MS1273**	T15
5954292	**A12QEVEMR0307I**	3	.276	.750	.984	7.09	.549	1.50	.16	1/8 - 27 NPT	–	**MS1160**	T20
5954293	**A16REVEMR0310I**	3	.394	1.000	1.250	7.87	.681	2.00	.16	1/4 - 18 NPT	–	**MS1162**	T25
5954295	**A20SEVEMR0312I**	3	.472	1.250	1.500	9.84	.832	2.00	.25	1/4 - 18 NPT	**MS1595**	–	T25
5954294	**A16REVEMR0410I**	4	.394	1.000	1.250	7.87	.681	2.50	.16	1/4 - 18 NPT	–	**MS1162**	T25
5954296	**A20SEVEMR0412I**	4	.472	1.250	1.500	9.84	.832	2.50	.25	1/4 - 18 NPT	**MS1595**	–	T30

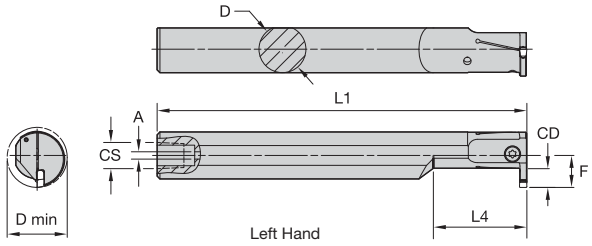
(continued)

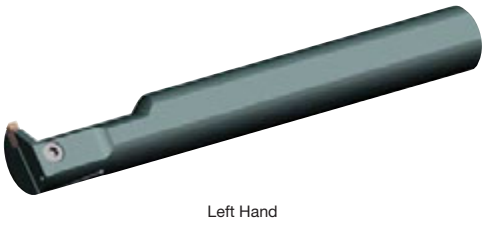
(Steel Boring Bar • Inch — continued)

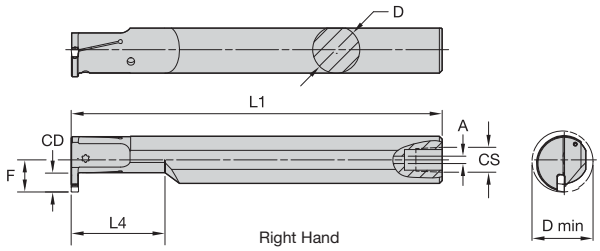
order number	catalog number	seat size	CD	D	D min	L1	F	L4	A	CS	Torx clamp screw	Torx clamp screw	Torx
left hand													
5980672	**A08KEVEML1F05I**	1F	.197	.500	.625	4.92	.336	1.00	.16	1/16 - 27 NPT	**—**	**MS1285**	T15
5980674	**A10MEVEML1F07I**	1F	.276	.625	.787	5.91	.436	1.25	.16	1/8 - 27 NPT	**—**	**MS1273**	T15
5980676	**A12QEVEML1F07I**	1F	.276	.750	1.000	7.09	.550	1.50	.16	1/8 - 27 NPT	**—**	**MS1160**	T20
5980673	**A08KEVEML0205I**	2	.197	.500	.625	4.92	.336	1.00	.16	1/16 - 27 NPT	**—**	**MS1285**	T15
5980675	**A10MEVEML0207I**	2	.276	.625	.787	5.91	.436	1.25	.16	1/8 - 27 NPT	**—**	**MS1273**	T15
5980677	**A12QEVEML0207I**	2	.276	.750	.984	7.09	.550	1.50	.16	1/8 - 27 NPT	**—**	**MS1160**	T20
5980678	**A16REVEML0210I**	2	.394	1.000	1.250	7.87	.681	2.00	.16	1/4 - 18 NPT	**—**	**MS1162**	T25
5954297	**A10MEVEML0307I**	3	.276	.625	.787	5.91	.436	1.25	.16	1/8 - 27 NPT	**—**	**MS1273**	T15
5954298	**A12QEVEML0307I**	3	.276	.750	.984	7.09	.549	1.50	.16	1/8 - 27 NPT	**—**	**MS1160**	T20
5954299	**A16REVEML0310I**	3	.394	1.000	1.250	7.87	.681	2.00	.16	1/4 - 18 NPT	**—**	**MS1162**	T25
5954301	**A20SEVEML0312I**	3	.472	1.250	1.500	9.84	.832	2.00	.25	1/4 - 18 NPT	**MS1595**	**—**	T30
5954300	**A16REVEML0410I**	4	.394	1.000	1.250	7.87	.681	2.00	.16	1/4 - 18 NPT	**—**	**MS1162**	T25
5954302	**A20SEVEML0412I**	4	.472	1.250	1.500	9.84	.832	2.50	.25	1/4 - 18 NPT	**MS1595**	**—**	T30

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- For use in I.D. grooving applications.
- Maximum support.
- Steel boring bar with through coolant capability.




Left Hand



Right Hand

Steel Boring Bar • Metric

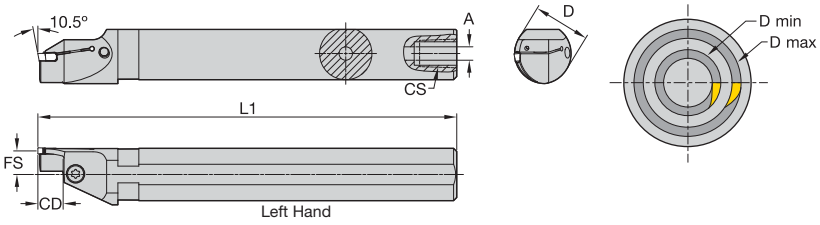
order number	catalog number	seat size	CD	D	D min	L1	F	L4	A	CS	Torx clamp screw	Torx clamp screw	Torx
right hand													
5980518	**A12KEVEMR1F05M**	1F	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPT	–	**MS1285**	T15
5980520	**A16MEVEMR1F07M**	1F	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPT	–	**MS1273**	T15
5980622	**A20QEVEMR1F07M**	1F	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	–	**MS1160**	T20
5980519	**A12KEVEMR0205M**	2	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPTF	–	**MS1285**	T15
5980621	**A16MEVEMR0207M**	2	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPTF	–	**MS1273**	T15
5980623	**A20QEVEMR0207M**	2	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	–	**MS1160**	T20
5980624	**A25REVEMR0210M**	2	10,00	25	32	200	18	50,0	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954259	**A16MEVEMR0307M**	3	7,00	16	20	150	11	40,3	4,00	1/8 - 27 NPT	–	**MS1273**	T15
5954260	**A20QEVEMR0307M**	3	7,00	20	25	180	13	40,3	4,00	1/8 - 27 NPT	–	**MS1160**	T20
5954281	**A25REVEMR0310M**	3	10,00	25	32	200	17	50,3	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954283	**A32SEVEMR0312M**	3	12,00	32	40	250	22	64,0	6,40	1/4 - 18 NPT	**MS1595**	–	T30
5954282	**A25REVEMR0410M**	4	10,00	25	32	200	17	50,3	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954284	**A32SEVEMR0412M**	4	12,00	32	40	250	22	64,0	6,40	1/4 - 18 NPT	**MS1595**	–	T30

(continued)

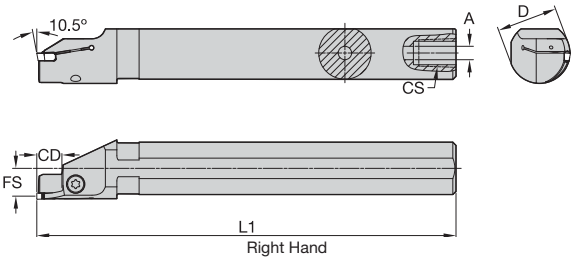
(Steel Boring Bar • Metric — continued)

order number	catalog number	seat size	CD	D	D min	L1	F	L4	A	CS	Torx clamp screw	Torx clamp screw	Torx
left hand													
5980625	**A12KEVEML1F05M**	1F	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPTF	–	**MS1285**	T15
5980627	**A16MEVEML1F07M**	1F	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPTF	–	**MS1273**	T15
5980629	**A20QEVEML1F07M**	1F	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	–	**MS1160**	T20
5980626	**A12KEVEML0205M**	2	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPTF	–	**MS1285**	T15
5980628	**A16MEVEML0207M**	2	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPTF	–	**MS1273**	T15
5980630	**A20QEVEML0207M**	2	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	–	**MS1160**	T20
5980631	**A25REVEML0210M**	2	10,00	25	32	200	18	50,0	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954285	**A16MEVEML0307M**	3	7,00	16	20	150	11	40,3	4,00	1/8 - 27 NPT	–	**MS1273**	T15
5954286	**A20QEVEML0307M**	3	7,00	20	25	180	13	40,3	4,00	1/8 - 27 NPT	–	**MS1160**	T20
5954287	**A25REVEML0310M**	3	10,00	25	32	200	17	50,3	6,40	1/4 - 27 NPT	–	**MS1162**	T25
5954289	**A32SEVEML0312M**	3	12,00	32	40	250	22	64,0	6,40	1/4 - 27 NPT	**MS1595**	–	T30
5954288	**A25REVEML0410M**	4	10,00	25	32	200	17	50,3	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954290	**A32SEVEML0412M**	4	12,00	32	40	250	22	64,0	6,40	1/4 - 18 NPT	**MS1595**	–	T30

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**



Left Hand

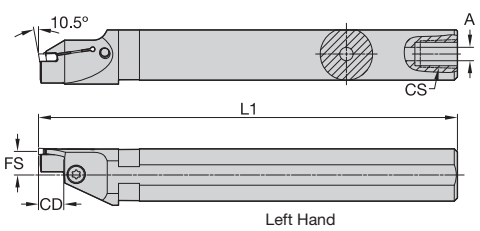


Right Hand

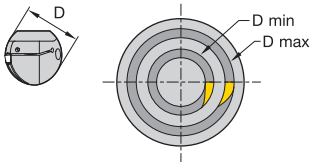
Steel Face Grooving Boring Bar • Inch

order number	catalog number	seat size	CD	D	D min	D max	L1	F	CS	Torx clamp screw	Torx
right hand											
6116533	**A16REVSAR0212I026030**	2	.472	1.000	1.024	1.181	7.87	.510	1/4-18 NPT	**MS1160**	T20
6116534	**A16REVSAR0312I030035**	3	.472	1.000	1.181	1.378	7.87	.510	1/4-18 NPT	**MS1162**	T25
6116529	**A20SEVSAR0312I033042**	3	.472	1.250	1.299	1.654	9.84	.635	1/4-18 NPT	**MS1162**	T25
6116531	**A24TEVSAR0312I041050**	3	.472	1.500	1.614	1.969	11.81	.760	1/4-18 NPT	**MS1162**	T25
left hand											
6116539	**A16REVSAL0212I026030**	2	.472	1.000	1.024	1.181	7.87	.510	1/4-18 NPT	**MS1160**	T20
6116540	**A16REVSAL0312I030035**	3	.472	1.000	1.181	1.378	7.87	.510	1/4-18 NPT	**MS1162**	T25
6116530	**A20SEVSAL0312I033042**	3	.472	1.250	1.295	1.303	9.84	.635	1/4-18 NPT	**MS1162**	T25
6116532	**A24TEVSAL0312I041050**	3	.472	1.500	1.610	1.618	11.81	.760	1/4-18 NPT	**MS1162**	T25

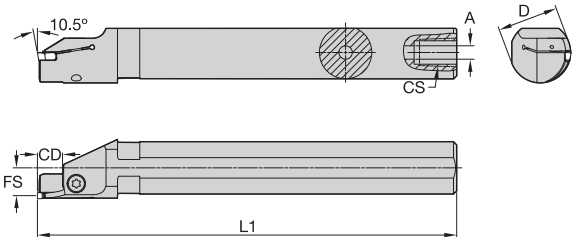
screw catalog number	screw order number	torque Nm	torque in. lbs.	thread	socket	wrench catalog number	wrench order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**



Left Hand



Left Hand



Right Hand

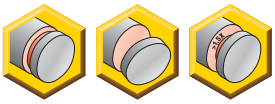
Right Hand

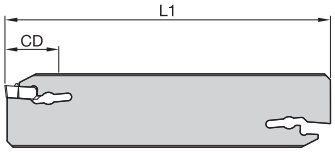
Steel Face Grooving Boring Bar • Metric

order number	catalog number	seat size	CD	D	D min	D max	L1	F	CS	Torx clamp screw	Torx
right hand											
6116521	**A25REVSAR0212M026030**	2	12,00	25	26	30	200	13	1/4-18 NPT	**MS1160**	T20
6116522	**A25REVSAR0312M030035**	3	12,00	25	30	35	200	13	–	**MS1162**	T25
6116297	**A32SEVSAR0312M033042**	3	12,00	32	33	42	250	16	1/4-18 NPT	**MS1162**	T25
6116299	**A40TEVSAR0312M041050**	3	12,00	40	41	50	300	20	1/4-18 NPT	**MS1162**	T25
left hand											
6116527	**A25REVSAL0212M026030**	2	12,00	25	26	30	200	13	1/4-18 NPT	**MS1160**	T20
6116528	**A25REVSAL0312M030035**	3	12,00	25	30	35	200	13	1/4-18 NPT	**MS1162**	T25
6116298	**A32SEVSAL0312M033042**	3	12,00	32	33	42	250	16	1/4-18 NPT	–	T25
6116300	**A40TEVSAL0312M041050**	3	12,00	40	41	50	300	20	1/4-18 NPT	**MS1162**	T25

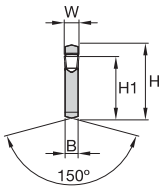
screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

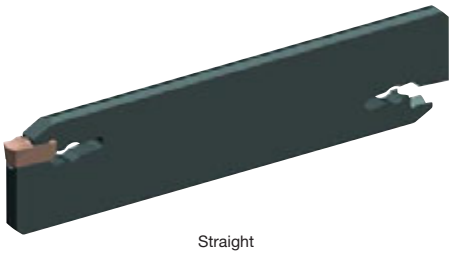
- For deep groove and cut-off applications.
- Universal pocket for holding all insert geometries.



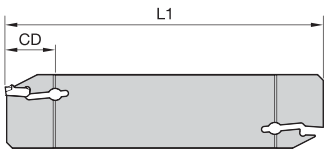


Straight

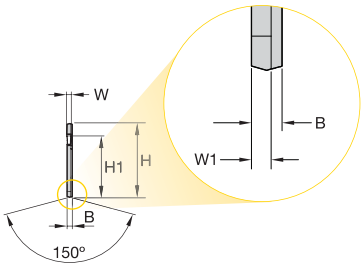


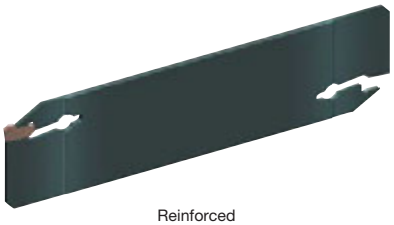


Straight



Reinforced





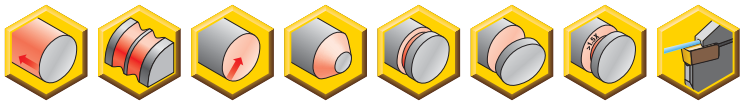
Reinforced

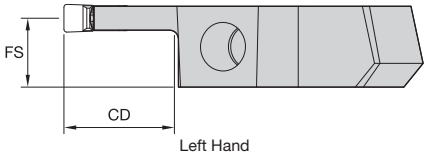
Double-Ended Cut-Off Blade

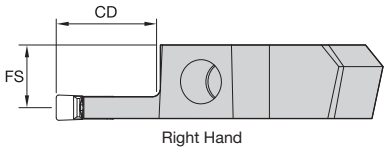
order number	catalog number	seat size	H	W	W1	H1	L1	B	CD	assembly wrench
left hand										
5941706	**EVBSN19G1B14**	1B	19	1,4	1,15	15,5	90	1,80	14	**SCW5E**
5941708	**EVBSN26J1B15**	1B	26	1,4	1,15	21,5	110	1,80	15	**SCW5E**
5955391	**EVBSN19G1F16**	1F	19	1,6	1,30	15,5	90	1,80	16	**SCW5E**
5955392	**EVBSN26J1F17**	1F	26	1,6	1,30	21,5	110	1,80	17	**SCW5E**
5941707	**EVBSN19G0220**	2	19	2,0	–	15,5	90	1,65	–	**SCW5E**
5941709	**EVBSN26J0230**	2	26	2,0	–	21,5	110	1,65	–	**SCW5E**
5941710	**EVBSN26M0230**	2	26	2,0	–	21,5	150	1,65	–	**SCW5E**
5941724	**EVBSN32M0250**	2	32	2,0	–	25,1	150	1,65	–	**SCW5E**
5941721	**EVBSN26J0340**	3	26	3,0	–	21,5	110	2,40	–	**SCW5E**
5941722	**EVBSN26M0340**	3	26	3,0	–	21,5	150	2,40	–	**SCW5E**
5941725	**EVBSN32M0350**	3	32	3,0	–	25,1	150	2,40	–	**SCW5E**
5941723	**EVBSN26J0440**	4	26	4,0	–	21,5	110	3,40	–	**SCW5E**
5941726	**EVBSN32M0450**	4	32	4,0	–	25,1	150	3,40	–	**SCW5E**
5977635	**EVBSN26J0540**	5	26	5,0	–	21,5	110	4,40	–	**SCW5E**
5977637	**EVBSN32M0560**	5	32	5,0	–	25,1	150	4,40	–	**SCW5E**
5977636	**EVBSN26J0640**	6	26	6,0	–	21,5	110	5,40	–	**SCW8E**
5977638	**EVBSN32M0660**	6	32	6,0	–	25,1	150	5,40	–	**SCW8E**
5977640	**EVBSN52X06120**	6	53	6,0	–	45,3	260	5,40	–	**SCW8E**
5977639	**EVBSN32M0860**	8	32	8,0	–	25,1	150	7,00	–	**SCW8E**
5977721	**EVBSN52X08120**	8	53	8,0	–	45,3	260	7,00	–	**SCW8E**

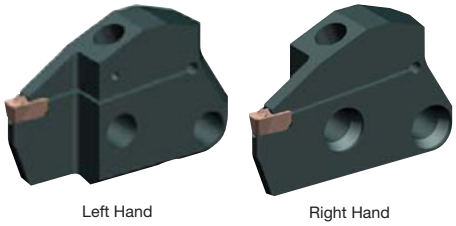
NOTE: Assembly wrench supplied with blade.

- Maximum support for specific groove width and straight clearance for unlimited diameter.
- Through the pocket coolant capable.
- Universal pocket for holding all insert geometries.

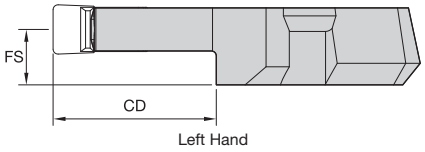


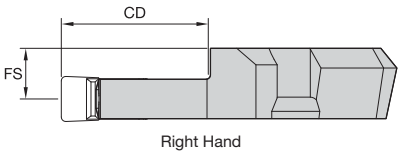


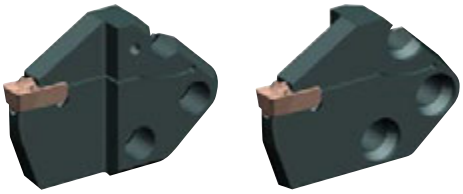




M50 blade size shown







M65 blade size shown

Modular Straight Blade with Coolant

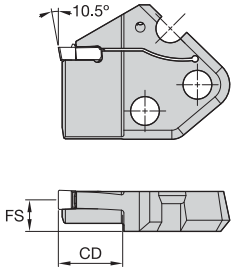
order number	catalog number	seat size	CD	FS	blade size
right hand					
6031041	**EVM50R1F12M**	1F	12,0	11,00	50
6030969	**EVM50R0212M**	2	12,0	10,88	50
5955423	**EVM50R0216M**	2	16,0	10,88	50
5979200	**EVM50R0312MC**	3	12,0	10,43	50
5979010	**EVM50R0316MC**	3	16,0	10,43	50
5979181	**EVM50R0322MC**	3	22,0	10,43	50
5979201	**EVM50R0412MC**	4	12,0	9,93	50
5979182	**EVM50R0416MC**	4	16,0	9,93	50
5979183	**EVM50R0422MC**	4	22,0	9,93	50
5979198	**EVM50R0426MC**	4	26,0	9,93	50
5979184	**EVM50R0432MC**	4	32,0	9,93	50
6031031	**EVM50R0512MC**	5	12,0	9,43	50
6031033	**EVM50R0516MC**	5	16,0	9,43	50
5955415	**EVM50R0526MC**	5	26,0	9,43	50
5955416	**EVM50R0532MC**	5	32,0	9,43	50
6031035	**EVM65R0616MC**	6	16,0	9,88	65
5955417	**EVM65R0626MC**	6	26,0	9,88	65
6031037	**EVM65R0632MC**	6	32,0	9,88	65
6031039	**EVM65R0816MC**	8	16,0	9,00	65
5955418	**EVM65R0826MC**	8	26,0	9,00	65

(continued)

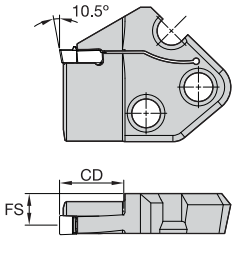
(Modular Straight Blade with Coolant — continued)

order number	catalog number	seat size	CD	FS	blade size
left hand					
6031042	**EVM50L1F12M**	1F	12,0	11,00	50
6030970	**EVM50L0212M**	2	12,0	10,88	50
5955424	**EVM50L0216M**	2	16,0	10,88	50
5979202	**EVM50L0312MC**	3	12,0	10,43	50
5979185	**EVM50L0316MC**	3	16,0	10,43	50
5979186	**EVM50L0322MC**	3	22,0	10,43	50
5979203	**EVM50L0412MC**	4	12,0	9,93	50
5979187	**EVM50L0416MC**	4	16,0	9,93	50
5979188	**EVM50L0422MC**	4	22,0	9,93	50
5979199	**EVM50L0426MC**	4	26,0	9,93	50
5979189	**EVM50L0432MC**	4	32,0	9,93	50
6031032	**EVM50L0512MC**	5	12,0	9,93	50
6031034	**EVM50L0516MC**	5	16,0	9,43	50
5955419	**EVM50L0526MC**	5	26,0	9,43	50
5955420	**EVM50L0532MC**	5	32,0	9,43	50
6031036	**EVM65L0616MC**	6	16,0	9,88	65
5955421	**EVM65L0626MC**	6	26,0	9,88	65
6031038	**EVM65L0632MC**	6	32,0	9,88	65
6031040	**EVM65L0816MC**	8	16,0	9,00	65
5955422	**EVM65L0826MC**	8	26,0	9,00	65

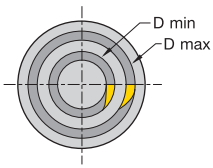
NOTE: Through the pocket coolant available in seat sizes 3 and higher.



Left Hand



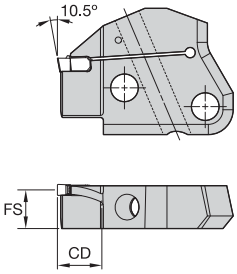
Right Hand



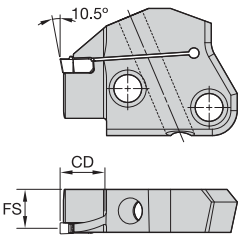
Left Hand

Right Hand

M65 blade size shown



Left Hand



Right Hand

Left Hand

Right Hand

M50 blade size shown

Modular Inboard Face Grooving Blade with Coolant

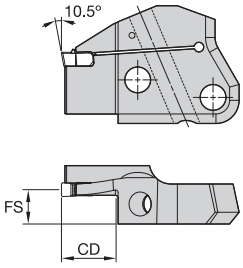
order number	catalog number	seat size	D min in	D min mm	D max in	D max mm	CD	FS	blade size
right hand									
6097181	**EVM50R0312A035040C**	3	1.378	35	1.575	40	12,0	10,50	50
6097182	**EVM50R0312A040050C**	3	1.575	40	1.969	50	12,0	10,50	50
6097183	**EVM50R0312A050060C**	3	1.969	50	2.362	60	12,0	10,50	50
6097184	**EVM50R0312A060075C**	3	2.362	60	2.953	75	12,0	10,50	50
6116789	**EVM50R0312A075100C**	3	2.953	75	3.937	100	12,0	10,50	50
6117063	**EVM50R0312A100180C**	3	3.937	100	7.087	180	12,0	10,50	50
6117067	**EVM50R0312A180250C**	3	7.087	180	9.843	250	12,0	10,50	50
6117071	**EVM50R0312A250350C**	3	9.843	250	13.780	350	12,0	10,50	50
6117075	**EVM50R0312A350999C**	3	13.780	350	39.331	999	12,0	10,50	50
6097185	**EVM50R0320A075100C**	3	2.953	75	3.937	100	20,0	10,50	50
6097186	**EVM50R0320A100180C**	3	3.937	100	7.087	180	20,0	10,50	50
6097187	**EVM50R0320A180250C**	3	7.087	180	9.843	250	20,0	10,50	50
6097188	**EVM50R0320A250350C**	3	9.843	250	13.780	350	20,0	10,50	50
6097189	**EVM50R0320A350999C**	3	13.780	350	39.331	999	20,0	10,50	50
6079480	**EVM50R0416A040050C**	4	1.575	40	1.969	50	16,0	10,00	50
6079481	**EVM50R0416A050060C**	4	1.969	50	2.362	60	16,0	10,00	50
6079482	**EVM50R0416A060075C**	4	2.362	60	2.953	75	16,0	10,00	50
6079483	**EVM50R0416A075100C**	4	2.953	75	3.937	100	16,0	10,00	50
6117079	**EVM50R0416A100180C**	4	3.937	100	7.087	180	16,0	10,00	50
6117093	**EVM50R0416A180250C**	4	7.087	180	9.843	250	16,0	10,00	50
6117097	**EVM50R0416A250350C**	4	9.843	250	13.780	350	16,0	10,00	50
6117101	**EVM50R0416A350999C**	4	13.780	350	39.331	999	16,0	10,00	50
6079484	**EVM50R0426A100180C**	4	3.937	100	7.087	180	26,0	10,00	50
6079485	**EVM50R0426A180250C**	4	7.087	180	9.843	250	26,0	10,00	50
6079486	**EVM50R0426A250350C**	4	9.843	250	13.780	350	26,0	10,00	50
6079487	**EVM50R0426A350999C**	4	13.780	350	39.331	999	26,0	10,00	50
6079488	**EVM50R0520A050060C**	5	1.969	50	2.362	60	20,0	9,50	50

(continued)

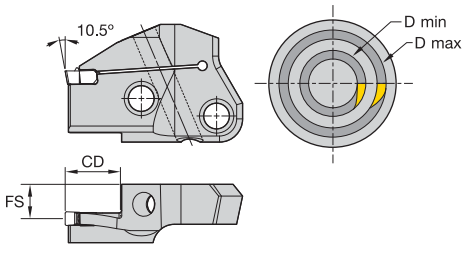
(Modular Inboard Face Grooving Blade with Coolant — continued)

order number	catalog number	seat size	D min in	D min mm	D max in	D max mm	CD	FS	blade size
6079489	EVM50R0520A060075C	5	2.362	60	2.953	75	20,0	9,50	50
6079490	EVM50R0520A075100C	5	2.953	75	3.937	100	20,0	9,50	50
6079491	EVM50R0520A100180C	5	3.937	100	7.087	180	20,0	9,50	50
6079492	EVM50R0520A180250C	5	7.087	180	9.843	250	20,0	9,50	50
6079493	EVM50R0520A250350C	5	9.843	250	13.780	350	20,0	9,50	50
6079494	EVM50R0520A350999C	5	13.780	350	39.331	999	20,0	9,50	50
6079223	EVM65R0620A060075C	6	2.362	60	2.953	75	20,0	9,88	65
6079224	EVM65R0620A075100C	6	2.953	75	3.937	100	20,0	9,88	65
6079225	EVM65R0620A100180C	6	3.937	100	7.087	180	20,0	9,88	65
6079226	EVM65R0620A180250C	6	7.087	180	9.843	250	20,0	9,88	65
6079227	EVM65R0620A250350C	6	9.843	250	13.780	350	20,0	9,88	65
6079228	EVM65R0620A350999C	6	13.780	350	39.331	999	20,0	9,88	65
6079229	EVM65R0820A080180C	8	3.150	80	7.087	180	20,0	9,00	65
6079230	EVM65R0820A180999C	8	7.087	180	39.331	999	20,0	9,00	65
left hand									
6097190	EVM50L0312A035040C	3	1.378	35	1.575	40	12,0	10,50	50
6097191	EVM50L0312A040050C	3	1.575	40	1.969	50	12,0	10,50	50
6097192	EVM50L0312A050060C	3	1.969	50	2.362	60	12,0	10,50	50
6097193	EVM50L0312A060075C	3	2.362	60	2.953	75	12,0	10,50	50
6116790	EVM50L0312A075100C	3	2.953	75	3.937	100	12,0	10,50	50
6117064	EVM50L0312A100180C	3	3.937	100	7.087	180	12,0	10,50	50
6117068	EVM50L0312A180250C	3	7.087	180	9.843	250	12,0	10,50	50
6117072	EVM50L0312A250350C	3	9.843	250	13.780	350	12,0	10,50	50
6117076	EVM50L0312A350999C	3	13.780	350	39.331	999	12,0	10,50	50
6097194	EVM50L0320A075100C	3	2.953	75	3.937	100	20,0	10,50	50
6097195	EVM50L0320A100180C	3	3.937	100	7.087	180	20,0	10,50	50
6097196	EVM50L0320A180250C	3	7.087	180	9.843	250	20,0	10,50	50
6097197	EVM50L0320A250350C	3	9.843	250	13.780	350	20,0	10,50	50
6097198	EVM50L0320A350999C	3	13.780	350	39.331	999	20,0	10,50	50
6079495	EVM50L0416A040050C	4	1.575	40	1.969	50	16,0	10,00	50
6079496	EVM50L0416A050060C	4	1.969	50	2.362	60	16,0	10,00	50
6079497	EVM50L0416A060075C	4	2.362	60	2.953	75	16,0	10,00	50
6079498	EVM50L0416A075100C	4	2.953	75	3.937	100	16,0	10,00	50
6117080	EVM50L0416A100180C	4	3.937	100	7.087	180	16,0	10,00	50
6117094	EVM50L0416A180250C	4	7.087	180	9.843	250	16,0	10,00	50
6117098	EVM50L0416A250350C	4	9.843	250	13.780	350	16,0	10,00	50
6117102	EVM50L0416A350999C	4	13.780	350	39.331	999	16,0	10,00	50
6079499	EVM50L0426A100180C	4	3.937	100	7.087	180	26,0	10,00	50
6079500	EVM50L0426A180250C	4	7.087	180	9.843	250	26,0	10,00	50
6079501	EVM50L0426A250350C	4	9.843	250	13.780	350	26,0	10,00	50
6079502	EVM50L0426A350999C	4	13.780	350	39.331	999	26,0	10,00	50
6079503	EVM50L0520A050060C	5	1.969	50	2.362	60	20,0	9,50	50
6079504	EVM50L0520A060075C	5	2.362	60	2.953	75	20,0	9,50	50
6079505	EVM50L0520A075100C	5	2.953	75	3.937	100	20,0	9,50	50
6079506	EVM50L0520A100180C	5	3.937	100	7.087	180	20,0	9,50	50
6079507	EVM50L0520A180250C	5	7.087	180	9.843	250	20,0	9,50	50
6079508	EVM50L0520A250350C	5	9.843	250	13.780	350	20,0	9,50	50
6079509	EVM50L0520A350999C	5	13.780	350	39.331	999	20,0	9,50	50
6079234	EVM65L0620A060075C	6	2.362	60	2.953	75	20,0	9,88	65
6079235	EVM65L0620A075100C	6	2.953	75	3.937	100	20,0	9,88	65
6079236	EVM65L0620A100180C	6	3.937	100	7.087	180	20,0	9,88	65
6079237	EVM65L0620A180250C	6	7.087	180	9.843	250	20,0	9,88	65
6079238	EVM65L0620A250350C	6	9.843	250	13.780	350	20,0	9,88	65
6079239	EVM65L0620A350999C	6	13.780	350	39.331	999	20,0	9,88	65
6079240	EVM65L0820A080180C	8	3.150	80	7.087	180	20,0	9,00	65
6079241	EVM65L0820A180999C	8	7.087	180	39.331	999	20,0	9,00	65

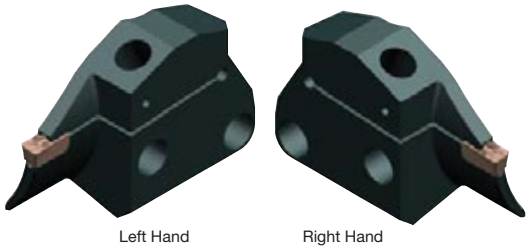
NOTE: Through the pocket coolant available in seat sizes 3 and higher.



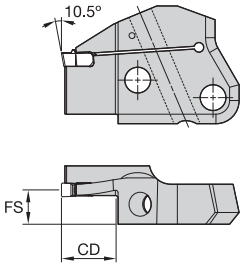
Left Hand



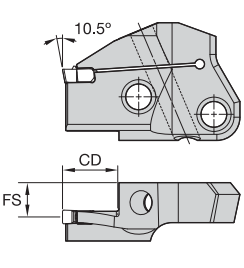
Right Hand


Left Hand Right Hand

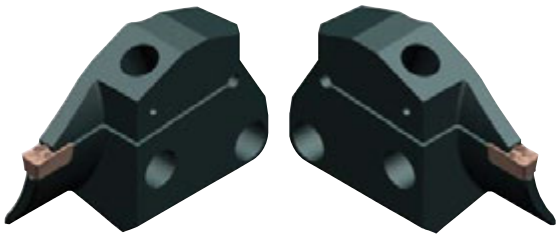
M65 blade size shown



Left Hand



Right Hand


Left Hand Right Hand

M50 blade size shown

Modular Outboard Face Grooving Blade with Coolant

order number	catalog number	seat size	D min in	D min mm	D max in	D max mm	CD	FS	blade size
right hand									
6079340	**EVM50R0312B035040C**	3	1.378	35	1.575	40	12,0	10,50	50
6079411	**EVM50R0312B040050C**	3	1.575	40	1.969	50	12,0	10,50	50
6079412	**EVM50R0312B050060C**	3	1.969	50	2.362	60	12,0	10,50	50
6079413	**EVM50R0312B060075C**	3	2.362	60	2.953	75	12,0	10,50	50
6117061	**EVM50R0312B075100C**	3	2.953	75	3.937	100	12,0	10,50	50
6117065	**EVM50R0312B100180C**	3	3.937	100	7.087	180	12,0	10,50	50
6117069	**EVM50R0312B180250C**	3	7.087	180	9.843	250	12,0	10,50	50
6117073	**EVM50R0312B250350C**	3	9.843	250	13.780	350	12,0	10,50	50
6117077	**EVM50R0312B350999C**	3	13.780	350	39.331	999	12,0	10,50	50
6079414	**EVM50R0320B075100C**	3	2.953	75	3.937	100	20,0	10,50	50
6079415	**EVM50R0320B100180C**	3	3.937	100	7.087	180	20,0	10,50	50
6079416	**EVM50R0320B180250C**	3	7.087	180	9.843	250	20,0	10,50	50
6079417	**EVM50R0320B250350C**	3	9.843	250	13.780	350	20,0	10,50	50
6079418	**EVM50R0320B350999C**	3	13.780	350	39.331	999	20,0	10,50	50
6079429	**EVM50R0416B040050C**	4	1.575	40	1.969	50	16,0	10,00	50
6079430	**EVM50R0416B050060C**	4	1.969	50	2.362	60	16,0	10,00	50
6079451	**EVM50R0416B060075C**	4	2.362	60	2.953	75	16,0	10,00	50
6079452	**EVM50R0416B075100C**	4	2.953	75	3.937	100	16,0	10,00	50
6117091	**EVM50R0416B100180C**	4	3.937	100	7.087	180	16,0	10,00	50
6117095	**EVM50R0416B180250C**	4	7.087	180	9.843	250	16,0	10,00	50
6117099	**EVM50R0416B250350C**	4	9.843	250	13.780	350	16,0	10,00	50
6117103	**EVM50R0416B350999C**	4	13.780	350	39.331	999	16,0	10,00	50
6079453	**EVM50R0426B100180C**	4	3.937	100	7.087	180	26,0	10,00	50
6079454	**EVM50R0426B180250C**	4	7.087	180	9.843	250	26,0	10,00	50
6079455	**EVM50R0426B250350C**	4	9.843	250	13.780	350	26,0	10,00	50
6079456	**EVM50R0426B350999C**	4	13.780	350	39.331	999	26,0	10,00	50
6079457	**EVM50R0520B050060C**	5	1.969	50	2.362	60	20,0	9,50	50

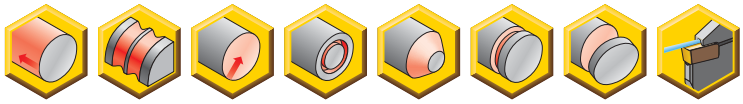
(continued)

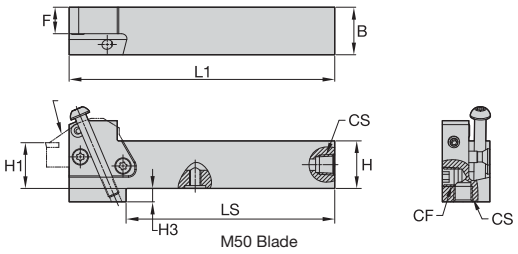
(Modular Outboard Face Grooving Blade with Coolant — continued)

order number	catalog number	seat size	D min in	D min mm	D max in	D max mm	CD	FS	blade size
6079458	EVM50R0520B060075C	5	2.362	60	2.953	75	20,0	9,50	50
6079459	EVM50R0520B075100C	5	2.953	75	3.937	100	20,0	9,50	50
6079460	EVM50R0520B100180C	5	3.937	100	7.087	180	20,0	9,50	50
6079461	EVM50R0520B180250C	5	7.087	180	9.843	250	20,0	9,50	50
6079462	EVM50R0520B250350C	5	9.843	250	13.780	350	20,0	9,50	50
6079463	EVM50R0520B350999C	5	13.780	350	39.331	999	20,0	9,50	50
6079246	EVM65R0620B060075C	6	2.362	60	2.953	75	20,0	9,88	65
6079247	EVM65R0620B075100C	6	2.953	75	3.937	100	20,0	9,88	65
6079248	EVM65R0620B100180C	6	3.937	100	7.087	180	20,0	9,88	65
6079249	EVM65R0620B180250C	6	7.087	180	9.843	250	20,0	9,88	65
6079250	EVM65R0620B250350C	6	9.843	250	13.780	350	20,0	9,88	65
6079261	EVM65R0620B350999C	6	13.780	350	39.331	999	20,0	9,88	65
6079262	EVM65R0820B080180C	8	3.150	80	7.087	180	20,0	9,00	65
6079263	EVM65R0820B180999C	8	7.087	180	39.331	999	20,0	9,00	65
left hand									
6079420	EVM50L0312B035040C	3	1.378	35	1.575	40	12,0	10,50	50
6079421	EVM50L0312B040050C	3	1.575	40	1.969	50	12,0	10,50	50
6079422	EVM50L0312B050060C	3	1.969	50	2.362	60	12,0	10,50	50
6079423	EVM50L0312B060075C	3	2.362	60	2.953	75	12,0	10,50	50
6117062	EVM50L0312B075100C	3	2.953	75	3.937	100	12,0	10,50	50
6117066	EVM50L0312B100180C	3	3.937	100	7.087	180	12,0	10,50	50
6117070	EVM50L0312B180250C	3	7.087	180	9.843	250	12,0	10,50	50
6117074	EVM50L0312B250350C	3	9.843	250	13.780	350	12,0	10,50	50
6117078	EVM50L0312B350999C	3	13.780	350	39.331	999	12,0	10,50	50
6079424	EVM50L0320B075100C	3	2.953	75	3.937	100	20,0	10,50	50
6079425	EVM50L0320B100180C	3	3.937	100	7.087	180	20,0	10,50	50
6079426	EVM50L0320B180250C	3	7.087	180	9.843	250	20,0	10,50	50
6079427	EVM50L0320B250350C	3	9.843	250	13.780	350	20,0	10,50	50
6079428	EVM50L0320B350999C	3	13.780	350	39.331	999	20,0	10,50	50
6079464	EVM50L0416B040050C	4	1.575	40	1.969	50	16,0	10,00	50
6079465	EVM50L0416B050060C	4	1.969	50	2.362	60	16,0	10,00	50
6079466	EVM50L0416B060075C	4	2.362	60	2.953	75	16,0	10,00	50
6079467	EVM50L0416B075100C	4	2.953	75	3.937	100	16,0	10,00	50
6117092	EVM50L0416B100180C	4	3.937	100	7.087	180	16,0	10,00	50
6117096	EVM50L0416B180250C	4	7.087	180	9.843	250	16,0	10,00	50
6117100	EVM50L0416B250350C	4	9.843	250	13.780	350	16,0	10,00	50
6117104	EVM50L0416B350999C	4	13.780	350	39.331	999	16,0	10,00	50
6079468	EVM50L0426B100180C	4	3.937	100	7.087	180	26,0	10,00	50
6079469	EVM50L0426B180250C	4	7.087	180	9.843	250	26,0	10,00	50
6079470	EVM50L0426B250350C	4	9.843	250	13.780	350	26,0	10,00	50
6079471	EVM50L0426B350999C	4	13.780	350	39.331	999	26,0	10,00	50
6079472	EVM50L0520B050060C	5	1.969	50	2.362	60	20,0	9,50	50
6079473	EVM50L0520B060075C	5	2.362	60	2.953	75	20,0	9,50	50
6079474	EVM50L0520B075100C	5	2.953	75	3.937	100	20,0	9,50	50
6079475	EVM50L0520B100180C	5	3.937	100	7.087	180	20,0	9,50	50
6079476	EVM50L0520B180250C	5	7.087	180	9.843	250	20,0	9,50	50
6079477	EVM50L0520B250350C	5	9.843	250	13.780	350	20,0	9,50	50
6079478	EVM50L0520B350999C	5	13.780	350	39.331	999	20,0	9,50	50
6079266	EVM65L0620B060075C	6	2.362	60	2.953	75	20,0	9,88	65
6079267	EVM65L0620B075100C	6	2.953	75	3.937	100	20,0	9,88	65
6079268	EVM65L0620B100180C	6	3.937	100	7.087	180	20,0	9,88	65
6079269	EVM65L0620B180250C	6	7.087	180	9.843	250	20,0	9,88	65
6079270	EVM65L0620B250350C	6	9.843	250	13.780	350	20,0	9,87	65
6079271	EVM65L0620B350999C	6	13.780	350	39.331	999	20,0	9,88	65
6079272	EVM65L0820B080180C	8	3.150	80	7.087	180	20,0	9,00	65
6079273	EVM65L0820B180999C	8	7.087	180	39.331	999	20,0	9,00	65

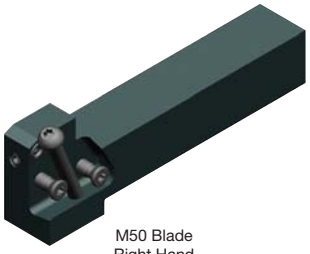
NOTE: Through the pocket coolant available in seat sizes 3 and higher.

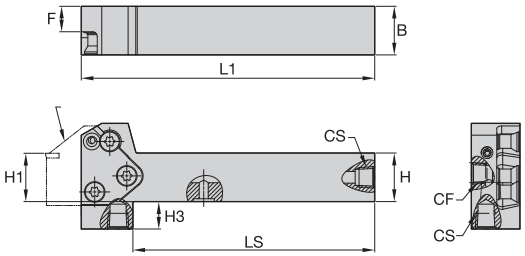
- Interchangeable blades for versatility and depth of cut.
- Through the pocket coolant capable.



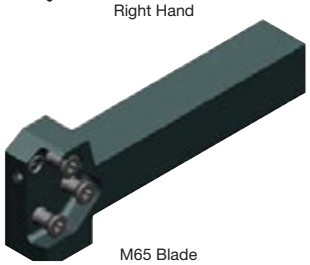


M50 Blade


M50 Blade
Right Hand



M65 Blade


M65 Blade
Right Hand

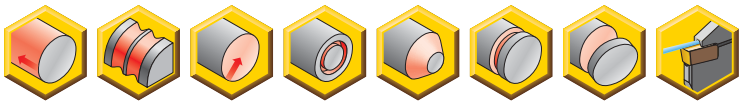
Modular Straight Toolholder with Coolant • Inch

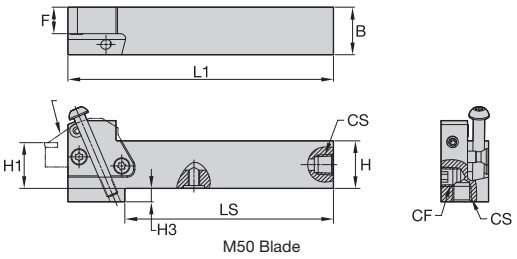
order number	catalog number	H	H1	B	L1	LS	F	CS	CF	H2	H3	blade size	blade screw	Torx	clamp screw	Torx
right hand																
5979194	**KGMSR1650C**	1.00	1.00	1.00	5.5	4.27	.56	1/8 - 27 NPTF	1/8 - 27 NPTF	1.67	0.25	50	—	T25	—	T25
5979801	**KGMSR1665C**	1.00	1.00	1.00	6.0	4.62	.53	1/8 - 27 NPTF	1/8 - 27 NPTF	2.09	0.50	65	**MS1163**	T30	—	—
5979802	**KGMSR2050C**	1.25	1.25	1.25	5.5	4.72	.81	1/8 - 27 NPTF	1/8 - 27 NPTF	1.78	—	50	**MS1162**	T25	**MS2002**	T25
5979803	**KGMSR2065C**	1.25	1.25	1.25	6.0	4.88	.78	1/8 - 27 NPTF	1/8 - 27 NPTF	2.09	0.25	65	**MS1163**	T30	—	—
5979804	**KGMSR2450C**	1.50	1.50	1.50	5.5	4.72	1.06	1/8 - 27 NPTF	1/8 - 27 NPTF	2.03	—	50	**MS1162**	T25	**MS2002**	T25
5979805	**KGMSR2465C**	1.50	1.50	1.50	7.0	5.90	1.03	1/8 - 27 NPTF	1/8 - 27 NPTF	2.09	—	65	**MS1163**	T30	—	—
left hand																
5979195	**KGMSL1650C**	1.00	1.00	1.00	5.5	4.27	.56	1/8 - 27 NPTF	1/8 - 27 NPTF	1.67	0.25	50	—	T25	—	T25
5979806	**KGMSL1665C**	1.00	1.00	1.00	6.0	4.62	.52	1/8 - 27 NPTF	1/8 - 27 NPTF	2.10	0.50	65	**MS1163**	T30	—	—
5979807	**KGMSL2050C**	1.25	1.25	1.25	5.5	4.52	.81	1/8 - 27 NPTF	1/8 - 27 NPTF	1.67	—	50	**MS1162**	T25	**MS2002**	T25
5979808	**KGMSL2065C**	1.25	1.25	1.25	6.0	4.88	.78	1/8 - 27 NPTF	1/8 - 27 NPTF	2.09	0.25	65	**MS1163**	T30	—	—
5979809	**KGMSL2450C**	1.50	1.50	1.50	5.5	4.74	1.06	1/8 - 27 NPTF	1/8 - 27 NPTF	2.03	—	50	**MS1162**	T25	**MS2002**	T25
5979810	**KGMSL2465C**	1.50	1.50	1.50	7.0	5.90	1.03	1/8 - 27 NPTF	1/8 - 27 NPTF	2.09	—	65	**MS1163**	T30	—	—

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME...: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

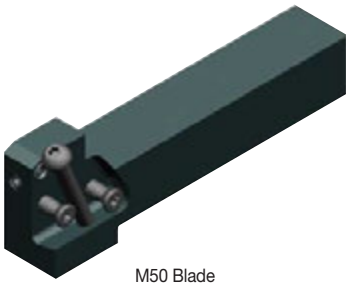
screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

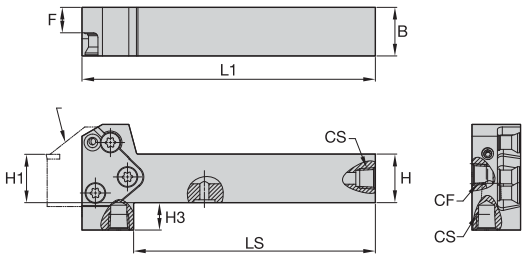
- Interchangeable blades for versatility and depth of cut.
- Through the pocket coolant capable.



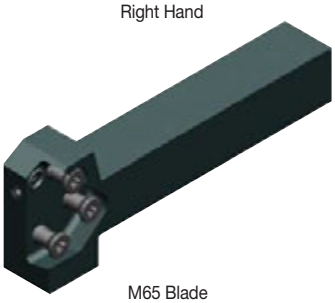


M50 Blade


M50 Blade
Right Hand



M65 Blade


M65 Blade
Right Hand

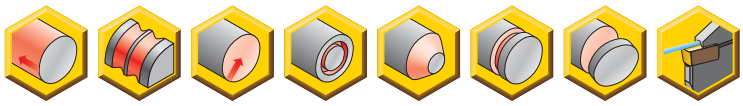
Modular Straight Toolholder with Coolant • Metric

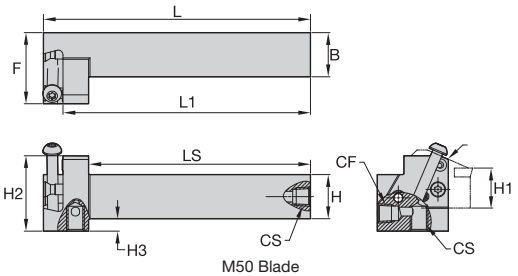
order number	catalog number	B	H	H1	L1	F	CS	CF	LS	H3	blade size	blade screw	Torx	clamping screw	Torx
right hand															
5979190	**KGMSR2525M50C**	25	25	25	138,75	13,84	G 1/8	G 1/8	109,00	7,00	50	**MS1162**	T25	**MS2002**	T25
5979745	**KGMSR2525M65C**	25	25	25	150,00	13,00	G 1/8	G 1/8	122,00	14,00	65	**MS1163**	T30	**–**	–
5979746	**KGMSR3232P50C**	32	32	32	158,75	20,81	G 1/8	G 1/8	133,62	–	50	**MS1162**	T25	**MS2002**	T25
5979747	**KGMSR3232P65C**	32	32	32	170,00	20,00	G 1/8	G 1/8	138,50	7,00	65	**MS1163**	T30	**–**	–
left hand															
5979191	**KGMSL2525M50C**	25	25	25	138,75	13,84	G 1/8	G 1/8	109,00	7,00	50	**MS1162**	T25	**MS2002**	T25
5979748	**KGMSL2525M65C**	25	25	25	150,00	13,00	G 1/8	G 1/8	122,00	14,00	65	**MS1163**	T30	**–**	–
5979749	**KGMSL3232P50C**	32	32	32	158,75	20,80	G 1/8	G 1/8	133,62	–	50	**MS1162**	T25	**MS2002**	T25
5979750	**KGMSL3232P65C**	32	32	32	170,00	20,00	G 1/8	G 1/8	142,00	7,00	65	**MS1163**	T30	**–**	–

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

screw catalog number	screw order number	torque Nm	torque in. lbs.	thread	socket	wrench catalog number	wrench order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

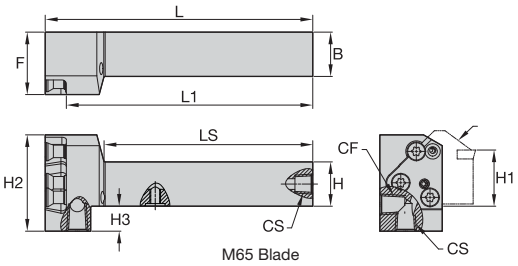
- Interchangeable blades for versatility and depth of cut.
- Through the pocket coolant capable.



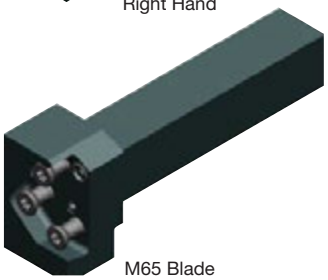


M50 Blade

M50 Blade
Right Hand



M65 Blade


M65 Blade
Right Hand

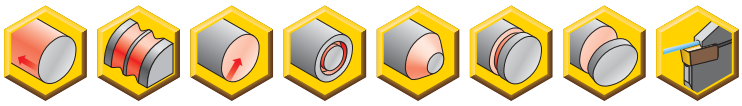
Modular End Mount Toolholder with Coolant • Inch

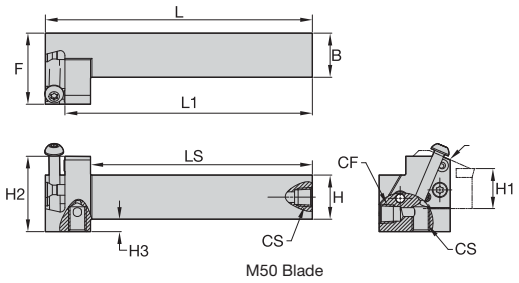
order number	catalog number	H	H1	B	L1	LS	F	H2	H3	blade size	blade screw	Torx	clamp screw	Torx
right hand														
5979196	**KGMER1650C**	1.00	1.00	1.00	5.5	4.96	1.58	1.67	0.25	50	–	T25	–	T25
5979814	**KGMER1665C**	1.00	1.00	1.00	5.5	4.70	1.38	2.09	0.50	65	**MS1163**	T30	–	–
5979815	**KGMER2050C**	1.25	1.25	1.25	5.5	4.96	1.58	1.67	–	50	–	T25	–	T25
5979816	**KGMER2065C**	1.25	1.25	1.25	5.5	4.70	1.38	2.09	0.25	65	**MS1163**	T30	–	–
5979817	**KGMER2450C**	1.50	1.50	1.50	5.5	4.96	1.58	1.92	–	50	**MS1162**	T25	**MS2002**	T25
5979818	**KGMER2465C**	1.50	1.50	1.50	6.5	5.70	1.49	2.09	–	65	**MS1163**	T30	–	–
left hand														
5979197	**KGMEL1650C**	1.00	1.00	1.00	5.5	4.96	1.58	1.67	0.25	50	–	T25	–	T25
5979819	**KGMEL1665C**	1.00	1.00	1.00	5.5	4.70	1.38	2.09	0.50	65	**MS1163**	T30	–	–
5979820	**KGMEL2050C**	1.25	1.25	1.25	5.5	4.96	1.58	1.67	–	50	–	T25	–	T25
5979881	**KGMEL2065C**	1.25	1.25	1.25	5.5	4.70	1.38	2.09	0.25	65	**MS1163**	T30	–	–
5979882	**KGMEL2450C**	1.50	1.50	1.50	5.5	4.96	1.58	1.92	–	50	**MS1162**	T25	**MS2002**	T25
5979883	**KGMEL2465C**	1.50	1.50	1.50	6.5	5.70	1.49	2.09	–	65	**MS1163**	T30	–	–

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm)
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm)

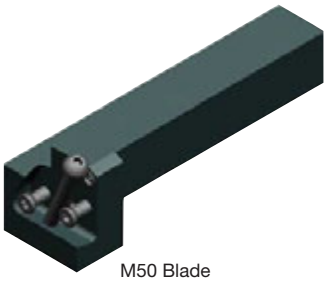
screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

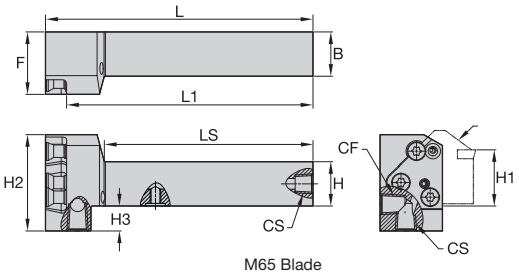
- Interchangeable blades for versatility and depth of cut.
- Through the pocket coolant capable.



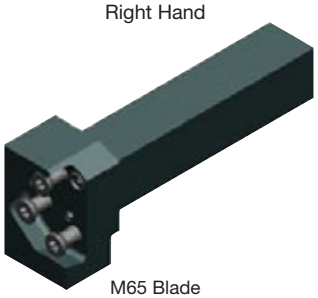


M50 Blade


M50 Blade
Right Hand



M65 Blade


M65 Blade
Right Hand

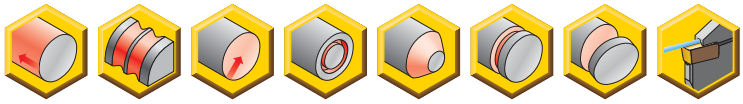
Modular End Mount Toolholder with Coolant • Metric

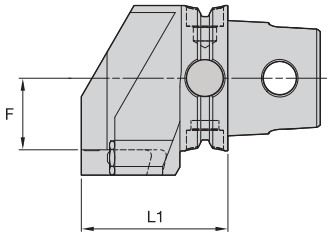
order number	catalog number	B	H	H1	L1	F	CS	CF	LS	H3	blade size	blade screw	Torx	clamping screw	Torx
right hand															
5979765	**KGMER2525M65C**	25	25	25	138,15	35,00	G 1/8	G 1/8	117,00	14,00	65	**MS1163**	T30	**–**	–
5979192	**KGMER2525M50C**	25	25	25	139,25	40,00	G 1/8	G 1/8	124,85	7,00	50	**MS1162**	T25	**MS2002**	T25
5979767	**KGMER3232P65C**	32	32	32	158,15	35,00	G 1/8	G 1/8	137,00	7,00	65	**MS1163**	T30	**–**	–
5979766	**KGMER3232P50C**	32	32	32	159,25	40,00	G 1/8	G 1/8	145,25	–	50	**MS1162**	T25	**MS2002**	T25
left hand															
5979768	**KGMEL2525M65C**	25	25	25	138,15	35,00	G 1/8	G 1/8	117,00	14,00	65	**MS1163**	T30	**–**	–
5979193	**KGMEL2525M50C**	25	25	25	139,25	40,00	G 1/8	G 1/8	124,85	7,00	50	**MS1162**	T25	**MS2002**	T25
5979770	**KGMEL3232P65C**	32	32	32	158,15	35,00	G 1/8	G 1/8	137,00	7,00	65	**MS1163**	T30	**–**	–
5979769	**KGMEL3232P50C**	32	32	32	159,25	40,00	G 1/8	G 1/8	145,25	–	50	**MS1162**	T25	**MS2002**	T25

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

screw catalog number	screw order number	torque Nm	torque in. lbs.	thread	socket	wrench catalog number	wrench order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- Best-in-class KM Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.





Right Hand

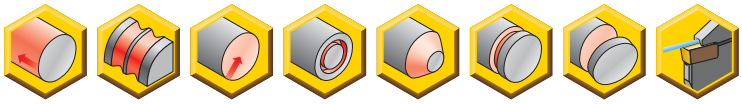
KM QUICK CHANGE

Modular Straight KM System with Coolant

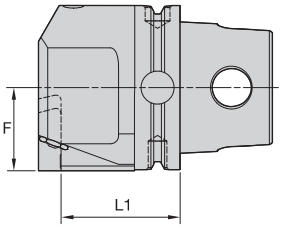
order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
5999790	**KM40TSKGMSR50C**	KM40TS	53,5	2.11	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000422	**KM50TSKGMSR65C**	KM50TS	53,5	2.11	22,0	.87	65	**MS1163**	T30	**–**	–
5999864	**KM50TSKGMSR50C**	KM50TS	58,5	2.30	23,0	.91	50	**MS1162**	T25	**MS2002**	T25
6000431	**KM63TSKGMSR65C**	KM63TS	58,5	2.30	30,0	1.18	65	**MS1163**	T30	**–**	–
5999948	**KM63TSKGMSR50C**	KM63TS	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
5999972	**KM63XMZKGMSR50CY**	KM63XMZ	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
6017695	**KM80TSKGMSR65C**	KM80TS	63,5	2.50	40,0	1.58	65	**MS1163**	T30	**–**	–
6000018	**KM80ATCKGMSR50C**	KM80ATC	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25
6000014	**KM80TSKGMSR50C**	KM80TS	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25
left hand											
5999861	**KM40TSKGMSL50C**	KM40TS	53,5	2.11	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000424	**KM50TSKGMSL65C**	KM50TS	53,5	2.11	22,0	.87	65	**MS1163**	T30	**–**	–
5999865	**KM50TSKGMSL50C**	KM50TS	58,5	2.30	23,0	.91	50	**MS1162**	T25	**MS2002**	T25
6000433	**KM63TSKGMSL65C**	KM63TS	58,5	2.30	30,0	1.18	65	**MS1163**	T30	**–**	–
5999949	**KM63TSKGMSL50C**	KM63TS	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
5999973	**KM63XMZKGMSLF50CY**	KM63XMZ	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
6017696	**KM80TSKGMSL65C**	KM80TS	63,5	2.50	40,0	1.58	65	**MS1163**	T30	**–**	–
6000019	**KM80ATCKGMSL50C**	KM80ATC	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25
6000015	**KM80TSKGMSL50C**	KM80TS	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

- Best-in-class KM Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.



KM QUICK CHANGE



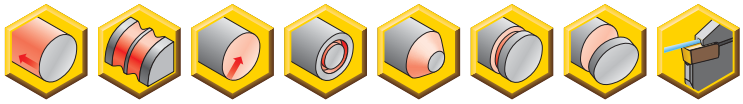
Right Hand

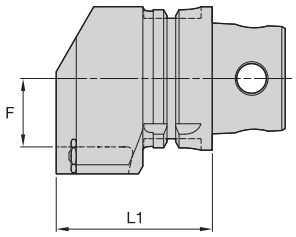
Modular End Mount KM System with Coolant • Metric

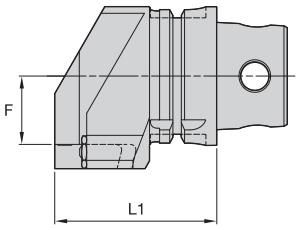
order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
5999788	**KM40TSKGMER50C**	KM40TS	28,0	1.10	20,50	0.81	50	**MS1162**	T25	**MS2002**	T25
5999862	**KM50TSKGMER50C**	KM50TS	38,0	1.50	25,50	1.00	50	**MS1162**	T25	**MS2002**	T25
6000410	**KM50TSKGMER65C**	KM50TS	47,0	1.85	25,50	1.00	65	**MS1163**	T30	**–**	–
6000425	**KM63TSKGMER65C**	KM63TS	47,0	1.85	32,52	1.28	65	**MS1163**	T30	**–**	–
5999946	**KM63TSKGMER50C**	KM63TS	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6000434	**KM63XMZKGMER65CY**	KM63XMZ	47,0	1.85	32,50	1.28	65	**MS1163**	T30	**–**	–
5999950	**KM63XMZKGMER50CY**	KM63XMZ	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6017697	**KM80ATCKGMER65C**	KM80ATC	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000016	**KM80ATCKGMER50C**	KM80ATC	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25
6017693	**KM80TSKGMER65C**	KM80TS	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000012	**KM80TSKGMER50C**	KM80TS	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25
left hand											
5999789	**KM40TSKGMEL50C**	KM40TS	28,0	1.10	20,50	0.81	50	**MS1162**	T25	**MS2002**	T25
5999863	**KM50TSKGMEL50C**	KM50TS	38,0	1.50	25,50	1.00	50	**MS1162**	T25	**MS2002**	T25
6000421	**KM50TSKGMEL65C**	KM50TS	47,0	1.85	25,50	1.00	65	**MS1163**	T30	**–**	–
6000430	**KM63TSKGMEL65C**	KM63TS	47,0	1.85	32,52	1.28	65	**MS1163**	T30	**–**	–
5999947	**KM63TSKGMEL50C**	KM63TS	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6000436	**KM63XMZKGMELF65CY**	KM63XMZ	47,0	1.85	32,50	1.28	65	**MS1163**	T30	**–**	–
5999971	**KM63XMZKGMELF50CY**	KM63XMZ	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6017698	**KM80ATCKGMEL65C**	KM80ATC	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000017	**KM80ATCKGMEL50C**	KM80ATC	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25
6017694	**KM80TSKGMEL65C**	KM80TS	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000013	**KM80TSKGMEL50C**	KM80TS	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25

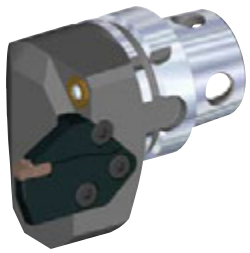
NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (81–10 Nm).
M65 blade and clamp screw torque equals 1591–177 in. lbs. (181–20 Nm).

- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.







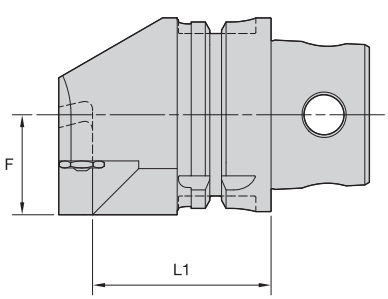


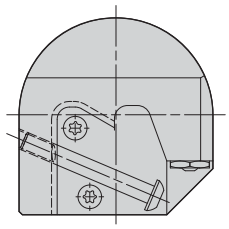
Right Hand

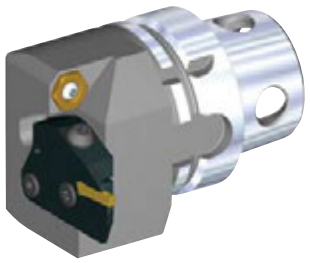
Modular Straight KM4X™ System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
5543560	**KM4X63KGMSR65C**	KM4X63	68,5	2.70	30,0	1.18	65	**MS1163**	T30	**–**	–
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	2.89	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
left hand											
5543558	**KM4X63KGMSL65C**	KM4X63	68,5	2.70	30,0	1.18	65	**MS1163**	T30	**–**	–
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	2.89	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

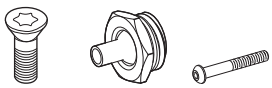






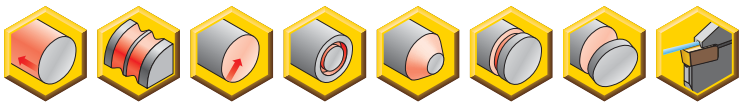
Right Hand

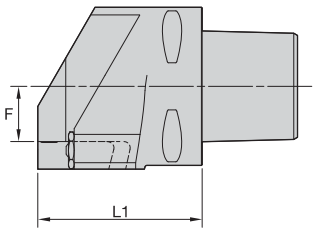
Modular End Mount KM4X System with Coolant

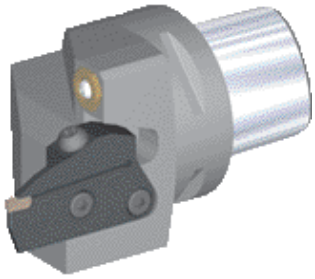


order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	cartridge size	blade screw	nozzle	clamp screw	kg	lbs
right hand												
5543555	**KM4X63KGMER65C**	KM4X63	57,0	2.244	32,5	1.280	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000404	**KM4X63KGMER50C**	KM4X63	58,0	2.283	32,5	1.280	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	2.894	31,0	1.220	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11
left hand												
5543553	**KM4X63KGMEL65C**	KM4X63	57,0	2.244	32,5	1.280	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000405	**KM4X63KGMEL50C**	KM4X63	58,0	2.283	32,5	1.280	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	2.894	31,0	1.220	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11

- Standard PSC Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.





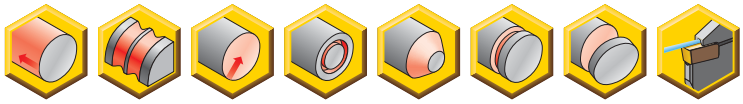


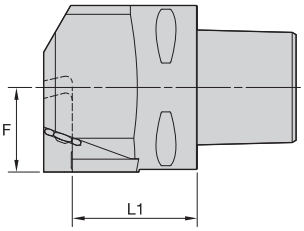
Right Hand

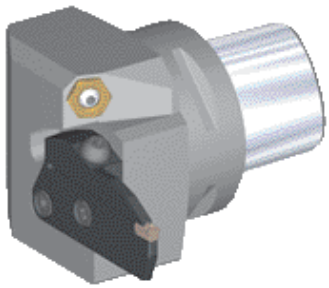
Modular Straight PSC System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
6000028	**PSC40KGMSR50C**	PSC40	63,5	2.50	10,0	.39	50	**MS1162**	T25	**MS2002**	T25
5405654	**PSC50KGMSR65C**	PSC50	49,0	1.93	25,5	1.00	65	**MS1163**	T30	**–**	–
6000152	**PSC50KGMSR50C**	PSC50	63,5	2.50	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000464	**PSC63KGMSR65C**	PSC63	60,5	2.38	21,0	.83	65	**MS1163**	T30	**–**	–
6000211	**PSC63KGMSR50C**	PSC63	65,5	2.58	22,0	.87	50	**MS1162**	T25	**MS2002**	T25
6000468	**PSC80KGMSR65C**	PSC80	68,5	2.70	29,0	1.14	65	**MS1163**	T30	**–**	–
6000216	**PSC80KGMSR50C**	PSC80	73,5	2.89	30,0	1.18	50	**MS1162**	T25	**MS2002**	T25
left hand											
6000029	**PSC40KGMSL50C**	PSC40	63,5	2.50	10,0	.39	50	**MS1162**	T25	**MS2002**	T25
5405655	**PSC50KGMSL65C**	PSC50	49,0	1.93	25,5	1.00	65	**MS1163**	T30	**–**	–
6000153	**PSC50KGMSL50C**	PSC50	63,5	2.50	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000465	**PSC63KGMSL65C**	PSC63	60,5	2.38	21,0	.83	65	**MS1163**	T30	**–**	–
6000213	**PSC63KGMSL50C**	PSC63	65,5	2.58	22,0	.87	50	**MS1162**	T25	**MS2002**	T25
6000469	**PSC80KGMSL65C**	PSC80	68,5	2.70	29,0	1.14	65	**MS1163**	T30	**–**	–
6000217	**PSC80KGMSL50C**	PSC80	73,5	2.89	30,0	1.18	50	**MS1162**	T25	**MS2002**	T25

- Standard PSC Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.







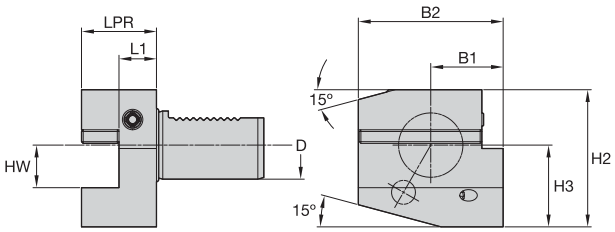
Right Hand

Modular End Mount PSC System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
6000026	**PSC40KGMER50C**	PSC40	33,0	1.30	20,5	.81	50	**MS1162**	T25	**MS2002**	T25
6000030	**PSC50KGMER50C**	PSC50	43,0	1.69	25,5	1.00	50	**MS1162**	T25	**MS2002**	T25
5405652	**PSC50KGMER65C**	PSC50	55,5	2.19	22,0	.87	65	**MS1163**	T30	**–**	–
6000159	**PSC63KGMER50C**	PSC63	48,0	1.89	32,5	1.28	50	**MS1162**	T25	**MS2002**	T25
6000462	**PSC63KGMER65C**	PSC63	49,0	1.93	32,5	1.28	65	**MS1163**	T30	**–**	–
6000466	**PSC80KGMER65C**	PSC80	57,0	2.24	40,5	1.59	65	**MS1163**	T30	**–**	–
6000214	**PSC80KGMER50C**	PSC80	58,0	2.28	40,5	1.59	50	**MS1162**	T25	**MS2002**	T25
left hand											
6000027	**PSC40KGMEL50C**	PSC40	33,0	1.30	20,5	.81	50	**MS1162**	T25	**MS2002**	T25
6000151	**PSC50KGMEL50C**	PSC50	43,0	1.69	25,5	1.00	50	**MS1162**	T25	**MS2002**	T25
5405653	**PSC50KGMEL65C**	PSC50	55,5	2.19	22,0	.87	65	**MS1163**	T30	**–**	–
6000160	**PSC63KGMEL50C**	PSC63	48,0	1.89	32,5	1.28	50	**MS1162**	T25	**MS2002**	T25
6000463	**PSC63KGMEL65C**	PSC63	49,0	1.93	32,5	1.28	65	**MS1163**	T30	**–**	–
6000467	**PSC80KGMEL65C**	PSC80	57,0	2.24	40,5	1.59	65	**MS1163**	T30	**–**	–
6000215	**PSC80KGMEL50C**	PSC80	58,0	2.28	40,5	1.59	50	**MS1162**	T25	**MS2002**	T25

VDI Toolholders

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

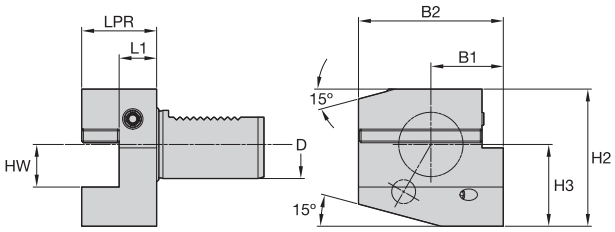


VDI Form B1• HPC • Right Hand Short • Metric

order number	catalog number	D	B2	B1	HW	H2	H3	L1	LPR
6151491	**VDIB1M302040C**	30,00	70,00	35,00	20,00	66,00	38,00	22,00	40,00
6151492	**VDIB1M402544C**	40,00	85,00	42,50	25,00	80,50	48,00	22,00	44,00

VDI Form B2 • Left Hand Short

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

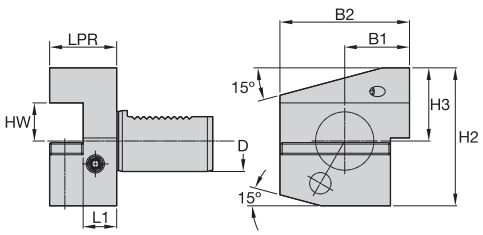


Artwork shows right hand tool.
Left hand tool mirror inverted.

VDI Form B2 • HPC • Left Hand Short • Metric

order number	catalog number	D	B2	B1	HW	H2	H3	L1	LPR
6151493	**VDIB2M302040C**	30,00	70,00	35,00	20,00	66,00	38,00	22,00	40,00
6151494	**VDIB2M402544C**	40,00	85,00	42,50	25,00	80,50	48,00	22,00	44,00

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

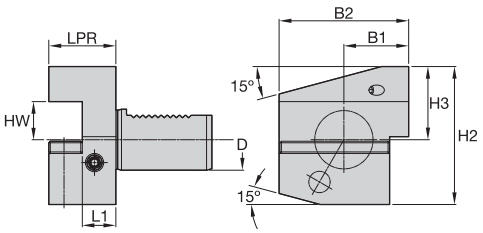


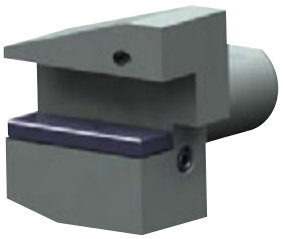
VDI Form B3 • HPC • Right Hand Short Inverted • Metric

order number	catalog number	D	B2	B1	HW	H2	H3	L1	LPR
6151495	**VDIB3M302040C**	30,00	70,00	35,00	20,00	73,00	38,00	22,00	40,00
6151497	**VDIB3M402544C**	40,00	85,00	42,50	25,00	90,50	48,00	22,00	44,00

VDI Form B4 • Left Hand Short Inverted

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.



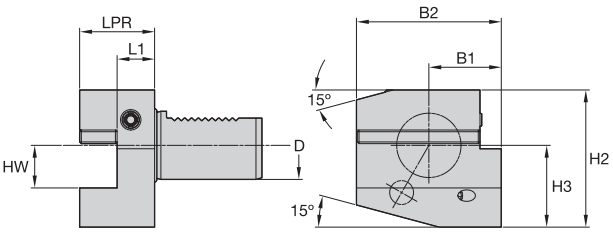


Artwork shows right hand tool.
Left hand tool mirror inverted.

VDI Form B4 • HPC • Left Hand Short Inverted • Metric

order number	catalog number	D	B2	B1	HW	H2	H3	L1	LPR
6151498	**VDIB4M302040C**	30,00	70,00	35,00	20,00	73,00	38,00	22,00	40,00
6151499	**VDIB4M402544C**	40,00	85,00	42,50	25,00	90,50	48,00	22,00	44,00

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

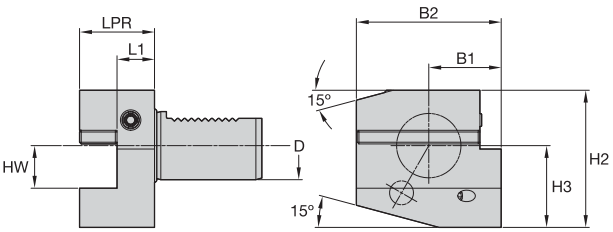


VDI Form B5 • HPC • Right Hand Long • Metric

order number	catalog number	D	B2	B1	HW	H2	H3	L1	LPR
6151500	**VDIB5M302040C**	30,00	100,00	65,00	20,00	66,00	38,00	22,00	40,00
6151511	**VDIB5M402544C**	40,00	118,00	75,50	25,00	80,50	48,00	22,00	44,00

VDI Form B6 • Left Hand Long

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

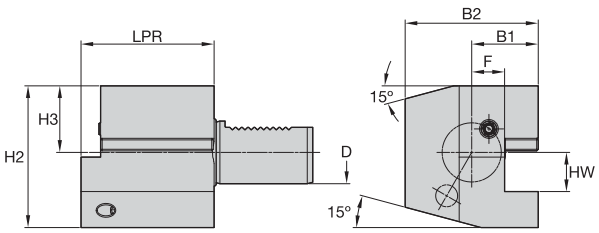


Artwork shows right hand tool.
Left hand tool mirror inverted.

VDI Form B6 • HPC • Left Hand Long • Metric

order number	catalog number	D	B2	B1	HW	H2	H3	L1	LPR
6151512	**VDIB6M302040C**	30,00	100,00	65,00	20,00	66,00	38,00	22,00	40,00
6151513	**VDIB6M402544C**	40,00	118,00	75,50	25,00	80,50	48,00	22,00	44,00

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

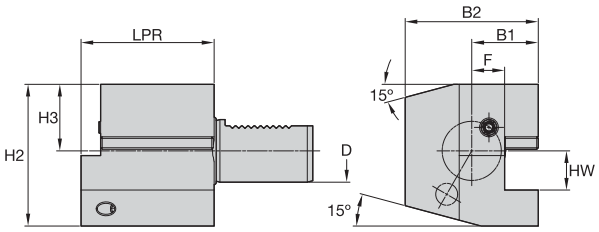


VDI Form C1 • HPC • Right Hand • Metric

order number	catalog number	D	B2	B1	F	HW	H2	H3	LPR
6151514	**VDIC1M302070C**	30,00	70,00	35,00	17,00	20,00	66,00	38,00	70,00
6151515	**VDIC1M402585C**	40,00	85,00	42,50	21,00	25,00	80,50	48,00	85,00

VDI Form C2 • Left Hand

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

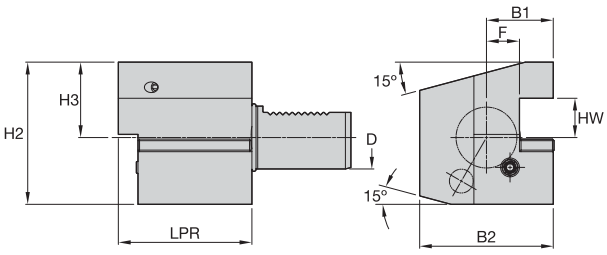


Artwork shows right hand tool.
Left hand tool mirror inverted.

VDI Form C2 • HPC • Left Hand • Metric

order number	catalog number	D	B2	B1	F	HW	H2	H3	LPR
6151516	**VDIC2M302070C**	30,00	76,00	41,00	23,00	20,00	66,00	38,00	70,00
6151517	**VDIC2M402585C**	40,00	90,00	47,50	25,50	25,00	80,50	48,00	85,00

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

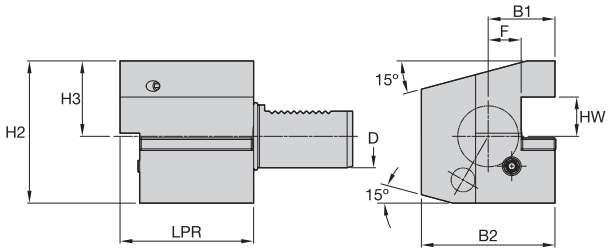


VDI Form C3 • HPC • Right Hand Inverted • Metric

order number	catalog number	D	B2	B1	F	HW	H2	H3	LPR
6151518	**VDIC3M302070C**	30,00	70,00	35,00	17,00	20,00	73,00	38,00	70,00
6151519	**VDIC3M402585C**	40,00	85,00	42,50	21,00	25,00	90,50	48,00	85,00

VDI Form C4 • Left Hand Inverted

- VDI adapter with coolant support for square shank toolholder.
- ISO 10889.

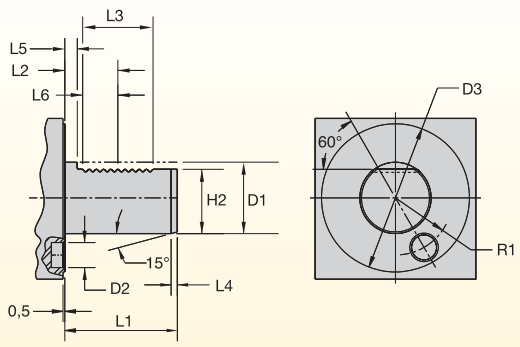


Artwork shows right hand tool.
Left hand tool mirror inverted.

VDI Form C4 • HPC • Left Hand Inverted • Metric

order number	catalog number	D	B2	B1	F	HW	H2	H3	LPR
6151520	**VDIC4M302070C**	30,00	70,00	35,00	17,00	20,00	73,00	38,00	70,00
6151521	**VDIC4M402585C**	40,00	85,00	42,50	21,00	25,00	90,50	48,00	85,00

Shank Specifications



	D1	D2	D3	L1	L2	L3	L4	L5	L6	H2	R1
30	30,00	14,00	68,00	55,00	29,70	40,00	2,00	7,00	20,00	27,00	25,00
	1.181	0.551	2.677	2.165	1.169	1.575	0.079	0.276	0.787	1.063	0.984
40	40,00	14,00	83,00	63,00	29,70	40,00	3,00	7,00	20,00	36,00	32,00
	1.575	0.551	3.268	2.480	1.169	1.575	0.118	0.276	0.787	1.417	1.260
50	50,00	16,00	98,00	78,00	35,70	48,00	3,00	8,00	24,00	45,00	37,00
	1.969	0.630	3.858	3.071	1.406	1.890	0.118	0.315	0.945	1.772	1.457
60	60,00	16,00	123,00	94,00	43,70	56,00	4,00	10,00	28,00	55,00	48,00
	2.362	0.630	4.843	3.701	1.720	2.205	0.157	0.394	1.102	2.165	1.890

A4™ Tooling and Beyond™ Inserts

Choose A4 tooling for turning, facing, grooving, face grooving, and cut-off applications across a broad range of workpiece materials. The unique clamping system and versatile insert geometry delivers a very high metal removal rate.

FEATURES AND BENEFITS

A4 Grooving and Turning System

- One tool for turning, facing, grooving, face-grooving, and cut-off in O.D. and I.D. applications means exceptionally fast cycle times, no turret indexes!
- Extra-long clamping area, ground 120° bottom prism seating surface, and an exclusive top guide rail combine to deliver unsurpassed grooving and side-turning stability!
- Precise insert positioning is ensured for accurate cuts!
- Rigid clamping securely locks insert in place through the toughest cuts.
- Versatile design enables one system to handle O.D. and I.D. grooving, face grooving, back turning, undercutting, and even threading operations.
- Chip control inserts provide excellent chip evacuation in grooving, and offer better chip control in multidirectional turning.

Experience the advantages at your Authorized Kennametal Distributor or at **kennametal.com**.

KENNAMETAL®

kennametal.com

beyond™ EVOLUTION™

Connecting the tool to your machine is easy. Just select one of the two available hose packages, and Active Coolant Control will be keeping you cool in no time!

Don't know exactly what you need?

To connect Beyond™ Evolution™ tooling to the industry's most common machines. The Kennametal universal coolant packs are ideal! Each pack contains the most common thread sizes with a variety of fitting styles for maximum flexibility.

Universal 200mm Coolant Pack

order number	catalog number	quantity	description
6145372	COOL-KIT-101	1	1/16 NPTF male to 7/16 JIC male fitting
		1	1/8 NPTF male to 7/16 JIC male fitting
		1	G1/8 male to 7/16 JIC male fitting
		1	M10 x 1,5 male to 7/16 JIC male fitting
		2	Male JIC to Swivel Female JIC Elbow
		1	200mm Hose Female JIC to Female JIC

Universal 300mm Coolant Pack

order number	catalog number	quantity	description
6145373	COOL-KIT-201	1	1/16 NPTF male to 7/16 JIC male fitting
		1	1/8 NPTF male to 7/16 JIC male fitting
		1	G1/8 male to 7/16 JIC male fitting
		1	M10 x 1,5 male to 7/16 JIC male fitting
		2	Male JIC to Swivel Female JIC Elbow
		1	300mm Hose Female JIC to Female JIC

Know what you need?

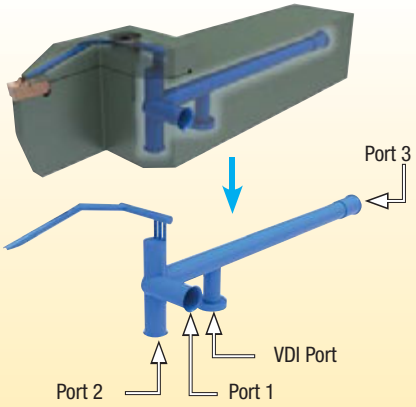
Every component is individually available, including less common fittings.
Knowing the precise components required will allow you to choose only the fittings you need!

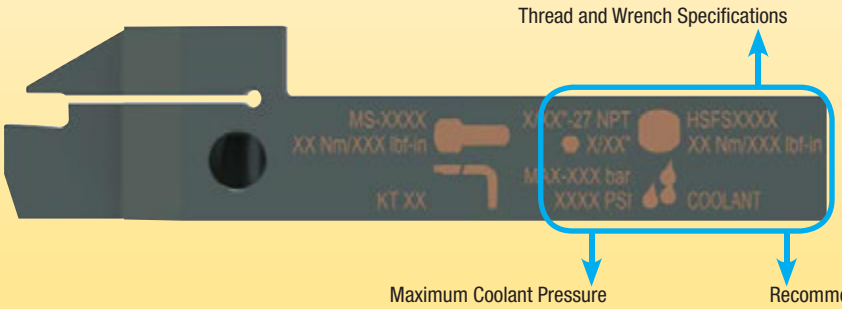
Coolant Hose Accessories

order number	catalog number	description
6145374	1-16NPTF-JIC	1/16 NPTF male to 7/16 JIC male fitting
6145375	1-8NPTF-JIC	1/8 NPTF male to 7/16 JIC male fitting
6145376	G18-JIC	G1/8 male to 7/16 JIC male fitting
6145377	M10-JIC	M10 x 1,5 male to 7/16 JIC male fitting
6145379	JICM-JICF-ELB	Male JIC to Swivel Female JIC Elbow
6145380	COOL-HOSE-200	200mm Female JIC to Female JIC
6145381	COOL-HOSE-300	300mm Female JIC to Female JIC
6145382	M6-JIC	M6 x 1,0 male to 7/16 JIC male fitting
6145378	M8-JIC	M8 x 1,25 male to 7/16 JIC male fitting
6145383	JICM-JICM-STR	7/16 JIC male to 7/16 JIC male adapter
6145386	G14-G18-RED	Male G1/4 to Female G1/8 reducer
6432549	COOL-HOSE-200-FLEX	Universal 200mm Flex Coolant Hose
6432550	COOL-HOSE-300-FLEX	Universal 300mm Flex Coolant Hose

Active Coolant Control Guidelines

1. Beyond™ Evolution™ system capable of 5076 psi (350 bar).
2. Toolholder delivered with four entry holes.
3. A quality filtration system is necessary to prevent blockages in the toolholder that will effect coolant flow and performance.
4. Machines without a proper filtering system may require modification or an inline filter.
   - For pressure >1015 psi [70 bar], use 10–20 µm filter.
   - For pressure <1015 psi [70 bar], 50–100 µm.
   - Using fine filters in low-pressure applications may affect flow rate.





General Safety Guidelines

1. All safety doors and mechanisms must be in place before trying out the internal coolant to avoid any danger to the operator in the event of a failure.
2. Use the correct pipe fittings to connect the holders to the system. Ensure the maximum pressure recommended for the fittings are not exceeded.
3. While implementing pressure >1160 psi [80 bar], increase the pressure in steps to ensure proper functioning of insert clamping and leak-free joints.
4. While indexing inserts, ensure the pocket is free from chips and/or dirt. Also, inspect the insert and make sure there are no blockages in the coolant canal.
5. Periodically check all hoses and fittings for damage and wear for proper functioning of the system. This check should also include filters.

Active Coolant Control Performance

Internal coolant offers a clear advantage in tool life and chip forming/evacuation vs. external coolant in difficult conditions and in high-pressure coolant.
Example: Chipbreaking in plunging of steel.

Flood Coolant | Internal Coolant

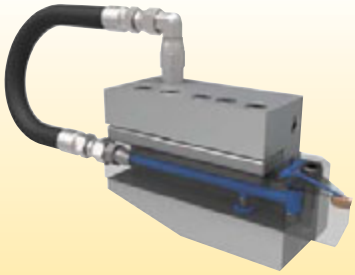
1,087 psi (75 bar) | 2,900 psi (200 bar)

Material steel ST52;
Insert size 6mm; f = 0,25 mm/U

Low Pressure — If performance is at risk due to low coolant pressure, apply internal coolant in combination with external coolant to increase volume.

Recommendation to improve tool life and/or productivity: Apply high pressure coolant: 80–350 bar recommended.

VDI Assemblies
The Beyond™ Evolution™ Active Coolant Control can be leveraged with VDI holding systems with both traditional or Quick-Change coolant connections.

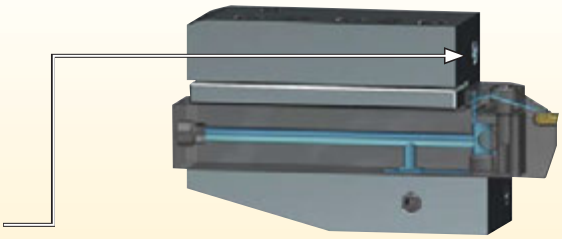


Coolant flow transfer from VDI adapter to toolholder

A marker on the toolholder must remain within the coolant range indicated on the VDI system for uninterrupted coolant transfer.

Technical Details

Pressure limit 1160 psi [lbf/in²] (80 bar).



Nozzle set comes pre-assembled.
For the holder application with internal coolant only nozzle can be plugged by M5 screw (delivered). Use LocTite light, medium strength, or thread sealant.

Holder	Slide Area	Max. Pressure	Torque (Pressure Screws)
VDI 30	0.87" (22mm)	1160 psi [lbf/in²] (80 bar)	14.75 ft. lb. (20 Nm)
VDI 40	1.18" (30mm)	1160 psi [lbf/in²] (80 bar)	25.81 ft. lb. (35 Nm)

Spare sets	
Nozzle	**PKGNLAL 1205M**
Set Pressure Screw, Pressure Plate, Spring	See separately for each type in BOM

A4™ Tooling and Beyond™ Inserts

For All Your O.D. and I.D. Applications

Primary Application

Choose A4 tooling for turning, facing, grooving, face grooving, and cut-off applications across a broad range of workpiece materials. The unique clamping system and versatile insert geometry delivers a very high metal removal rate.

Features and Benefits

A4 Grooving and Turning System

- One tool for turning, facing, grooving, face-grooving, and cut-off in O.D. and I.D. applications means exceptionally fast cycle times, no turret indexes!
- Extra-long clamping area, ground 120° bottom prism seating surface, and an exclusive top guide rail combine to deliver unsurpassed grooving and side-turning stability!
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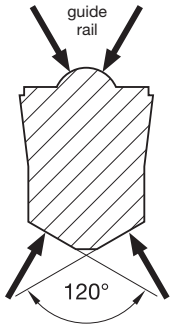
- Rigid clamping securely locks insert in place through the toughest cuts.
- Versatile design enables one system to handle O.D. and I.D. grooving, face grooving, back turning, undercutting, and even threading operations.
- Chip control inserts provide excellent chip evacuation in grooving, and offer better chip control in multidirectional turning.



A4 Chipbreakers

GMN Chipbreaker

GMP Chipbreaker

GMN Chipbreaker

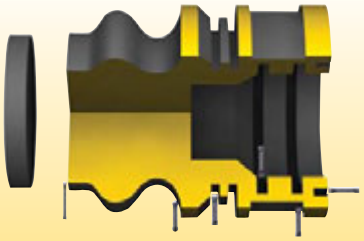
GMP Chipbreaker

GUP Chipbreaker

The A4™ System Increases Productivity

- Covers multiple applications.
- Reduces tool cost.
- Minimizes machining time.

Step 1 • Select A4 size for grooving and turning application



What you need to know:

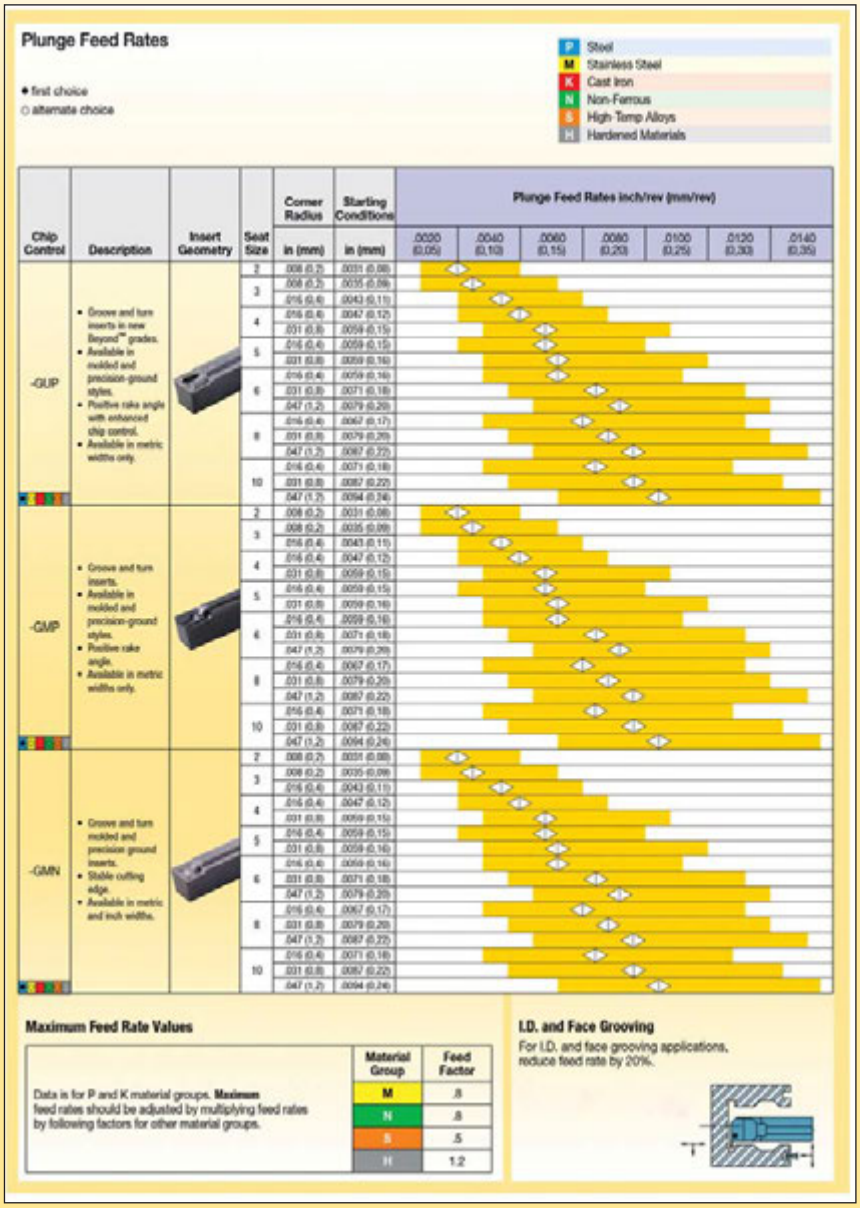
- Groove depth, width, and profile.
- Material being machined.
- Application to be performed (O.D. and I.D. grooving, turning, face grooving, and cut-off).

General Recommendation to Select the Insert Size

for workpiece diameters	insert seat size
<25mm	3
25–50mm	4
>50mm	5–10

Step 2 • Select chipbreaker style and feed rate

Based on the application and seat size, determine the recommended geometry and starting feed rate.



Step 3 • Select the starting speed

Based on material and grade, identify starting speed (vc). First choice is in **bold** type.

A Based on material group and grade, identify starting speed (vc).
B First choice starting speed is in **bold.**

Recommended Starting Speeds [m/min]

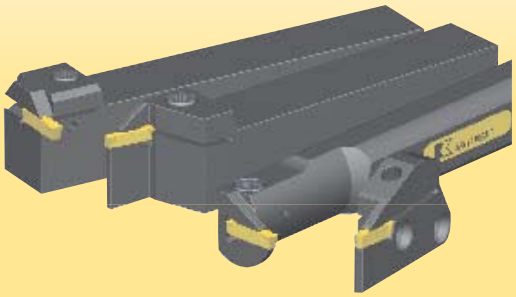
Material Group		K313			KCU10/KC5010			KCU25/KC5025			KCP10			KCP25			KCK20B			KY3500		
P	0-1	–	–	–	140	**280**	335	110	**225**	270	185	**400**	450	145	**290**	365	200	**440**	490	–	–	–
	2	–	–	–	140	**200**	245	110	**160**	195	185	**270**	350	145	**200**	305	200	**300**	380	–	–	–
	3	–	–	–	140	**155**	245	110	**125**	195	170	**190**	260	140	**155**	245	600	**200**	280	–	–	–
	4	–	–	–	75	**110**	170	60	**90**	135	90	**145**	200	75	**110**	180	100	**160**	220	–	–	–
	5	–	–	–	120	**200**	260	100	**160**	210	150	**220**	305	120	**200**	270	165	**240**	330	–	–	–
	6	–	–	–	110	**150**	230	85	**120**	185	120	**180**	275	110	**150**	230	130	**190**	300	–	–	–
M	1	60	**90**	120	140	**210**	260	90	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
	2	45	**75**	110	120	**200**	245	90	**150**	245	–	–	–	–	–	–	–	–	–	–	–	–
	3	35	**65**	100	120	**180**	245	90	**140**	210	–	–	–	–	–	–	–	–	–	–	–	–
K	1	30	**75**	120	120	**180**	245	100	**145**	195	170	**245**	440	140	**200**	360	210	**305**	550	180	**760**	1040
	2	25	**70**	110	90	**150**	210	70	**120**	170	120	**185**	340	100	**160**	280	150	**245**	430	275	**365**	500
	3	20	**60**	90	60	**110**	150	50	**85**	120	120	**170**	270	100	**140**	220	150	**210**	335	–	–	–
N	1-2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	120	**275**	430	120	**360**	610	100	**290**	490	–	–	–	–	–	–	–	–	–	–	–	–
	5	45	**90**	150	90	**170**	245	70	**135**	195	–	–	–	–	–	–	–	–	–	–	–	–
	6	40	**75**	150	120	**210**	305	100	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
S	1	8	**30**	75	15	**55**	135	8	**40**	60	–	–	–	–	–	–	–	–	–	–	–	–
	2	8	**35**	75	15	**60**	135	8	**30**	75	–	–	–	–	–	–	–	–	–	–	–	–
	3	8	**40**	75	15	**70**	135	15	**40**	75	–	–	–	–	–	–	–	–	–	–	–	–
	4	8	**45**	75	15	**70**	170	8	**50**	110	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

A
B

Step 4 • Select toolholder based on application

Choose the high-performance holder based on your specific grooving or cut-off application, with the corresponding seat size.

	conventional toolholders	modular blades
O.D. Grooving, Cut-Off, and Turning	1st Choice	2nd Choice
Face Grooving	1st Choice	2nd Choice
I.D. Grooving, Cut-Off, and Turning	1st Choice	—



NOTE: Insert seat size must match the seat size of the toolholder.

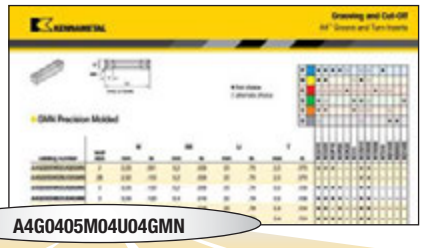
Step 5 • Select the insert and holder from catalog page

Congratulations!

You have successfully maximized your productivity by selecting the best insert geometry, grade, and cutting specifications for your application!

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



A4G0405M04U04GMN

Grooving and Turning Inserts

A4	G	0405	M	04	U	04	GMN
Tooling System	Insert Type	Groove Width	Unit of Measurement for Grooving Width	Seat Size	Insert Tolerance	Corner Radii	Chipbreaker Type/Edge Prep
A4 = Grooving and Turning	**G** = Square **R** = Full radius **C** = Cut-off	Expressed in 1/100mm or .00"	**M** = Metric **N** = Inch				

pocket seat size	cutting width in	cutting width mm
02	.079–.103	2,00–2,62
2B	.094–.103	2,39–2,62
03	.118–.120	3,0–3,05
04	.157–.159	4,0–4,05
05	.197–.159	5,0–5,05
06	.236–.199	6,0–6,05
08	.315–.238	8,0–8,05
10	.394–.317	10,0–10,05
2S	.079–.396	2,00–2,62
3S	.118–.120	3,00–3,05
4S	.157–.159	4,00–4,05
5S	.197–.199	5,00–5,05

P = Precision ground
grooving width tolerance:
± .001" (0,025mm)

U = Utility molded
grooving width tolerance:

3,05–4,05:	+ .006" / -0	(+0,15mm) / -0
5,05–10,05:	+ .010" / -0	(+0,25mm) / -0

in	mm
0 = .004	**01** = 0,1
05 = .008	**02** = 0,2
1 = .016	**04** = 0,4
2 = .032	**08** = 0,8
3 = .047	**12** = 1,2

full radius = 00

GMN =
Grooving and turning
medium machining
stable cutting edge

GMP =
Grooving and turning
medium machining
positive rake angle

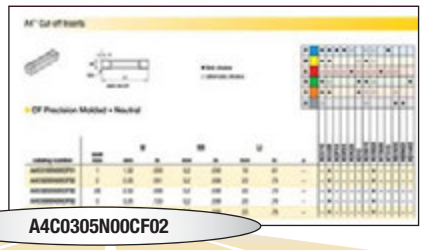
GUP =
Grooving and turning
high positive geometry.
Especially in stainless
steels and
high-temp alloys

B =
Flat top for special
forms and applications

E =
Flat top, slight
honed edge

S =
Negative land
plus hone

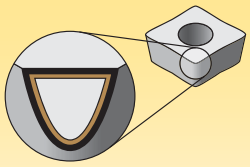
ST =
Single tip



A4C0305N00CF02

Grooving and Cut-Off

A4	C	0305	N	00	CF	02
Tooling System	Insert Type	Cutting Width	Hand of Insert	Main Cutting Edge Lead Angle	Chipbreaker Type	Corner Radius
A4 = Grooving and Turning	**C** = Cut-off	Expressed in 1/100mm	**R** = Right hand **L** = Left hand **N** = Neutral	**00** = Neutral **06** = 6° **10** = 10°	**CF** = Cut-off fine positive rake	in: .008 / mm: 02 = 0,2



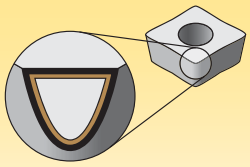
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCU10 —	**Composition:** An advanced multilayer PVD coating over a very deformation-resistant unalloyed carbide substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU10™ grade is ideal for finishing to general machining of most workpiece materials at a wide range of speed and feed capabilities. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and high-temp alloys with improved edge toughness, notch resistance, and higher cutting speed/feed capability.		P, K, N, S	P, K, N, S	P, K, N, S					
KCU25 —	**Composition:** An advanced PVD grade with hard AlTiN coating and fine-grain unalloyed substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU25™ grade is ideal for general machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials in a wide range of speeds and feeds with improved edge toughness for interrupted cut and high feed rates.				P, M, K, N, S	P, M, K, N, S	P, M, K, N, S			
KCP10 —	**Composition:** A specially engineered cobalt-enriched carbide grade with thick MTCVD TiCN-Al_2O_3 coating for maximum wear resistance. **Application:** An excellent finishing to medium machining grade for a variety of workpiece materials, including most steels, ferritic, martensitic, and PH stainless steels, and cast irons. The cobalt-enriched substrate offers a balanced combination of deformation resistance and edge toughness, while the thick coating layers offer outstanding abrasion resistance and crater wear resistance for high-speed machining. Smooth coating provides resistance to edge build-up and microchipping and produces excellent surface finishes.		P, K	P, K	P, K	K	K	K		
KCP25 —	**Composition:** A tough cobalt-enriched carbide grade with a multilayer MTCVD TiCN-Al_2O_3 coating with superior interlayer adhesion. **Application:** Best general-purpose turning grade for most steels and ferritic and martensitic stainless steels. The substrate design ensures adequate deformation resistance with excellent insert edge strength. Coating layers offer good wear resistance over a wide range of machining conditions and the post-coat treatment minimizes microchipping and improves coating adhesion to substrate leading to long tool life and improved workpiece finishes.		P, K	P, K	P, K	P, K	K	K	K	
KCK20 —	**Composition:** A specially toughened MTCVD TICN-Al_2O_3 coating over a wear-resistant substrate. **Application:** Specifically engineered to maximize coating adhesion and edge strength making this grade ideal in wet interrupted cutting of gray and ductile irons. It can be used in a wide range of applications from finishing to roughing to maximize productivity wherever strength and reliability are needed.		P, K	P, K	K	K	K			



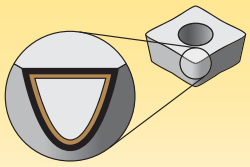
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

Grades

Coating	Grade Description		05	10	15	20	25	30	35	40	45
K313	**Composition:** A hard, low binder content, unalloyed WC/Co fine-grain grade. **Application:** Exceptional edge wear resistance combined with very high strength for machining titanium, cast irons, austenitic stainless steels, non-ferrous metals, non-metals, and most high-temp alloys. Superior thermal deformation and depth-of-cut notch resistance. The grain structure is well controlled for minimal pits and flaws, which contributes to long, reliable service.	M									
		K									
		N									
		S									
KC5010	**Composition:** An advanced PVD AlTiN coating over a very deformation-resistant unalloyed carbide substrate. **Application:** The KC5010™ grade is ideal for finishing to general machining of most workpiece materials at higher speeds. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and high-temp alloys under stable conditions. It also performs well machining hardened and short chipping materials.	P									
		M									
		K									
		N									
		S									
		H									
KC5025	**Composition:** An advanced PVD-AlTiN-coated grade with a tough, ultra-fine-grain unalloyed substrate. **Application:** For general-purpose machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials. Speeds may vary from low to medium and will handle interruptions and high feed rates.	P									
		M									
		K									
		N									
		S									



Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KY3500	**Composition:** Pure silicon nitride grade. **Application:** Maximum toughness. Used at high feed rates for rough machining of gray cast iron, including machining through interruptions.									
KT315	**Composition:** A multilayer PVD TiN/TiCN/TiN-coated cermet turning grade. **Application:** Ideal for high-speed finishing to medium machining of most carbon and alloy steels and stainless steels. Performs very well in cast and ductile iron applications, too. Provides long and consistent tool life and will produce excellent workpiece finishes.									
KB1630	**Composition:** An uncoated high content PcBN grade. PcBN tips are brazed onto a carbide insert. **Application:** Designed for roughing to finishing in interrupted cuts on hardened steels (>45 HRC). It can also be applied on gray cast iron, chilled irons, high chrome alloyed steels, high temp alloys and sintered powder metals. The tipped PcBN inserts are available in a wide range of insert styles, including Top Notch™ and Screw-On geometries.									
KB5625	**Composition:** A medium content PcBN with a PVD-TiN/AlTiN coating for added wear resistance. **Application:** Designed for roughing to finishing of hardened steels (>45 HRC). Use on bearing steels, hot and cold work steels, die steels, case hardened steels, carburized and nitrided irons and some hard coatings.									
KD1405	**Composition:** A pure CVD-deposited diamond-sheet tool brazed directly to a carbide substrate. **Application:** KD1405™ is the best Kennametal abrasion-resistant tool material for non-ferrous and non-metallic materials. Best applied when abrasion resistance is the desired benefit.									

Select the geometry

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

● first choice
○ alternate choice

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius in (mm)	Starting Conditions in (mm)	Plunge Feed Rates inch/rev (mm/rev) .0020 (0,05)	.0040 (0,10)	.0060 (0,15)	.0080 (0,20)	.0100 (0,25)	.0120 (0,30)	.0140 (0,35)
-GUP	Groove and turn inserts in new Beyond™ grades.		2	.008 (0,2)	.0031 (0,08)							
			3	.008 (0,2)	.0035 (0,09)							
				.016 (0,4)	.0043 (0,11)							
			4	.016 (0,4)	.0047 (0,12)							
				.031 (0,8)	.0059 (0,15)							

Recommended Starting Feed Rate

Corner Radius

Plunge Feed Rates

Pictorial View of Insert

Seat Size

Recommended Feed Rate Range

Primary Workpiece Material Group

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

● first choice
○ alternate choice

Chip Control Geometry Designation

Maximum Feed Rate Values

	Material Group	Feed Factor
Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.	M	.8
	N	1.2
	S	.8
	H	.5

Plunge Feed Rates

● first choice
○ alternate choice

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius in (mm)	Starting Conditions in (mm)	Plunge Feed Rates inch/rev (mm/rev) .0020 (0,05)	.0040 (0,10)	.0060 (0,15)	.0080 (0,20)	.0100 (0,25)	.0120 (0,30)	.0140 (0,35)
-GUP	• Groove and turn inserts in new Beyond™ grades. • Available in molded and precision-ground styles. • Positive rake angle with enhanced chip control. • Available in metric widths only.		2	.008 (0,2)	.0031 (0,08)	●	○					
			3	.008 (0,2)	.0035 (0,09)	●	○					
				.016 (0,4)	.0043 (0,11)		●	○				
			4	.016 (0,4)	.0047 (0,12)		●	○				
				.031 (0,8)	.0059 (0,15)			●	○			
			5	.016 (0,4)	.0059 (0,15)			●	○			
				.031 (0,8)	.0059 (0,16)			○	●	○		
			6	.016 (0,4)	.0059 (0,16)			○	●	○		
				.031 (0,8)	.0071 (0,18)				●	○		
				.047 (1,2)	.0079 (0,20)				○	●	○	
			8	.016 (0,4)	.0067 (0,17)				●	○		
				.031 (0,8)	.0079 (0,20)				○	●	○	
				.047 (1,2)	.0087 (0,22)					●	○	
			10	.016 (0,4)	.0071 (0,18)				●	○		
				.031 (0,8)	.0087 (0,22)					●	○	
				.047 (1,2)	.0094 (0,24)					○	●	○
-GMP	• Groove and turn inserts. • Available in molded and precision-ground styles. • Positive rake angle. • Available in metric widths only.		2	.008 (0,2)	.0031 (0,08)	●	○					
			3	.008 (0,2)	.0035 (0,09)	●	○					
				.016 (0,4)	.0043 (0,11)		●	○				
			4	.016 (0,4)	.0047 (0,12)		●	○				
				.031 (0,8)	.0059 (0,15)			●	○			
			5	.016 (0,4)	.0059 (0,15)			●	○			
				.031 (0,8)	.0059 (0,16)			○	●	○		
			6	.016 (0,4)	.0059 (0,16)			○	●	○		
				.031 (0,8)	.0071 (0,18)				●	○		
				.047 (1,2)	.0079 (0,20)				○	●	○	
			8	.016 (0,4)	.0067 (0,17)				●	○		
				.031 (0,8)	.0079 (0,20)				○	●	○	
				.047 (1,2)	.0087 (0,22)					●	○	
			10	.016 (0,4)	.0071 (0,18)				●	○		
				.031 (0,8)	.0087 (0,22)					●	○	
				.047 (1,2)	.0094 (0,24)					○	●	○
-GMN	• Groove and turn molded and precision ground inserts. • Stable cutting edge. • Available in metric and inch widths.		2	.008 (0,2)	.0031 (0,08)	●	○					
			3	.008 (0,2)	.0035 (0,09)	●	○					
				.016 (0,4)	.0043 (0,11)		●	○				
			4	.016 (0,4)	.0047 (0,12)		●	○				
				.031 (0,8)	.0059 (0,15)			●	○			
			5	.016 (0,4)	.0059 (0,15)			●	○			
				.031 (0,8)	.0059 (0,16)			○	●	○		
			6	.016 (0,4)	.0059 (0,16)			○	●	○		
				.031 (0,8)	.0071 (0,18)				●	○		
				.047 (1,2)	.0079 (0,20)				○	●	○	
			8	.016 (0,4)	.0067 (0,17)				●	○		
				.031 (0,8)	.0079 (0,20)				○	●	○	
				.047 (1,2)	.0087 (0,22)					●	○	
			10	.016 (0,4)	.0071 (0,18)				●	○		
				.031 (0,8)	.0087 (0,22)					●	○	
				.047 (1,2)	.0094 (0,24)					○	●	○

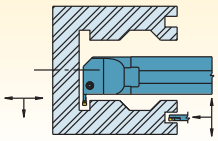
Maximum Feed Rate Values

Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.

Material Group	Feed Factor
M	.8
N	.8
S	.5
H	1.2

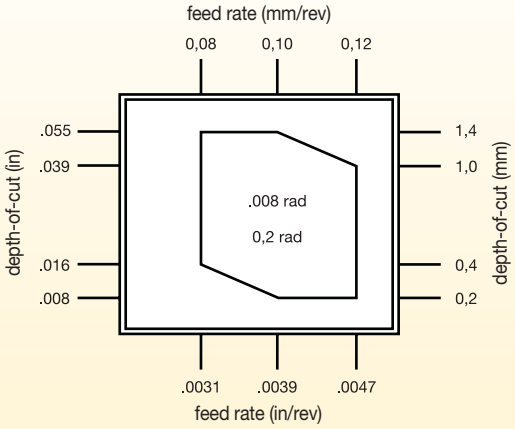
I.D. and Face Grooving

For I.D. and face grooving applications, reduce feed rate by 20%.

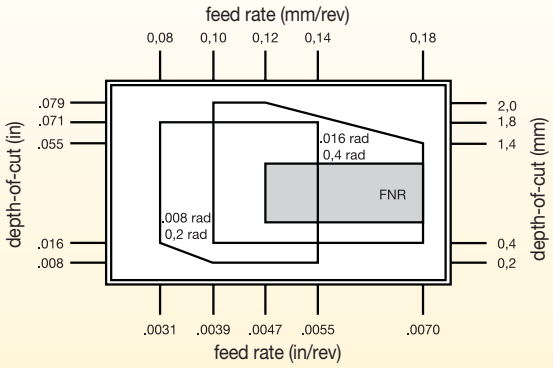


Turn and profile feed rates • GUP/GMP Geometries

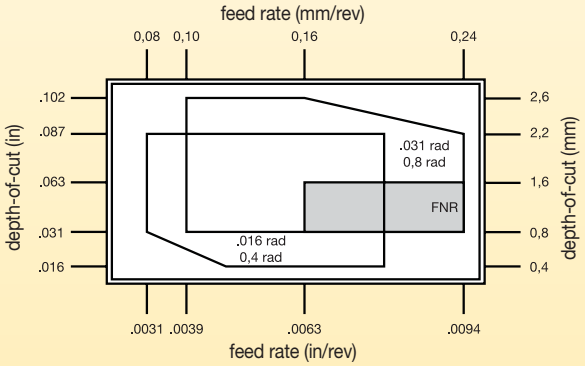
Seat Size 2



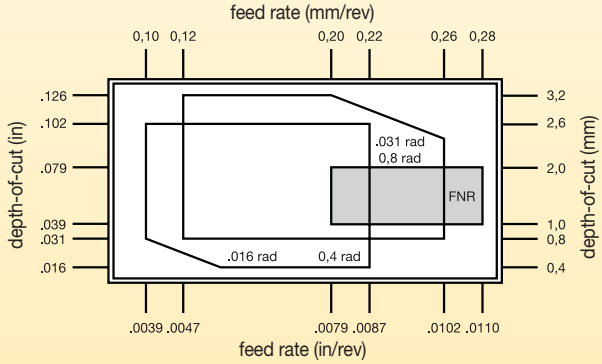
Seat Size 3



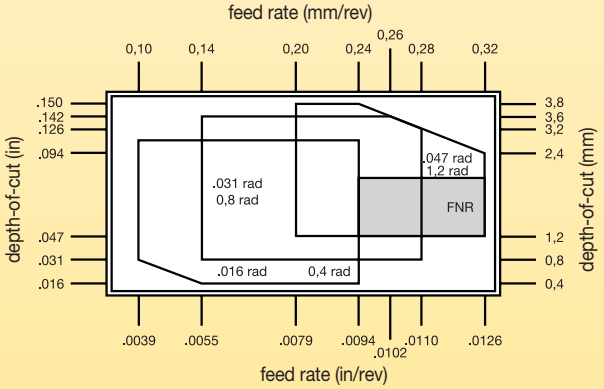
Seat Size 4



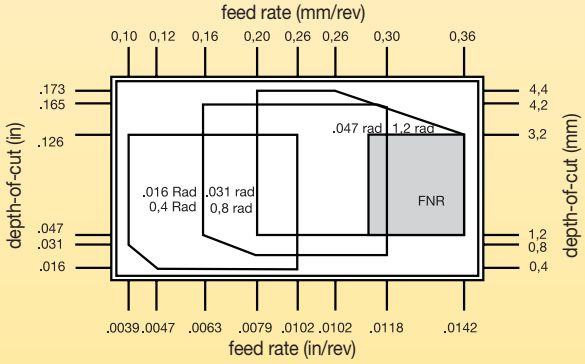
Seat Size 5



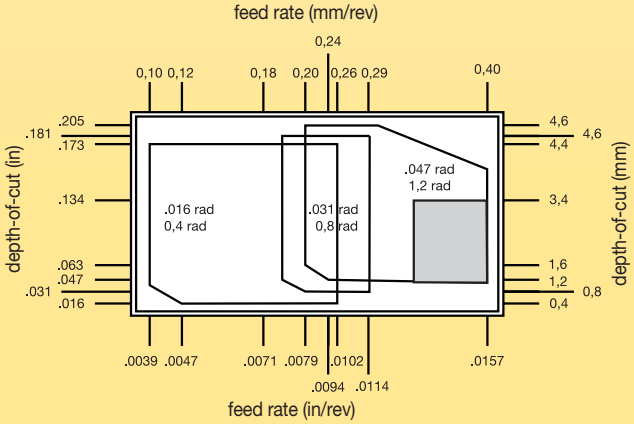
Seat Size 6



Seat Size 8

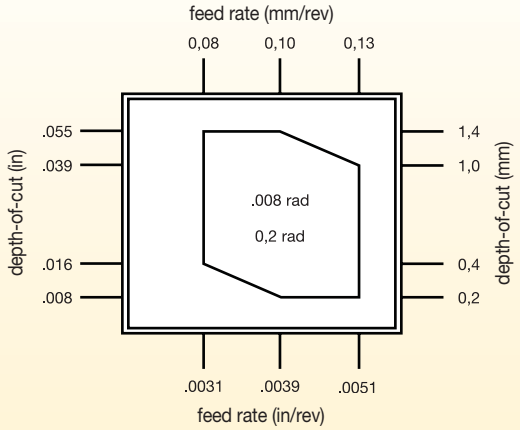


Seat Size 10

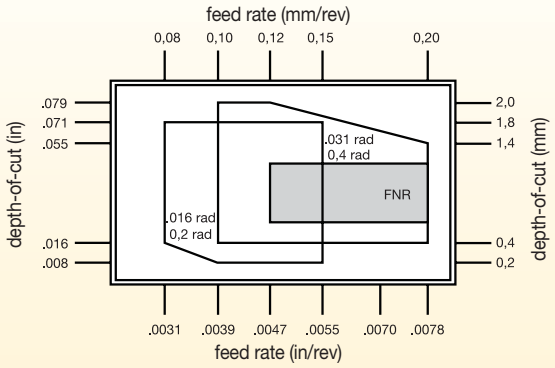


Turn and profile feed rates • GMN Geometries

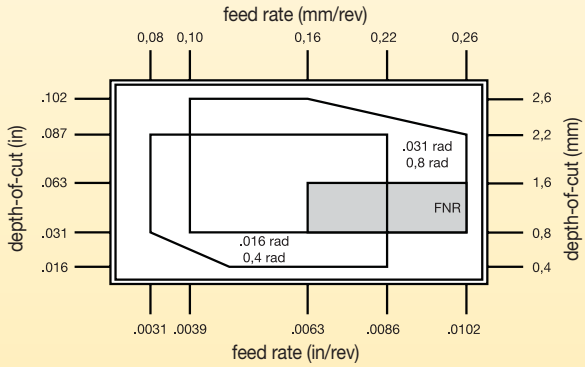
Seat Size 2



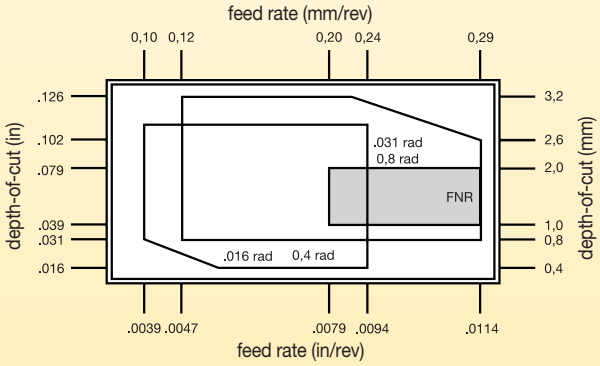
Seat Size 3



Seat Size 4



Seat Size 5



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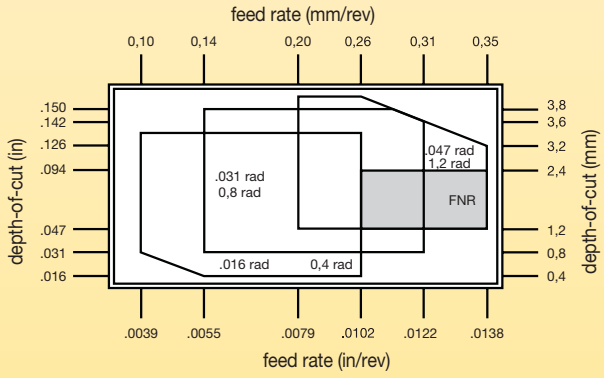
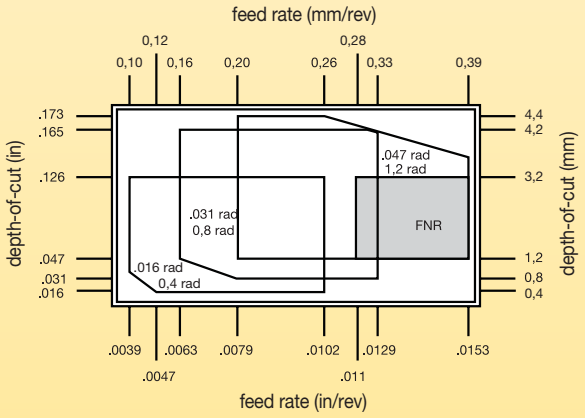
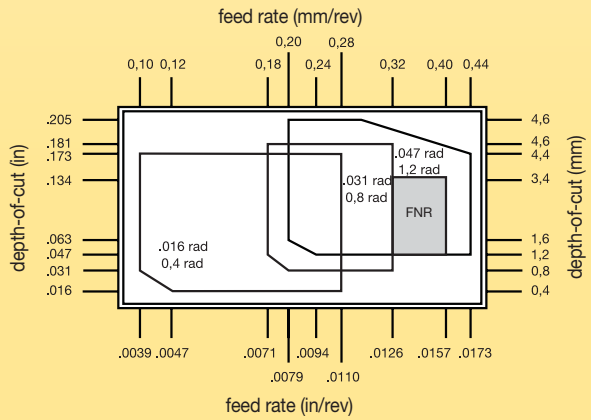


Seat Size 8



Seat Size 10



Cut-Off Feed Rates

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

● first choice
○ alternate choice

Chip Control	Description	Insert Geometry	Seat Size	Starting Conditions in (mm)	Cut-Off Feed Rates inch/rev (mm/rev) .0020 (0,05) .0040 (0,10) .0060 (0,15) .0080 (0,20)
-A4C-CF	• High positive rake angle. • Sharp cutting edge. • Available in neutral lead angle in 6° and 10° right- and left-hand styles.		1B	.0024 (0,06)	
			2/2B	.0028 (0,07)	
			3	.0035 (0,09)	
			4	.0043 (0,11)	

Maximum Feed Rate Values

	Material Group	Feed Factor
Data is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying feed rate values by following factors for other material groups.	M	.8
	N	.8
	S	.5
	H	1.2

Mobile Apps

The Kennametal mobile app makes it easy to access product information and calculators on both iPhone® and Android™ devices. We've highlighted a few of the key features...

There's an app for that.

SPEEDS & FEEDS

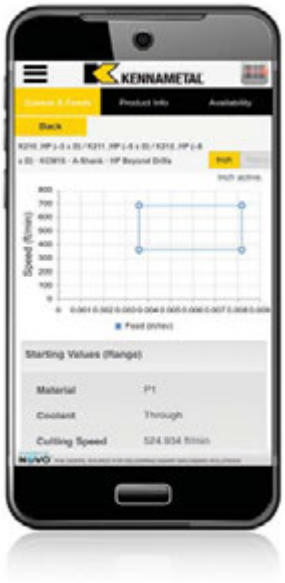
View speeds and feeds information for metalworking products.

PRODUCT AVAILABILITY

Check global availability of products. View available quantities by providing your Konnect login credentials.

CALCULATORS

Utilize our machining calculators for milling and drilling applications.



By just scanning the bar code on the insert packet, you can find the most productive cutting conditions for tool life, process time, and chip control.

NOTE: The app is currently only available in the English-language version. We have plans to translate the app in different languages with future releases.

Google play | Available on the App Store

Recommended Starting Speeds [m/min]

Material Group		K313			KCU10/KC5010			KCU25/KC5025			KCP10			KCP25			KCK20B			KY3500		
P	0–1	–	–	–	140	**280**	335	110	**225**	270	185	**400**	450	145	**290**	365	200	**440**	490	–	–	–
	2	–	–	–	140	**200**	245	110	**160**	195	185	**270**	350	145	**200**	305	200	**300**	380	–	–	–
	3	–	–	–	140	**155**	245	110	**125**	195	170	**190**	260	140	**155**	245	600	**200**	280	–	–	–
	4	–	–	–	75	**110**	170	60	**90**	135	90	**145**	200	75	**110**	180	100	**160**	220	–	–	–
	5	–	–	–	120	**200**	260	100	**160**	210	150	**220**	305	120	**200**	270	165	**240**	330	–	–	–
	6	–	–	–	110	**150**	230	85	**120**	185	120	**180**	275	110	**150**	230	130	**190**	300	–	–	–
M	1	60	**90**	120	140	**210**	260	90	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
	2	45	**75**	110	120	**200**	245	90	**150**	245	–	–	–	–	–	–	–	–	–	–	–	–
	3	35	**65**	100	120	**180**	245	90	**140**	210	–	–	–	–	–	–	–	–	–	–	–	–
K	1	30	**75**	120	120	**180**	245	100	**145**	195	170	**245**	440	140	**200**	360	210	**305**	550	180	**760**	1040
	2	25	**70**	110	90	**150**	210	70	**120**	170	120	**195**	340	100	**160**	280	150	**245**	430	275	**365**	500
	3	20	**60**	90	60	**110**	150	50	**85**	120	120	**170**	270	100	**140**	220	150	**210**	335	–	–	–
N	1–2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	120	**275**	430	120	**365**	610	100	**290**	490	–	–	–	–	–	–	–	–	–	–	–	–
	5	45	**90**	150	90	**170**	245	70	**135**	195	–	–	–	–	–	–	–	–	–	–	–	–
	6	40	**75**	150	120	**210**	305	100	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
S	1	8	**30**	75	15	**55**	135	8	**40**	60	–	–	–	–	–	–	–	–	–	–	–	–
	2	8	**35**	75	15	**60**	135	8	**30**	75	–	–	–	–	–	–	–	–	–	–	–	–
	3	8	**40**	75	15	**70**	135	15	**40**	75	–	–	–	–	–	–	–	–	–	–	–	–
	4	8	**45**	75	15	**70**	170	8	**50**	110	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Material Group		KT315			KB5625			KB1630			KD1405		
P	0–1	180	**440**	475	–	–	–	–	–	–	–	–	–
	2	195	**270**	400	–	–	–	–	–	–	–	–	–
	3	180	**210**	275	–	–	–	–	–	–	–	–	–
	4	75	**160**	210	–	–	–	–	–	–	–	–	–
	5	150	**250**	310	–	–	–	–	–	–	–	–	–
	6	140	**200**	300	–	–	–	–	–	–	–	–	–
M	1	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–
K	1	60	**275**	550	–	–	–	180	**760**	1040	–	–	–
	2	135	**275**	360	–	–	–	–	–	–	–	–	–
	3	180	**230**	360	–	–	–	–	–	–	–	–	–
N	1–2	–	–	–	–	–	–	–	–	–	365	**610**	1040
	3	–	–	–	–	–	–	–	–	–	275	**480**	800
	4	–	–	–	–	–	–	–	–	–	300	**550**	920
	5	–	–	–	–	–	–	–	–	–	275	**610**	1070
	6	–	–	–	–	–	–	–	–	–	150	**460**	760
S	1	–	–	–	–	–	–	120	**200**	275	–	–	–
	2	–	–	–	–	–	–	120	**215**	275	–	–	–
	3	–	–	–	–	–	–	120	**250**	275	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	45	**150**	230	45	**120**	170	–	–	–
	2	–	–	–	45	**140**	230	45	**110**	170	–	–	–
	3	–	–	–	45	**130**	230	45	**100**	170	–	–	–
	4	–	–	–	45	**120**	230	45	**90**	170	–	–	–

NOTE: FIRST choice starting speeds are in **bold** type.
As the average chip thickness increases, the speed should be decreased.

(continued)

(Recommended Starting Speeds — continued)

Recommended Starting Speeds [SFM]

Material Group		K313			KCU10/KC5010			KCU25/KC5025			KCP10			KCP25			KCK20B			KY3500		
P	0–1	–	–	–	450	**925**	1100	360	**740**	880	600	**1320**	1475	475	**925**	1200	660	**1450**	1620	–	–	–
	2	–	–	–	450	**650**	800	360	**520**	640	600	**880**	1150	475	**650**	1000	660	**970**	1260	–	–	–
	3	–	–	–	450	**510**	800	360	**410**	640	550	**630**	850	450	**510**	800	600	**700**	920	–	–	–
	4	–	–	–	250	**360**	550	200	**290**	440	300	**480**	650	250	**360**	600	330	**530**	710	–	–	–
	5	–	–	–	400	**660**	850	320	**530**	680	500	**720**	1000	400	**650**	875	550	**800**	1100	–	–	–
	6	–	–	–	350	**500**	750	280	**400**	600	400	**600**	900	350	**500**	750	440	**660**	990	–	–	–
M	1	200	**300**	400	450	**700**	850	300	**550**	800	–	–	–	–	–	–	–	–	–	–	–	–
	2	150	**250**	350	400	**650**	800	300	**500**	800	–	–	–	–	–	–	–	–	–	–	–	–
	3	120	**220**	320	400	**600**	800	300	**450**	700	–	–	–	–	–	–	–	–	–	–	–	–
K	1	100	**250**	400	400	**600**	800	320	**480**	640	560	**800**	1440	455	**650**	1170	700	**1000**	1800	600	**2500**	3400
	2	75	**225**	350	300	**500**	700	240	**400**	560	400	**640**	1120	325	**520**	910	500	**800**	1400	900	**1200**	1650
	3	65	**190**	300	200	**350**	500	160	**280**	400	400	**560**	880	325	**455**	715	500	**700**	1100	–	–	–
N	1–2	500	**1200**	2000	500	**1800**	3200	400	**1440**	2560	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	400	**900**	1400	400	**1200**	2000	320	**960**	1600	–	–	–	–	–	–	–	–	–	–	–	–
	5	150	**300**	500	300	**550**	800	240	**440**	640	–	–	–	–	–	–	–	–	–	–	–	–
	6	120	**250**	500	400	**700**	1000	320	**560**	800	–	–	–	–	–	–	–	–	–	–	–	–
S	1	25	**100**	250	50	**180**	450	25	**125**	200	–	–	–	–	–	–	–	–	–	–	–	–
	2	25	**110**	250	50	**195**	450	25	**100**	250	–	–	–	–	–	–	–	–	–	–	–	–
	3	25	**125**	250	50	**225**	450	50	**125**	250	–	–	–	–	–	–	–	–	–	–	–	–
	4	25	**150**	250	50	**225**	550	25	**175**	350	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	100	**150**	200	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	50	**100**	150	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Material Group		KT315			KB5625			KB1630			KD1405		
P	0–1	600	**1450**	1600	–	–	–	–	–	–	–	–	–
	2	650	**880**	1300	–	–	–	–	–	–	–	–	–
	3	600	**680**	900	–	–	–	–	–	–	–	–	–
	4	300	**530**	725	–	–	–	–	–	–	–	–	–
	5	500	**800**	1025	–	–	–	–	–	–	–	–	–
	6	475	**660**	975	–	–	–	–	–	–	–	–	–
M	1	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–
K	1	200	**900**	1800	–	–	–	600	**2500**	3400	–	–	–
	2	450	**900**	1200	–	–	–	–	–	–	–	–	–
	3	600	**750**	1200	–	–	–	–	–	–	–	–	–
N	1–2	–	–	–	–	–	–	–	–	–	1200	**2000**	3400
	3	–	–	–	–	–	–	–	–	–	900	**1600**	2600
	4	–	–	–	–	–	–	–	–	–	1000	**1800**	3000
	5	–	–	–	–	–	–	–	–	–	900	**2000**	3500
	6	–	–	–	–	–	–	–	–	–	500	**1500**	2500
S	1	–	–	–	–	–	–	400	**650**	900	–	–	–
	2	–	–	–	–	–	–	400	**700**	900	–	–	–
	3	–	–	–	–	–	–	400	**810**	900	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	150	**500**	760	150	**400**	560	–	–	–
	2	–	–	–	150	**460**	760	150	**360**	560	–	–	–
	3	–	–	–	150	**430**	760	150	**330**	560	–	–	–
	4	–	–	–	150	**400**	760	150	**300**	560	–	–	–

NOTE: FIRST choice starting speeds are in **bold** type.
As the average chip thickness increases, the speed should be decreased.

NOVO KNOWS SEARCH

Searching for a tool has been enhanced by Advise and Select functions from NOVO™ applications — saving you time and money.

ADVISE

Uses a rules-based approach to provide cutting tool recommendations:

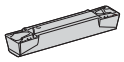
- Define Machining Feature (face milling, slotting, blind hole, etc.)
- Apply Constraint Requirements (geometric, material, tolerance, etc.)
- Set Machining Sequence (single or multi-step operations, rough then finish, etc.)
- Receive Ranked Results

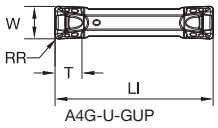
SELECT

A method of selecting cutting tools from a tree structure via a hierarchy or parametric search:

- If you know which product you are looking for, a quick search can be performed by just the catalog number or product description.
- Smart filters significantly reduce the amount of potential tooling solutions.
- After the tool is selected, NOVO also provides cutting and adaptive item options that fit with your solution.

NOVO applications can ensure you have the right tools on your machines, in the right sequence. Resulting in flawless execution that accelerates every job, and maximizes every shift. **kennametal.com/novo**





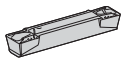
A4G-U-GUP

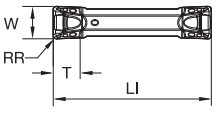
● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GUP Precision Molded

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M02U02GUP	2	2,05	.081	0,2	.008	20	.79	2,0	.079	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0305M03U02GUP	3	3,05	.120	0,2	.008	20	.79	3,0	.118	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0305M03U04GUP	3	3,05	.120	0,4	.016	20	.79	3,0	.118	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0405M04U04GUP	4	4,05	.159	0,4	.016	20	.79	3,4	.134	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0405M04U08GUP	4	4,05	.159	0,8	.031	20	.79	3,4	.134	●	●	●	●	–	–	–	–	–	–	–	–	–
A4R0405M04U00GUP	4	4,05	.159	—	—	20	.79	—	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M05U04GUP	5	5,05	.199	0,4	.016	25	.99	4,2	.165	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0505M05U08GUP	5	5,05	.199	0,8	.031	25	.99	4,2	.165	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0605M06U04GUP	6	6,05	.238	0,4	.016	30	1.19	4,5	.177	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0605M06U08GUP	6	6,05	.238	0,8	.031	30	1.19	4,5	.177	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0605M06U12GUP	6	6,05	.238	1,2	.047	30	1.19	4,5	.177	●	●	●	●	–	–	–	–	–	–	–	–	–
A4R0605M06U00GUP	6	6,05	.238	—	—	30	1.19	4,9	.193	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0805M08U08GUP	8	8,05	.317	0,8	.031	30	1.19	6,0	.236	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0805M08U12GUP	8	8,05	.317	1,2	.047	30	1.19	6,0	.236	●	●	●	●	–	–	–	–	–	–	–	–	–
A4R0805M08U00GUP	8	8,05	.317	—	—	30	1.19	6,5	.256	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G1005M10U08GUP	10	10,05	.396	0,8	.031	30	1.19	6,0	.236	●	●	●	–	–	–	–	–	–	–	–	–	–
A4G1005M10U12GUP	10	10,05	.396	1,2	.047	30	1.19	6,1	.238	–	●	–	●	–	–	–	–	–	–	–	–	–





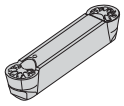
A4G-P-GUP

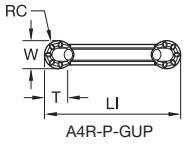
● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GUP Precision Ground

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0200M02P02GUP	2	2,00	.079	0,2	.008	20	.79	1,9	.075	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G094I2BP05GUP	2B	2,38	.094	0,2	.008	20	.79	1,9	.075	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M03P02GUP	3	3,00	.118	0,2	.008	20	.79	2,9	.115	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M03P04GUP	3	3,00	.118	0,4	.016	20	.79	2,9	.115	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G125I03P05GUP	3	3,18	.125	0,2	.008	20	.79	2,9	.115	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G125I03P1GUP	3	3,18	.125	0,4	.016	20	.79	2,9	.115	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M04P02GUP	4	4,00	.157	0,2	.008	20	.79	3,3	.130	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M04P04GUP	4	4,00	.157	0,4	.016	20	.79	3,3	.130	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M04P08GUP	4	4,00	.157	0,8	.031	20	.79	3,3	.130	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G187I04P1GUP	4	4,76	.187	0,4	.016	20	.79	3,3	.130	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0500M05P04GUP	5	5,00	.197	0,4	.016	25	.98	4,1	.163	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0500M05P08GUP	5	5,00	.197	0,8	.031	25	.98	4,1	.163	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0600M06P04GUP	6	6,00	.236	0,4	.016	30	1.18	4,5	.176	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0600M06P08GUP	6	6,00	.236	0,8	.031	30	1.18	4,5	.176	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G250I06P1GUP	6	6,35	.250	0,4	.016	30	1.18	4,4	.175	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G250I06P2GUP	6	6,35	.250	0,8	.031	30	1.18	4,4	.175	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G312I08P1GUP	8	7,94	.312	0,4	.016	30	1.18	5,9	.233	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0800M08P08GUP	8	8,00	.315	0,8	.031	30	1.18	6,0	.235	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0800M08P12GUP	8	8,00	.315	1,2	.047	30	1.18	6,0	.236	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G375I10P1GUP	10	9,53	.375	0,4	.016	30	1.18	5,9	.233	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G1000M10P08GUP	10	10,00	.394	0,8	.031	30	1.18	6,0	.235	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G1000M10P12GUP	10	10,00	.394	1,2	.047	30	1.18	6,0	.235	●	●	–	–	–	–	–	–	–	–	–	–	–





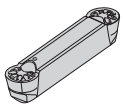
A4R-P-GUP

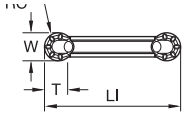
● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GUP Full Radius Precision Molded

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0305M03U00GUP	3	3,05	.120	1,5	.060	20	.79	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R0505M05U00GUP	5	5,05	.199	2,5	.099	25	.99	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R1005M10U00GUP	10	10,05	.396	5,0	.198	30	1.19	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–

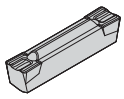


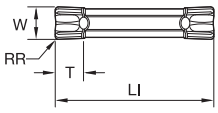


A4R-P-GUP

GUP Full Radius Precision Ground

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0300M03P00GUP	3	3,00	.118	1,5	.059	20	.79	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R125I03P00GUP	3	3,18	.125	1,6	.063	20	.79	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R0400M04P00GUP	4	4,00	.157	2,0	.079	20	.79	—	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R187I04P00GUP	4	4,76	.188	2,4	.094	20	.79	—	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0500M05P00GUP	5	5,00	.197	2,5	.098	25	.98	—	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0600M06P00GUP	6	6,00	.236	3,0	.118	30	1.18	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R250I06P00GUP	6	6,35	.250	3,2	.125	30	1.18	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R312I08P00GUP	8	7,94	.312	4,0	.156	30	1.18	—	—	●	–	–	–	–	–	–	–	–	–	–	–	–
A4R0800M08P00GUP	8	8,00	.315	4,0	.158	30	1.18	—	—	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R1000M10P00GUP	10	10,00	.394	5,0	.197	30	1.18	—	—	●	●	–	–	–	–	–	–	–	–	–	–	–





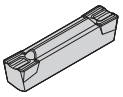
A4G-U-GMP

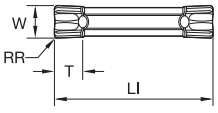
● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GMP Precision Molded

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M02U02GMP	2	2,05	.081	0,2	.008	20	.79	2,0	.079	–	●	–	–	–	–	●	●	–	–	–	–	–
A4G0255M2BU02GMP	2B	2,62	.103	0,2	.008	20	.79	2,0	.079	–	●	–	–	–	–	–	●	–	–	–	–	–
A4G0305M03U02GMP	3	3,05	.120	0,2	.008	20	.79	3,5	.138	●	●	–	–	–	–	●	●	–	●	–	–	–
A4G0305M03U04GMP	3	3,05	.120	0,4	.016	20	.79	3,5	.138	●	●	–	–	–	–	●	●	–	●	–	–	–
A4G0405M04U04GMP	4	4,05	.159	0,4	.015	20	.79	3,4	.134	●	●	●	●	–	–	●	●	–	●	–	–	–
A4G0405M04U08GMP	4	4,05	.159	0,8	.031	20	.79	3,4	.134	–	●	–	–	–	–	●	●	–	●	–	–	–
A4G0505M05U04GMP	5	5,05	.199	0,4	.015	25	.99	4,2	.165	●	●	●	–	–	–	●	●	–	–	–	–	–
A4G0505M05U08GMP	5	5,05	.199	0,8	.032	25	.99	4,2	.165	–	●	●	–	–	–	●	●	–	–	–	–	–
A4G0605M06U04GMP	6	6,05	.238	0,4	.016	30	1.19	4,9	.193	–	–	–	●	–	–	●	●	–	–	–	–	–
A4G0605M06U08GMP	6	6,05	.238	0,8	.031	30	1.19	4,9	.193	–	–	–	–	–	–	●	●	–	–	–	–	–
A4G0805M08U08GMP	8	8,05	.317	0,8	.031	30	1.19	6,1	.241	–	●	–	–	–	–	–	●	–	–	–	–	–
A4G1005M10U08GMP	10	10,05	.396	0,8	.031	30	1.19	8,1	.319	●	●	–	–	–	–	–	–	–	–	–	–	–

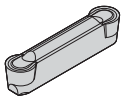


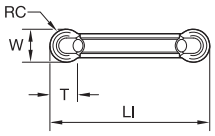


A4G-P-GMP

GMP Precision Ground

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0200M02P02GMP	2	2,00	.079	0,2	.008	20	.78	2,0	.079	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G0250M2BP02GMP	2B	2,50	.098	0,2	.008	20	.78	2,0	.079	●	–	–	–	–	–	●	–	–	–	–	–	–
A4G0300M03P02GMP	3	3,00	.118	0,2	.008	20	.78	3,5	.138	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0300M03P04GMP	3	3,00	.118	0,4	.016	20	.78	3,5	.138	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0400M04P02GMP	4	4,00	.158	0,2	.008	20	.78	–	–	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0400M04P04GMP	4	4,00	.158	0,4	.016	20	.78	3,5	.138	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0400M04P08GMP	4	4,00	.158	0,8	.032	20	.78	3,5	.138	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G0500M05P04GMP	5	5,00	.197	0,4	.016	25	.98	–	–	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0500M05P08GMP	5	5,00	.197	0,8	.032	25	.98	–	–	●	–	–	–	–	●	●	●	–	–	–	–	–
A4G0600M06P04GMP	6	6,00	.236	0,4	.016	30	1.18	4,9	.192	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G0600M06P08GMP	6	6,00	.236	0,8	.031	30	1.18	4,9	.192	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G0800M08P08GMP	8	8,00	.315	0,8	.031	30	1.18	6,4	.251	–	●	–	–	–	–	●	–	–	–	–	–	–
A4G0800M08P12GMP	8	8,00	.315	1,2	.047	30	1.18	6,4	.251	●	–	–	–	–	–	–	–	–	–	–	–	–





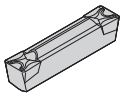
A4R-P-GMP

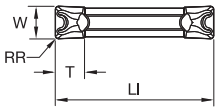
● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GMP Full Radius Precision Ground

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0200M02P00GMP	2	2,00	.079	1,0	.039	20	.78	1,7	.065	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R0300M03P00GMP	3	3,00	.118	1,5	.059	20	.78	2,5	.098	●	●	–	–	–	●	●	●	–	–	–	–	–
A4R0400M04P00GMP	4	4,00	.157	2,0	.079	20	.78	—	—	●	●	–	–	–	●	●	●	–	–	–	–	–
A4R0500M05P00GMP	5	5,00	.197	2,5	.098	25	.98	4,1	.160	●	●	–	–	–	●	●	●	–	–	–	–	–
A4R0600M06P00GMP	6	6,00	.236	3,0	.118	30	1.18	4,8	.189	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R0800M08P00GMP	8	8,00	.315	4,0	.158	30	1.18	6,4	.252	●	●	–	–	–	–	●	–	–	–	–	–	–

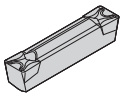


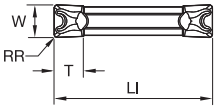


A4G-U-GMN

GMN Precision Molded

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M02U02GMN	2	2,05	.081	0,2	.008	20	.79	2,0	.079	●	●	●	–	–	–	●	●	–	–	–	–	–
A4G0255M2BU02GMN	2B	2,62	.103	0,2	.008	20	.79	2,0	.079	–	–	–	–	–	–	–	●	–	–	–	–	–
A4G0305M03U02GMN	3	3,05	.120	0,2	.008	20	.79	3,5	.138	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0305M03U04GMN	3	3,05	.120	0,4	.016	20	.79	3,5	.138	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0405M04U04GMN	4	4,05	.159	0,4	.016	20	.79	3,4	.134	●	●	–	●	–	–	●	●	–	–	–	–	–
A4G0405M04U08GMN	4	4,05	.159	0,8	.031	20	.79	3,4	.134	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0505M05U04GMN	5	5,05	.199	0,4	.016	25	.98	4,2	.165	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0505M05U08GMN	5	5,05	.199	0,8	.031	25	.98	4,2	.165	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0605M06U04GMN	6	6,05	.238	0,4	.016	30	1.18	4,9	.193	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0605M06U08GMN	6	6,05	.238	0,8	.031	30	1.18	4,9	.193	●	●	●	●	–	–	●	●	–	●	–	–	–
A4G0605M06U12GMN	6	6,05	.238	1,2	.047	30	1.18	4,9	.193	–	–	–	●	–	–	●	●	–	–	–	–	–
A4G0805M08U08GMN	8	8,05	.317	0,8	.031	30	1.18	6,4	.252	●	●	●	●	–	–	●	–	–	–	–	–	–
A4G0805M08U12GMN	8	8,05	.317	1,2	.047	30	1.18	6,4	.252	–	●	●	●	–	–	●	–	–	–	–	–	–
A4G1005M10U08GMN	10	10,05	.396	0,8	.031	30	1.18	8,1	.319	–	●	●	●	–	–	–	●	–	–	–	–	–
A4G1005M10U12GMN	10	10,05	.396	1,2	.047	30	1.18	8,1	.319	–	–	–	●	–	–	–	●	–	–	–	–	–





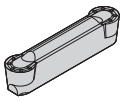
A4G-P-GMN

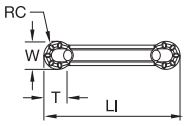
● first choice
○ alternate choice

P		●	●	●	●	○		○	○		●										
M		●	●				○	●	○												
K		○	○	○	○	●	○	○	○	●	○	○									
N		●	○				●	●	○												●
S		●	●				●	○	○												
H		○						○													

GMN Precision Ground

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G094I2BP05GMN	2B	2,39	.094	0,2	.008	20	.79	1,9	.075	●	–	–	–	–	–	●	–	–	–	–	–	–
A4G125I03P05GMN	3	3,18	.125	0,2	.008	20	.79	3,4	.134	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G125I03P1GMN	3	3,18	.125	0,4	.016	20	.79	3,4	.134	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G187I04P1GMN	4	4,76	.187	0,4	.016	20	.79	3,5	.138	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G187I04P2GMN	4	4,76	.187	0,8	.031	20	.79	3,5	.138	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G250I06P1GMN	6	6,35	.250	0,4	.016	30	1.18	4,7	.187	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G250I06P2GMN	6	6,35	.250	0,8	.031	30	1.18	4,7	.187	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G312I08P1GMN	8	7,94	.312	0,4	.016	30	1.18	6,2	.246	–	●	–	–	–	–	●	–	–	–	–	–	–
A4G375I10P1GMN	10	9,53	.375	0,4	.016	30	1.18	7,9	.312	–	–	–	–	–	–	●	–	–	–	–	–	–
A4G375I10P2GMN	10	9,53	.375	0,8	.031	30	1.18	7,9	.313	●	–	–	–	–	–	●	–	–	–	–	–	–

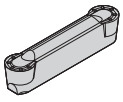


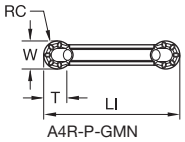


A4R-U-GMN

GMN Full Radius Precision Molded

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0205M02U00GMN	2	2,05	.081	1,1	.042	20	.79	1,8	.069	–	●	●	–	–	–	●	●	–	–	–	–	–
A4R0305M03U00GMN	3	3,05	.120	1,5	.060	20	.79	2,6	.101	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0405M04U00GMN	4	4,05	.159	2,0	.080	20	.79	3,5	.136	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0505M05U00GMN	5	5,05	.199	2,5	.099	25	.99	4,2	.163	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0605M06U00GMN	6	6,05	.238	3,0	.119	30	1.19	4,9	.194	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0805M08U00GMN	8	8,05	.317	4,0	.159	30	1.19	6,5	.256	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R1005M10U00GMN	10	10,05	.396	5,0	.198	30	1.19	8,2	.322	●	●	–	●	–	–	–	–	–	–	–	–	–

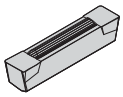


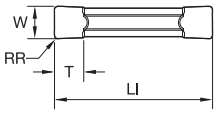


A4R-P-GMN

GMN Full Radius Precision Ground

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R125I03P00GMN	3	3,18	.125	1,6	.063	20	.79	2,7	.108	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R187I04P00GMN	4	4,76	.187	2,4	.094	20	.79	3,8	.149	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R250I06P00GMN	6	6,35	.250	3,2	.125	30	1.18	5,3	.208	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R312I08P00GMN	8	7,94	.313	4,0	.157	30	1.18	6,4	.254	●	–	–	–	–	–	–	–	–	–	–	–	–
A4R375I10P00GMN	10	9,53	.375	4,8	.188	30	1.18	7,3	.289	–	–	–	–	–	–	–	●	–	–	–	–	–





A4G-U-B

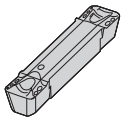
● first choice
○ alternate choice

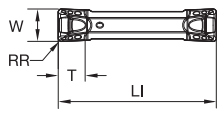
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

Flat Top Precision Molded

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0305M03U02B	3	3,05	.120	0,2	.008	20	.79	3,5	.138	–	●	–	–	●	–	–	●	–	–	–	–	–
A4G0405M04U04B	4	4,05	.159	0,4	.015	20	.79	3,4	.134	–	–	–	–	●	–	–	●	–	–	–	–	–
A4G0505M05U04B	5	5,05	.199	0,4	.015	25	.98	4,2	.165	–	●	–	–	●	–	–	–	–	–	–	–	–
A4G0605M06U04B	6	6,05	.238	0,4	.016	30	1.18	4,9	.193	–	●	–	–	●	–	–	–	–	–	–	–	–
A4G0805M08U08B	8	8,05	.317	0,8	.031	30	1.18	6,4	.252	–	–	–	–	●	–	–	–	–	–	–	–	–
A4G1005M10U08B	10	10,05	.396	0,8	.031	30	1.18	8,1	.319	–	–	–	–	●	–	–	–	–	–	–	–	–

A4™ Groove and Turn Inserts • Small Diameter Face Grooving





A4G-SP-GUP

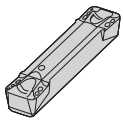
● first choice
○ alternate choice

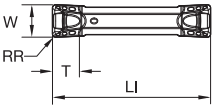
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GUP Precision Molded • Small Diameter Face Grooving

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0200M2SP02GUP	2S	2,00	.079	0,2	.008	20	.79	1,9	.075	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M3SP02GUP	3S	3,00	.118	0,2	.008	20	.79	2,9	.115	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M3SP04GUP	3S	3,00	.118	0,4	.016	20	.79	2,9	.115	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M4SP04GUP	4S	4,00	.157	0,4	.016	20	.79	3,4	.132	●	–	–	–	–	–	–	–	–	–	–	–	–
A4G0400M4SP08GUP	4S	4,00	.157	0,8	.031	20	.79	3,4	.132	●	–	–	–	–	–	–	–	–	–	–	–	–
A4G0500M5SP04GUP	5S	5,00	.197	0,4	.016	25	.98	4,1	.163	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0500M5SP08GUP	5S	5,00	.197	0,8	.032	25	.98	4,1	.162	●	–	–	–	–	–	–	–	–	–	–	–	–

NOTE: A4-S inserts are reduced-height A4 inserts. For example, a 2S seat size holder will not accept a seat size 2 insert.





A4G-SU-GUP

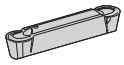
● first choice
○ alternate choice

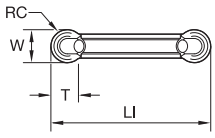
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GUP Precision Ground • Small Diameter Face Grooving

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M2SU02GUP	2S	2,05	.081	0,2	.008	20	.79	2,0	.079	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU02GUP	3S	3,05	.120	0,2	.008	20	.79	3,0	.118	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU04GUP	3S	3,05	.120	0,4	.016	20	.79	3,0	.118	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0405M4SU04GUP	4S	4,05	.159	0,4	.016	20	.79	3,4	.134	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M5SU04GUP	5S	5,05	.199	0,4	.016	25	.99	4,2	.165	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M5SU08GUP	5S	5,05	.199	0,8	.031	25	.99	4,2	.165	–	●	–	–	–	–	–	–	–	–	–	–	–

NOTE: A4-S inserts are reduced-height A4 inserts. For example, a 2S seat size holder will not accept a seat size 2 insert.



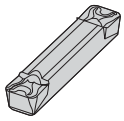


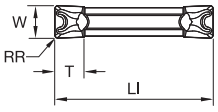
A4R-SP-GMP

GMP Full Radius Precision Ground • Small Diameter Face Grooving

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0200M2SP00GMP	2S	2,00	.079	1,0	.039	20	.78	1,6	.064	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0300M3SP00GMP	3S	3,00	.118	1,5	.059	20	.78	2,5	.098	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0500M5SP00GMP	5S	5,00	.197	2,5	.098	25	.98	4,1	.159	–	●	–	–	–	–	–	–	–	–	–	–	–

NOTE: A4-S inserts are reduced-height A4 inserts. For example, a 2S seat size holder will not accept a seat size 2 insert.



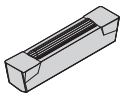


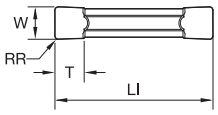
A4G-SU-GMN

GMN Precision Molded • Small Diameter Face Grooving

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M2SU02GMN	2S	2,05	.081	0,2	.008	20	.79	2,0	.079	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU02GMN	3S	3,05	.120	0,2	.008	20	.79	3,5	.138	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU04GMN	3S	3,05	.120	0,4	.016	20	.79	3,5	.138	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0405M4SU04GMN	4S	4,05	.159	0,4	.016	20	.79	3,6	.143	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0405M4SU08GMN	4S	4,05	.159	0,8	.031	20	.79	3,6	.143	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M5SU04GMN	5S	5,05	.199	0,4	.016	25	.98	4,2	.165	●	●	–	–	–	–	–	–	–	–	–	–	–

NOTE: A4-S inserts are reduced-height A4 inserts. For example, a 2S seat size holder will not accept a seat size 2 insert.





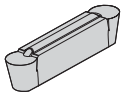
A4G-P-T

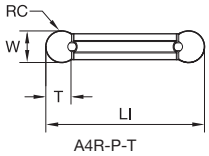
● first choice
○ alternate choice

P		
M		
K		●
N		
S		
H		

Flat Top Precision Ground • Ceramic

ISO catalog number	ANSI catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KY3500
A4G0300M03P04T01025	A4G0300M03P04T01025	3	3,00	.118	0,4	.016	20	.79	3,4	.134	●
A4G125I03P1T0425	A4G125I03P1T0425	3	3,18	.125	0,4	.016	20	.79	3,4	.134	●
A4G0400M04P04T01025	A4G0400M04P04T01025	4	4,00	.157	0,4	.016	20	.79	3,4	.134	●
A4G0500M05P08T01025	A4G0500M05P08T01025	5	5,00	.197	0,8	.031	25	.98	4,2	.165	●
A4G0600M06P08T01025	A4G0600M06P08T01025	6	6,00	.236	0,8	.031	30	1.18	4,8	.189	●
A4G250I06P2T0425	A4G250I06P2T0425	6	6,35	.250	0,8	.031	30	1.18	4,9	.193	●
A4G0800M08P08T01025	A4G0800M08P08T01025	8	8,00	.315	0,8	.031	30	1.18	6,4	.250	●

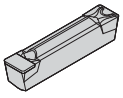


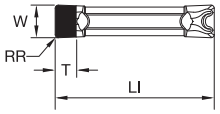


A4R-P-T

Flat Top Full Radius Precision Ground • Ceramic

ISO catalog number	ANSI catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KY3500
A4R0300M03P00T01025	A4R0300M03P00T01025	3	3,00	.118	1,5	.059	20	.79	2,4	.095	●
A4R0500M05P00T01025	A4R0500M05P00T01025	5	5,00	.197	2,5	.098	25	.98	4,1	.163	●
A4R0600M06P00T01025	A4R0600M06P00T01025	6	6,00	.236	3,0	.118	30	1.18	4,3	.167	●
A4R250I06P00T0425	A4R250I06P00T0425	6	6,35	.250	3,2	.125	30	1.18	4,8	.191	●
A4R0800M08P00T01025	A4R0800M08P00T01025	8	8,00	.315	4,0	.157	30	1.18	6,4	.250	●





A4G-P-E

● first choice
○ alternate choice

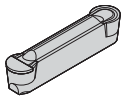
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

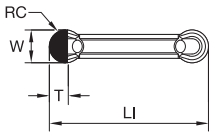
Flat Top Precision Ground • PCD

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04E	3	3,00	.118	0,4	.016	20	.79	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0400M04P04E	4	4,00	.158	0,4	.016	20	.79	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0500M05P08E	5	5,00	.197	0,8	.031	25	.98	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●

● first choice
○ alternate choice

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

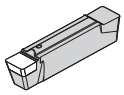


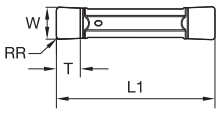


A4R-P-E

Flat Top Full Radius Precision Ground • PCD

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0500M05P00E	5	5,00	.197	2,5	.099	25	.98	3,0	.118	–	–	–	–	–	–	–	–	–	–	–	–	●

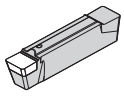


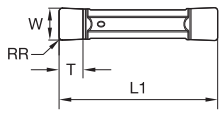


A4G-P-E-ST

Flat Top Precision Ground • PcBN

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04EST	3	3,00	.118	0,4	.016	20	.78	3,0	.118	–	–	–	–	–	–	–	–	–	–	●	–	–
A4G0500M05P08EST	5	5,00	.197	0,8	.031	25	.98	3,5	.138	–	–	–	–	–	–	–	–	–	–	●	–	–
A4G0600M06P08EST	6	6,00	.236	0,8	.031	30	1.18	4,0	.157	–	–	–	–	–	–	–	–	–	–	●	–	–

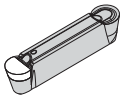


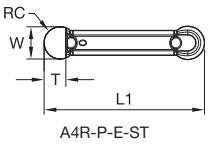


A4G-P-S-ST

Flat Top Precision Ground • T Land • PcBN

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04S02025ST	3	3,00	.118	0,4	.016	20	.78	3,0	.118	–	–	–	–	–	–	–	–	–	–	●	●	–
A4G0400M04P04S02025ST	4	4,00	.157	0,4	.016	20	.78	3,3	.130	–	–	–	–	–	–	–	–	–	–	●	●	–
A4G0500M05P08S02025ST	5	5,00	.197	0,8	.031	25	.98	3,5	.138	–	–	–	–	–	–	–	–	–	–	–	●	–
A4G0600M06P08S02025ST	6	6,00	.236	0,8	.031	30	1.18	4,0	.157	–	–	–	–	–	–	–	–	–	–	–	●	–





A4R-P-E-ST

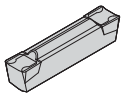
● first choice
○ alternate choice

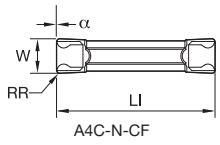
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

Flat Top Full Radius Precision Ground • PcBN

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	T mm	T in	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0300M03P00EST	3	3,00	.118	1,5	.059	20	.78	2,2	.087	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0400M04P00EST	4	4,00	.157	2,0	.079	20	.78	2,9	.114	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0500M05P00EST	5	5,00	.197	2,5	.099	25	.98	3,7	.146	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0600M06P00EST	6	6,00	.236	3,0	.118	30	1.18	4,4	.173	–	–	–	–	–	–	–	–	–	–	●	–	–

A4™ Cut-off Inserts





A4C-N-CF

● first choice
○ alternate choice

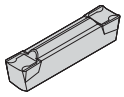
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

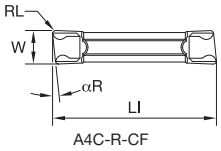
CF Precision Molded • Neutral

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	α	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4C0155N00CF01	1	1,50	.059	0,2	.006	16	.61	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0205N00CF02	2	2,05	.081	0,2	.008	20	.79	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0255N00CF02	2B	2,50	.098	0,2	.008	20	.79	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0305N00CF02	3	3,05	.120	0,2	.008	20	.79	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0405N00CF02	4	4,05	.159	0,2	.008	20	.79	–	–	●	–	–	–	–	–	●	–	–	–	–	–

● first choice
○ alternate choice

P	●	●	●	●	○		○	○		●						
M	●	●				○	●	○								
K	○	○	○	○	●	○	○	○	●	○	○					
N	●	○				●	●	○								●
S	●	●				●	○	○			○					
H	○						○				●	●				

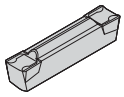


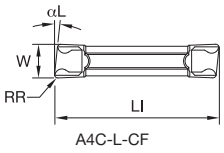


A4C-R-CF

CF Precision Molded • Right Hand

catalog number	seat size	W mm	W in	RL mm	RL in	LI mm	LI in	αR	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4C0155R06CF01	1	1,50	.059	0,2	.006	16	.61	6.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0155R10CF01	1	1,50	.059	0,2	.006	16	.61	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0155R16CF01	1	1,50	.059	0,2	.006	16	.61	16.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0205R06CF02	2	1,99	.078	0,2	.008	20	.79	6.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0205R10CF02	2	1,99	.078	0,2	.008	20	.79	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0255R06CF02	2B	2,49	.098	0,2	.008	20	.79	6.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0305R06CF02	3	3,05	.120	0,2	.008	20	.79	6.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0305R10CF02	3	3,05	.120	0,2	.008	20	.79	10.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0405R06CF02	4	4,05	.159	0,2	.008	20	.79	6.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0405R10CF02	4	4,05	.159	0,2	.008	20	.79	10.0	–	●	–	–	–	–	–	●	–	–	–	–	–





A4C-L-CF

CF Precision Molded • Left Hand

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	αL	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4C0155L06CF01	1	1,50	.059	0,2	.006	16	.61	6.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0205L06CF02	2	1,99	.078	0,2	.008	20	.79	6.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0205L10CF02	2	1,99	.078	0,2	.008	20	.79	10.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0305L06CF02	3	3,05	.120	0,2	.008	20	.79	6.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0305L10CF02	3	3,05	.120	0,2	.008	20	.79	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0405L06CF02	4	4,05	.159	0,2	.008	20	.79	6.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0405L10CF02	4	4,05	.159	0,2	.008	20	.79	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–

How Do Catalog Numbers Work?

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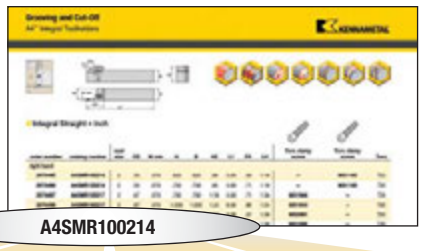
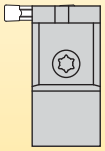
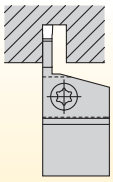


A4SMR100214

A4	S	M	R	10	02	14
Tooling System	Tool Style	Support Type	Hand of Tool	Shank Size	Seat Size	Max Grooving Depth
A4 = Grooving and Turning	**S** = Straight  **E** = End mounted 90°		 **R** = Right hand **L** = Left hand **N** = Neutral		**02** **03** **04** **05** **06** **08** **10**	in millimeters

M =

Maximum support for specific groove widths and straight clearance for unlimited workpiece diameters

E =

No steel support for face grooving

C =

Reinforced Support

inch:
For square shanks, the number indicates the height and width in 1/16-inch increments (rectangular: 1st digit = width in 1/8-inch increments, 2nd digit = height in 1/4-inch increments)

metric:
Height x width in mm, letter indicates tool length according to ISO

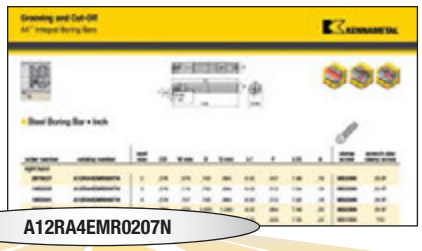
metric tool length (mm)

K = 125

M = 150

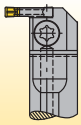
P = 170

By referencing this easy-to-use guide, you can identify the correct product to meet your needs.

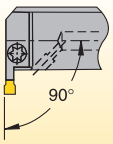


A12RA4EMR0207N

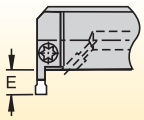
A	12	R	A4	E	M	R	02	07	N
Steel Bar with Coolant	Bar Diameter	Bar Length	A4™ Groove and Turn System	Tool Style	Support Type	Hand of Tool	Insert Seat Size	Grooving Depth in mm	Tool Units



N = Inch
M = Metric

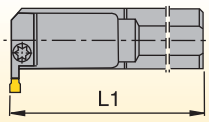


E = End mounted (90°)



conversions:

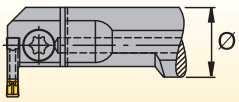
mm	inch
7mm	.28"
10mm	.39"
12mm	.47"
16mm	.63"



inch bars:
R = 8"
S = 10"
T = 12"

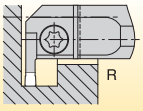
metric bars:
R = 200mm
S = 150mm
T = 300mm

pocket seat size	cutting width (mm)
02	2,00–2,62
2B	2,39–2,62
03	3,0–3,05
04	4,0–4,05
05	5,0–5,05
06	6,0–6,05
08	8,0–8,05
10	10,0–10,05

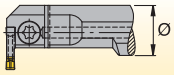


inch bars:
A two-digit number which indicates the bar diameter in 1/16" increments.

metric bars:
Bar diameter in millimeters



R = Right hand



L = Left hand

M = Maximum support

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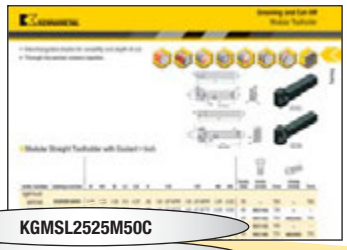

KGMSL2525M50C

KGMSL1650C

Metric

KGM	S	L	2525M	50	C

Inch

KGM	S	L	16	50	C

Family Name	Tool Style	Hand	Shank Size	Blade Size	Coolant
Grooving Modular System	**S** = Straight mount **E** = End mount (90°)	**L** = Left hand **R** = Right hand	**Metric** = Height x Width in mm letter indicates tool length according to ISO **Inch** = Height x Width in 1/16" increments	**50** **65**	**C** = Through coolant capable

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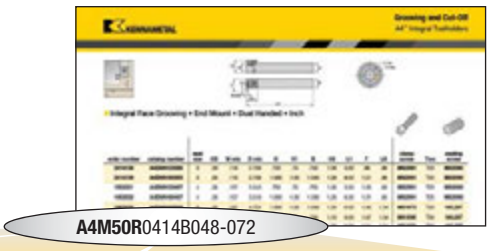
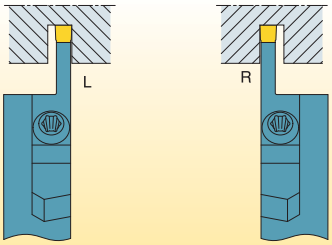


A4M50R0414B048-072

A4M	50	R
Family Name	Modular System Size	Hand of Tool
A4 Modular Blade	**50** **65**	

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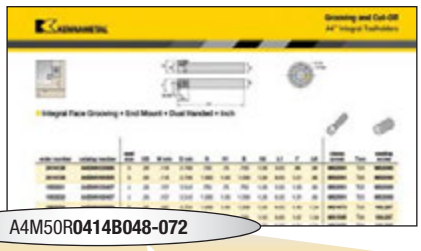


A4M50R**0414B048-072**

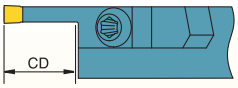
04

Seat Size

pocket seat size	cutting width in	cutting width mm
02	0.08–0.10	2,00–2,62
2B	0.09–0.10	2,39–2,62
03	0.12–0.12	3,0–3,05
04	0.16–0.16	4,0–4,05
05	0.20–0.20	5,0–5,05
06	0.24–0.24	6,0–6,05
08	0.31–0.32	8,0–8,05
10	0.39–0.40	10,0–10,05

14

Maximum Groove Depth

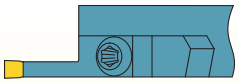


conversions:

mm	inch
14mm	.55"
19mm	.75"
20mm	.79"
26mm	1.02"

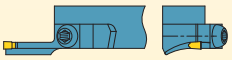
B

Tool Style



M = Maximum support for specific groove widths and straight clearance for unlimited workpiece diameters

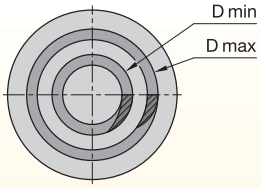
A = Inboard sweep face grooving toolholder



B = Outboard sweep face grooving toolholder

048-072

Face Grooving Diameter Range



diameters are min and max for outer face groove dia.
999 = unlimited D max

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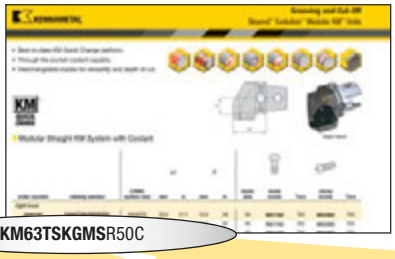
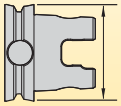
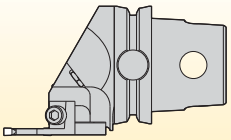


KM63TSKGMSR50C

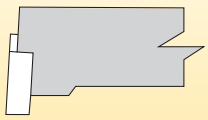
KM	63	TS	KGM	S
KM™ Quick-Change	System Size	Feature	Insert Holding Method	Insert Location
KM **KM4X™** **PSC**	**40** = 40mm **50** = 50mm **63** = 63mm **80** = 80mm **100** = 100mm	**TS** **XMZ**	**KGM**	**E** = End mount **S** = Side mount



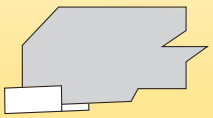


Modular Grooving

E



S



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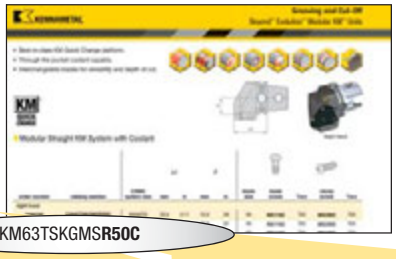
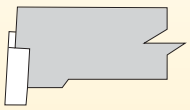


KM63TSKGMS**R50C**

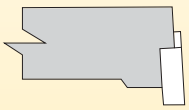
R	50	C	
Hand of Tool	Blade Size	Coolant	Special Features
R = Right hand **L** = Left hand	**50** **60**	**C** = Through the pocket coolant capable	**Y** = Mazak® INTEGREX®

End Mount

R

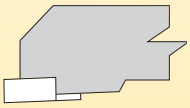


L

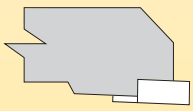


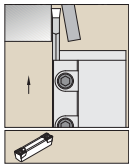
Side Mount

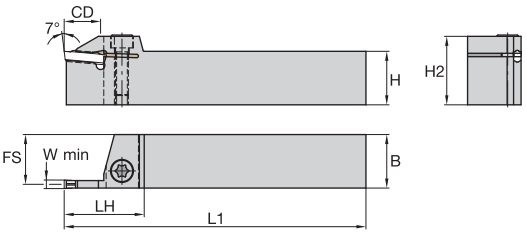
R



L







Right Hand

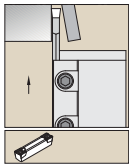
Integral Straight • Inch

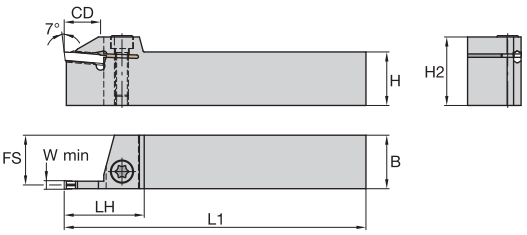
order number	catalog number	seat size	CD	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	Torx
right hand													
2976495	**A4SMR100214**	2	.55	.079	.625	.625	.98	5.00	.59	1.18	**–**	**MS1160**	T20
2976496	**A4SMR120214**	2	.55	.079	.750	.750	.95	5.00	.71	1.18	**–**	**MS1160**	T20
2976497	**A4SMR120217**	2	.67	.079	.750	.750	1.18	5.00	.71	1.34	**MS1944**	**–**	T25
2976498	**A4SMR160217**	2	.67	.079	1.000	1.000	1.24	6.00	.96	1.34	**MS1944**	**–**	T25
1953177	**A4SMR100314**	3	.55	.118	.625	.625	1.03	5.00	.57	1.38	**MS2091**	**–**	T25
1953179	**A4SMR120314**	3	.55	.118	.750	.750	1.06	5.00	.69	1.38	**MS1595**	**–**	T30
1953181	**A4SMR160317**	3	.67	.118	1.000	1.000	1.26	6.00	.94	1.46	**MS1970**	**–**	T30
1957224	**A4SMR100414**	4	.55	.157	.625	.625	1.03	5.00	.55	1.38	**MS2091**	**–**	T25
1953323	**A4SMR120414**	4	.55	.157	.750	.750	1.06	5.00	.67	1.38	**MS1595**	**–**	T30
1953325	**A4SMR160417**	4	.67	.157	1.000	1.000	1.26	6.00	.92	1.46	**MS1970**	**–**	T30
1957226	**A4SMR200417**	4	.67	.157	1.250	1.250	1.54	6.00	1.17	1.46	**MS1970**	**–**	T30
1953327	**A4SMR120519**	5	.75	.197	.750	.750	1.10	5.00	.65	1.57	**MS1595**	**–**	T30
1953329	**A4SMR160520**	5	.79	.197	1.000	1.000	1.30	6.00	.90	1.57	**MS1970**	**–**	T30
1957228	**A4SMR200522**	5	.87	.197	1.250	1.250	1.54	6.00	1.15	1.65	**MS1970**	**–**	T30
2263175	**A4SMR120620**	6	.79	.236	.750	.750	1.06	5.00	.64	1.57	**MS1595**	**–**	T30
2263176	**A4SMR160620**	6	.79	.236	1.000	1.000	1.30	6.00	.89	1.57	**MS1970**	**–**	T30
2263177	**A4SMR160624**	6	.94	.236	1.000	1.000	1.30	6.00	.89	1.69	**MS1970**	**–**	T30
2263178	**A4SMR200626**	6	1.02	.236	1.250	1.250	1.57	6.00	1.14	1.77	**MS1970**	**–**	T30
2263179	**A4SMR240626**	6	1.02	.236	1.500	1.500	1.81	7.00	1.39	1.77	**MS1970**	**–**	T30
2263185	**A4SMR160820**	8	.79	.315	1.000	1.000	1.34	6.00	.86	1.69	**MS1490**	**–**	T45
2263186	**A4SMR160824**	8	.94	.315	1.000	1.000	1.34	6.00	.86	1.81	**MS1490**	**–**	T45
2263187	**A4SMR200826**	8	1.02	.315	1.250	1.250	1.61	6.00	1.11	1.85	**MS1490**	**–**	T45
2263188	**A4SMR240826**	8	1.02	.315	1.500	1.500	1.85	7.00	1.36	1.85	**MS1490**	**–**	T45
2263193	**A4SMR201026**	10	1.02	.394	1.250	1.250	1.61	6.00	1.08	1.85	**MS1490**	**–**	T45

(continued)

(Integral Straight • Inch — continued)

order number	catalog number	seat size	CD	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	Torx
left hand													
2976491	**A4SML100214**	2	.55	.079	.625	.625	.98	5.00	.59	1.18	**—**	**MS1160**	T20
2976493	**A4SML120217**	2	.67	.079	.750	.750	1.18	5.00	.71	1.34	**MS1944**	**—**	T25
2976494	**A4SML160217**	2	.67	.079	1.000	1.000	1.24	6.00	.96	1.34	**MS1944**	**—**	T25
1953178	**A4SML100314**	3	.55	.118	.625	.625	1.03	5.00	.57	1.38	**MS2091**	**—**	T25
1953180	**A4SML120314**	3	.55	.118	.750	.750	1.06	5.00	.69	1.38	**MS1595**	**—**	T30
1953182	**A4SML160317**	3	.67	.118	1.000	1.000	1.26	6.00	.94	1.46	**MS1970**	**—**	T30
1953324	**A4SML120414**	4	.55	.157	.750	.750	1.06	5.00	.67	1.38	**MS1595**	**—**	T30
1953326	**A4SML160417**	4	.67	.157	1.000	1.000	1.26	6.00	.92	1.46	**MS1970**	**—**	T30
1957227	**A4SML200417**	4	.67	.157	1.250	1.250	1.54	6.00	1.17	1.46	**MS1970**	**—**	T30
1953328	**A4SML120519**	5	.75	.197	.750	.750	1.10	5.00	.65	1.57	**MS1595**	**—**	T30
1953330	**A4SML160520**	5	.79	.197	1.000	1.000	1.30	6.00	.90	1.57	**MS1970**	**—**	T30
1957229	**A4SML200522**	5	.87	.197	1.250	1.250	1.54	6.00	1.15	1.65	**MS1970**	**—**	T30
2263180	**A4SML120620**	6	.79	.236	.750	.750	1.06	5.00	.64	1.57	**MS1595**	**—**	T30
2263181	**A4SML160620**	6	.79	.236	1.000	1.000	1.30	6.00	.89	1.57	**MS1970**	**—**	T30
2263182	**A4SML160624**	6	.94	.236	1.000	1.000	1.30	6.00	.89	1.69	**MS1970**	**—**	T30
2263183	**A4SML200626**	6	1.02	.236	1.250	1.250	1.57	6.00	1.14	1.77	**MS1970**	**—**	T30
2263184	**A4SML240626**	6	1.02	.236	1.500	1.500	1.81	7.00	1.39	1.77	**MS1970**	**—**	T30
2263190	**A4SML160824**	8	.94	.315	1.000	1.000	1.34	6.00	.86	1.81	**MS1490**	**—**	T45
2263194	**A4SML201026**	10	1.02	.394	1.250	1.250	1.61	6.00	1.08	1.85	**MS1490**	**—**	T45





Right Hand

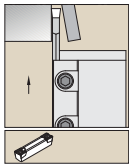
Integral Straight • Metric

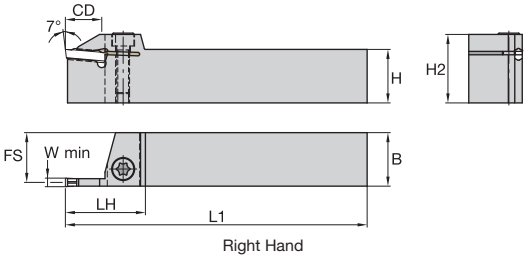
order number	catalog number	seat size	CD	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	Torx
right hand													
3017341	**A4SMR2020K0214**	2	14	–	20	20	25	125	19	30	–	**MS1160**	T20
3017342	**A4SMR1616K0214**	2	14	2	16	16	25	125	15	30	–	**MS1160**	T20
2974425	**A4SMR2020K0217**	2	17	2	20	20	31	125	19	34	**MS1944**	–	T25
3017340	**A4SMR2525M0214**	2	14	2	25	25	30	150	24	30	–	**MS1160**	T20
3017339	**A4SMR2525M0217**	2	17	2	25	25	31	150	24	34	**MS1944**	–	T25
1949633	**A4SMR1616K0314**	3	14	3	16	16	27	125	15	35	**MS2091**	–	T25
2503557	**A4SMR2016K0317**	3	17	3	20	16	32	125	15	37	**MS1970**	–	T30
1949635	**A4SMR2020K0314**	3	14	3	20	20	27	125	19	35	**MS1595**	–	T30
2503551	**A4SMR2020K0317**	3	17	3	20	20	32	125	19	37	**MS1970**	–	T30
1949637	**A4SMR2525M0317**	3	17	3	25	25	32	150	24	37	**MS1970**	–	T30
2503559	**A4SMR2016K0417**	4	17	4	20	16	32	125	14	37	**MS1970**	–	T30
1949639	**A4SMR2020K0414**	4	14	4	20	20	27	125	18	35	**MS1595**	–	T30
2503553	**A4SMR2020K0417**	4	17	4	20	20	32	125	18	37	**MS1970**	–	T30
1949641	**A4SMR2525M0417**	4	17	4	25	25	32	150	23	37	**MS1970**	–	T30
1949643	**A4SMR3225P0417**	4	17	4	32	25	40	170	23	37	**MS1970**	–	T30
1949645	**A4SMR2020K0519**	5	19	5	20	20	28	125	18	40	**MS1595**	–	T30
1949647	**A4SMR2525M0520**	5	20	5	25	25	33	150	23	40	**MS1970**	–	T30
1949649	**A4SMR3225P0522**	5	22	5	32	25	40	170	23	42	**MS1970**	–	T30
2503555	**A4SMR2020K0620**	6	20	6	20	20	33	125	17	40	**MS1970**	–	T30
2245484	**A4SMR2525M0620**	6	20	6	25	25	33	150	22	40	**MS1970**	–	T30
2263089	**A4SMR3225P0626**	6	26	6	32	25	40	170	22	45	**MS1970**	–	T30
2245485	**A4SMR2525M0820**	8	20	8	25	25	34	150	21	43	**MS1490**	–	T45
2263091	**A4SMR3225P0826**	8	26	8	32	25	41	170	21	47	**MS1490**	–	T45
2263173	**A4SMR3225P1026**	10	26	10	32	25	41	170	21	47	**MS1490**	–	T45

(continued)

(Integral Straight • Metric — continued)

order number	catalog number	seat size	CD	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	Torx
left hand													
3017336	**A4SML2020K0214**	2	14	—	20	20	25	125	19	30	**—**	**MS1160**	T20
3017338	**A4SML1616K0214**	2	14	2	16	16	25	125	15	30	**—**	**MS1160**	T20
3017337	**A4SML2020K0217**	2	17	2	20	20	31	125	19	34	**MS1944**	**—**	T25
3017335	**A4SML2525M0214**	2	14	2	25	25	30	150	24	30	**—**	**MS1160**	T20
3017334	**A4SML2525M0217**	2	17	2	25	25	31	150	24	34	**MS1944**	**—**	T25
1949634	**A4SML1616K0314**	3	14	3	16	16	27	125	15	35	**MS2091**	**—**	T25
2503556	**A4SML2016K0317**	3	17	3	20	16	32	125	15	37	**MS1970**	**—**	T30
1949636	**A4SML2020K0314**	3	14	3	20	20	27	125	19	35	**MS1595**	**—**	T30
2503550	**A4SML2020K0317**	3	17	3	20	20	32	125	19	37	**MS1970**	**—**	T30
1949638	**A4SML2525M0317**	3	17	3	25	25	32	150	24	37	**MS1970**	**—**	T30
1949640	**A4SML2020K0414**	4	14	4	20	20	27	125	18	35	**MS1595**	**—**	T30
2503552	**A4SML2020K0417**	4	17	4	20	20	32	125	18	37	**MS1970**	**—**	T30
1949642	**A4SML2525M0417**	4	17	4	25	25	32	150	23	37	**MS1970**	**—**	T30
1949644	**A4SML3225P0417**	4	17	4	32	25	40	170	23	37	**MS1970**	**—**	T30
1949646	**A4SML2020K0519**	5	19	5	20	20	28	125	18	40	**MS1595**	**—**	T30
1949648	**A4SML2525M0520**	5	20	5	25	25	33	150	23	40	**MS1970**	**—**	T30
1949650	**A4SML3225P0522**	5	22	5	32	25	40	170	23	42	**MS1970**	**—**	T30
2503554	**A4SML2020K0620**	6	20	6	20	20	33	125	17	40	**MS1970**	**—**	T30
2245486	**A4SML2525M0620**	6	20	6	25	25	33	150	22	40	**MS1970**	**—**	T30
2263090	**A4SML3225P0626**	6	26	6	32	25	40	170	22	45	**MS1970**	**—**	T30
2245487	**A4SML2525M0820**	8	20	8	25	25	34	150	21	43	**MS1490**	**—**	T45
2263092	**A4SML3225P0826**	8	26	8	32	25	41	170	21	47	**MS1490**	**—**	T45
2263174	**A4SML3225P1026**	10	26	10	32	25	41	170	21	47	**MS1490**	**—**	T45

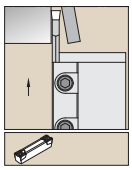


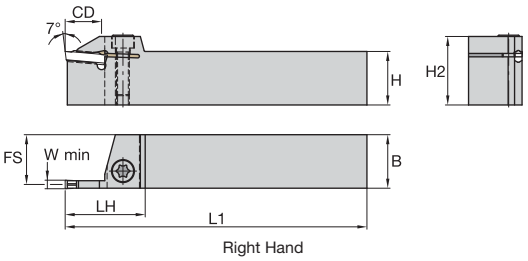


Right Hand

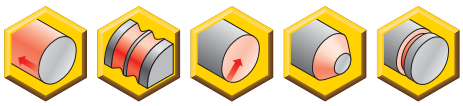
Integral Straight • Short Projection Toolholders • Inch

order number	catalog number	seat size	CD	W min	H	B	H2	L1	FS	LH	clamp screw	Torx
right hand												
3854277	**A4SMR120308**	3	.32	.118	.750	.750	1.01	5.00	.69	1.10	**MS1595**	T30
3854281	**A4SMR160510**	5	.39	.197	1.000	1.000	1.30	6.00	.91	1.26	**MS1970**	T30

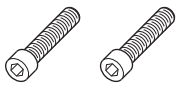




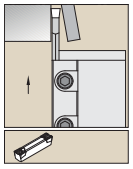
Right Hand

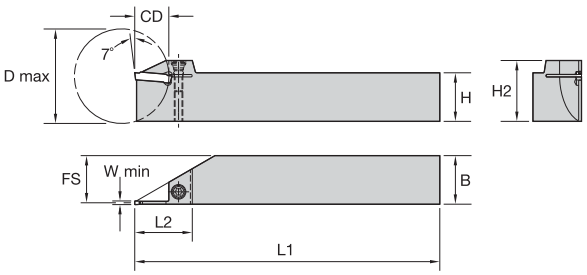


Integral Straight • Short Projection Toolholders • Metric



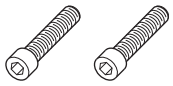
order number	catalog number	seat size	CD	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	Torx
right hand													
3854265	**A4SMR2020K0208**	2	8	2	20	20	24	125	19	26	–	**MS1160**	T20
3854267	**A4SMR2020K0308**	3	8	3	20	20	27	125	19	28	**MS1595**	–	T30
3854269	**A4SMR2020K0408**	4	8	4	20	20	27	125	18	28	**MS1595**	–	T30
3854271	**A4SMR2525M0510**	5	10	5	25	25	33	150	23	32	**MS1970**	–	T30
3854273	**A4SMR2525M0610**	6	10	6	25	25	33	150	22	37	**MS1970**	–	T30
left hand													
3854266	**A4SML2020K0208**	2	8	2	20	20	24	125	19	26	–	**MS1160**	T20
3854268	**A4SML2020K0308**	3	8	3	20	20	27	125	19	28	**MS1595**	–	T30
3854270	**A4SML2020K0408**	4	8	4	20	20	27	125	18	28	**MS1595**	–	T30
3854272	**A4SML2525M0510**	5	10	5	25	25	33	150	23	32	**MS1970**	–	T30
3854274	**A4SML2525M0610**	6	10	6	25	25	33	150	22	37	**MS1970**	–	T30



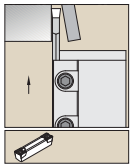


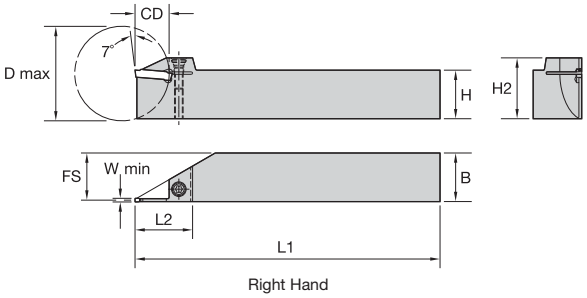
Right Hand

Integral Straight Top Clamp • Inch



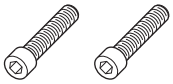
order number	catalog number	seat size	CD	W min	H	B	H2	H3	L1	FS	LH	clamp screw	clamp screw	wrench size clamp screw
right hand														
2981197	**A4SCR060113**	1	.53	.059	.375	.375	.82	.25	4.50	.35	.98	**MS1156**	–	T15
2981196	**A4SCR080113**	1	.53	.059	.500	.500	.82	.13	4.50	.47	.98	**MS1156**	–	T15
2981195	**A4SCR100113**	1	.53	.059	.625	.625	.82	–	4.50	.60	.98	**MS1156**	–	T15
2981194	**A4SCR120113**	1	.53	.059	.750	.743	.95	–	5.00	.72	.98	**MS1156**	–	T15
4168856	**A4SCR080214**	2	.57	.079	.500	.500	.82	.13	4.50	.46	1.10	**MS1160**	–	T20
4168857	**A4SCR100217**	2	.69	.079	.625	.625	1.02	.16	4.50	.59	1.22	–	**MS1944**	T25
4168858	**A4SCR080314**	3	.57	.118	.500	.500	.90	.13	4.50	.45	1.18	–	**MS2091**	25 IP
4168859	**A4SCR100317**	3	.69	.118	.625	.625	1.06	.16	4.50	.57	1.30	–	**MS2091**	25 IP
left hand														
2981102	**A4SCL080113**	1	.53	.059	.500	.500	.82	.13	4.50	.47	.98	**MS1156**	–	T15
2981101	**A4SCL100113**	1	.53	.059	.625	.625	.82	–	4.50	.60	.98	**MS1156**	–	T15
2981100	**A4SCL120113**	1	.53	.059	.750	.750	.95	–	5.00	.72	.98	**MS1156**	–	T15
4168860	**A4SCL080214**	2	.57	.079	.500	.500	.82	.13	4.50	.46	1.10	**MS1160**	–	T20
4168861	**A4SCL100217**	2	.69	.079	.625	.625	1.02	.16	4.50	.59	1.22	–	**MS1944**	T25
4168862	**A4SCL080314**	3	.57	.118	.500	.500	.90	.13	4.50	.45	1.18	–	**MS2091**	25 IP
4168883	**A4SCL100317**	3	.69	.118	.625	.625	1.06	.16	4.50	.57	1.30	–	**MS2091**	25 IP



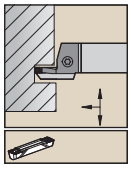


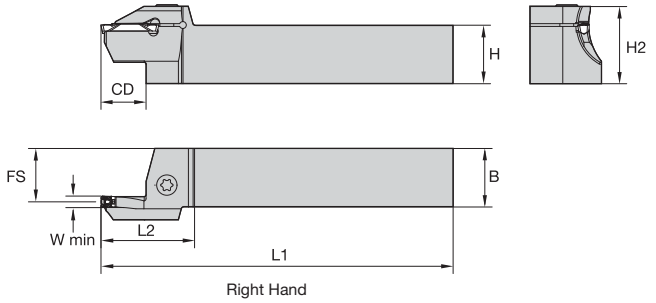
Right Hand

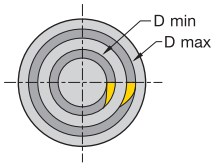
Integral Straight Top Clamp • Metric

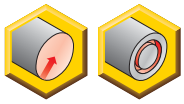


order number	catalog number	seat size	D max	CD	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	wrench size clamp screw
right hand														
2982224	**A4SCR1010K0113**	1	27	13,500	1,50	10	10	21	125	9,40	25	**MS1156**	–	T15
2978378	**A4SCR1212K0113**	1	27	13,500	1,50	12	12	21	125	11,40	25	**MS1156**	–	T15
2982223	**A4SCR1616K0113**	1	27	13,500	1,50	16	16	21	125	15,40	25	**MS1156**	–	T15
2982172	**A4SCR2020K0113**	1	27	13,500	1,50	20	20	25	125	19,40	25	**MS1156**	–	T15
4169745	**A4SCR1212K0214**	2	28	14,000	2,00	12	12	21	125	11,17	28	**MS1160**	–	T20
4169746	**A4SCR1616K0217**	2	34	17,000	2,00	16	16	26	125	15,20	31	–	**MS1944**	T25
4169747	**A4SCR1212K0314**	3	28	14,000	3,00	12	12	23	125	10,72	30	–	**MS2091**	25 IP
4169748	**A4SCR1616K0317**	3	34	17,000	3,00	16	16	27	125	14,72	33	–	**MS2091**	25 IP
left hand														
2982170	**A4SCL1212K0113**	1	27	13,500	1,50	12	12	21	125	11,40	25	**MS1156**	–	T15
2982169	**A4SCL1616K0113**	1	27	13,500	1,50	16	16	21	125	15,40	25	**MS1156**	–	T15
2982168	**A4SCL2020K0113**	1	27	13,500	1,50	20	20	25	125	19,40	25	**MS1156**	–	T15
4169749	**A4SCL1212K0214**	2	28	14,000	2,00	12	12	21	125	11,17	28	**MS1160**	–	T20
4169750	**A4SCL1616K0217**	2	34	17,000	2,00	16	16	26	125	15,20	31	–	**MS1944**	T25
4169752	**A4SCL1616K0317**	3	34	17,000	3,00	16	16	27	125	14,72	33	–	**MS2091**	25 IP

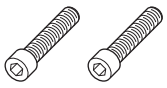

Right hand shown.



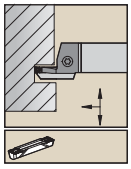


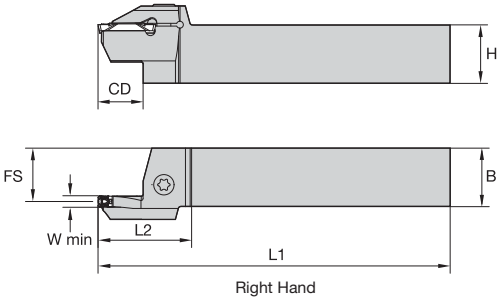


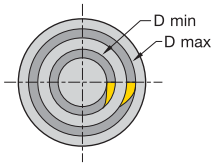
Integral Face Grooving • Outboard • Inch

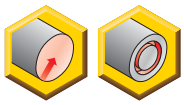


order number	catalog number	seat size	CD	D min	D max	W min	H	B	H2	L1	FS	LH	clamp screw	clamp screw	Torx
right hand															
3865852	**A4SBR122S12016020**	2S	.47	.630	.787	.079	.750	.750	.95	5.00	.72	1.10	**MS1160**	–	T20
3865903	**A4SBR122S12020025**	2S	.47	.787	.984	.079	.750	.750	.95	5.00	.72	1.10	**MS1160**	–	T20
3865905	**A4SBR123S14020025**	3S	.55	.787	.984	.118	.750	.750	1.07	5.00	.70	1.18	–	**MS1595**	T30
3865906	**A4SBR123S14025036**	3S	.55	.984	1.417	.118	.750	.750	1.07	5.00	.70	1.38	–	**MS1595**	T30
3865910	**A4SBR165S19038058**	5S	.75	1.496	2.284	.197	1.000	1.000	1.32	6.00	.91	1.57	–	**MS1970**	T30
left hand															
3865911	**A4SBL122S12016020**	2S	.47	.630	.787	.079	.750	.750	.95	5.00	.72	1.10	**MS1160**	–	T20


Right hand shown.

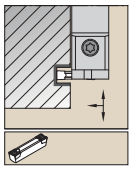


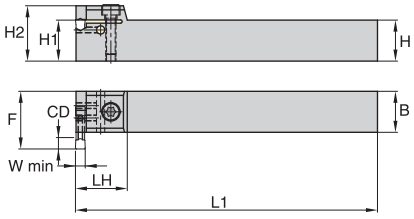




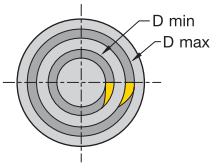
Integral Face Grooving • Outboard • Metric

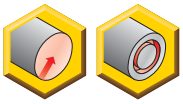
order number	catalog number	seat size	CD	D min	D max	W min	H	B	H2	L1	FS	LH	clamp screw	Torx
right hand														
3865920	**A4SBR2020K2S12016020**	2S	12	16	20	2,00	20	20	25	125	19,20	28	–	T20
3865921	**A4SBR2020K2S12020025**	2S	12	20	25	2,00	20	20	25	125	19,20	28	–	T20
3865922	**A4SBR2020K2S12025036**	2S	12	25	36	2,00	20	20	25	125	19,20	28	–	T20
3865923	**A4SBR2020K3S14020025**	3S	14	20	25	3,00	20	20	28	125	18,70	35	**MS1595**	T30
3865924	**A4SBR2020K3S14025036**	3S	14	25	36	3,00	20	20	28	125	18,70	35	**MS1595**	T30
3865926	**A4SBR2020K4S14035048**	4S	14	35	48	4,00	20	20	28	125	18,20	35	**MS1595**	T30
3865927	**A4SBR2525M5S19028038**	5S	19	28	38	5,00	25	25	33	150	22,70	40	**MS1970**	T30
3865928	**A4SBR2525M5S19038058**	5S	19	38	58	5,00	25	25	33	150	22,70	40	**MS1970**	T30
left hand														
3865929	**A4SBL2020K2S12016020**	2S	12	16	20	2,00	20	20	25	125	19,20	28	–	T20
3865931	**A4SBL2020K2S12025036**	2S	12	25	36	2,00	20	20	25	125	19,20	28	–	T20
3865932	**A4SBL2020K3S14020025**	3S	14	20	25	3,00	20	20	28	125	18,70	35	**MS1595**	T30
3865934	**A4SBL2020K4S14025035**	4S	14	25	35	4,00	20	20	28	125	18,20	35	**MS1595**	T30
3865937	**A4SBL2525M5S19038058**	5S	19	38	58	5,00	25	25	33	150	22,70	40	**MS1970**	T30





Right Hand



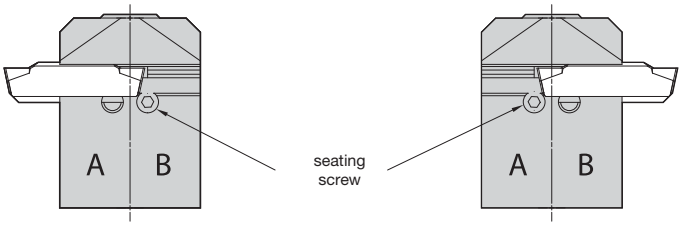


Integral Face Grooving • End Mount • Dual Handed • Inch

order number	catalog number	seat size	CD	W min	D min	H	H1	B	H2	L1	F	LH	clamp screw	Torx	hex seating screw
2414138	**A4ENN120305**	3	.20	.118	2.756	.750	.75	.750	1.06	5.00	.96	.98	**MS2091**	T25	**MS2090**
2414139	**A4ENN160305**	3	.20	.118	2.756	1.000	1.00	1.000	1.26	6.00	1.21	.98	**MS2091**	T25	**MS2090**
1953331	**A4ENN120407**	4	.28	.157	3.543	.750	.75	.750	1.06	5.00	1.06	.98	**MS2091**	T25	**MS2090**
1953332	**A4ENN160407**	4	.28	.157	3.543	1.000	1.00	1.000	1.26	6.00	1.31	.98	**MS2091**	T25	**MS2090**
1953334	**A4ENN160509**	5	.35	.197	4.724	1.000	1.00	1.000	1.30	6.00	1.40	1.34	**MS1970**	T30	**193.297**
2511469	**A4ENN160611**	6	.43	.236	4.724	1.000	1.00	1.000	1.30	6.00	1.54	1.34	**MS1970**	T30	**193.297**
2511470	**A4ENN200611**	6	.43	.236	4.724	1.250	1.25	1.250	1.57	6.00	1.70	1.34	**MS1970**	T30	**193.297**
2511471	**A4ENN160811**	8	.43	.315	4.724	1.000	1.00	1.000	1.38	6.00	1.54	1.57	**MS1490**	T45	**193.407**

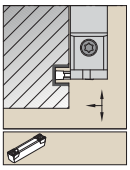
NOTE: D min for face grooving applications.
A4EN-style toolholders are designed without steel support for face grooving capacity. Cutting feed recommendations should be reduced by 25–30%.
Recommended clamp screw torque, 6–8 Nm (50–70 in. lbs.).
Minimum cutting width supplied for reference only; see insert listing for actual width. Always match seat size of insert to seat size of holder.

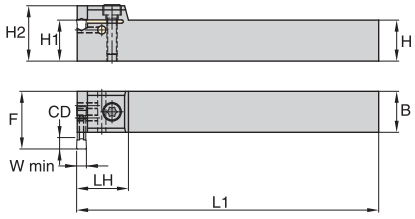
A4EN Insert Mounting



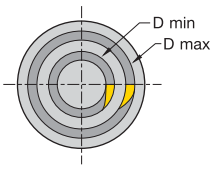
left-hand cut
right-hand cut

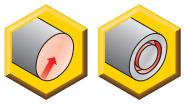
A4EN-style holders can be used for either left- or right-hand applications. The seating screw is to be used in position B for a left-hand cut and in position A for a right-hand cut.





Right Hand



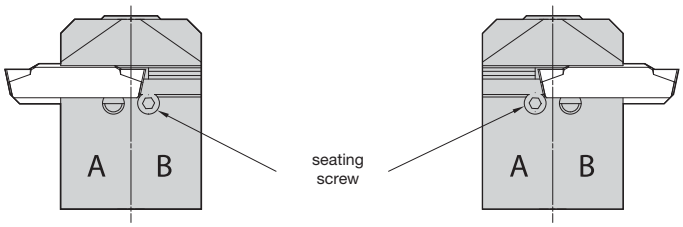


Integral Face Grooving • End Mount • Dual Handed • Metric

order number	catalog number	seat size	CD	W min	D min	H1	B	H2	L1	F	LH	clamp screw	Torx	hex seating screw	hex (mm)
2414136	**A4ENN2020K0305**	3	5	3,00	70	20	20	27	125,0	25,4	25	**MS2091**	T25	**MS2090**	1.5 mm
2414137	**A4ENN2525M0305**	3	5	3,00	70	25	25	32	150,0	30,4	25	**MS2091**	T25	**MS2090**	1.5 mm
1949651	**A4ENN2020K0407**	4	7	4,00	90	20	20	27	125,0	27,9	25	**MS2091**	T25	**MS2090**	1.5 mm
1949652	**A4ENN2525M0407**	4	7	4,00	90	25	25	32	150,0	33,1	25	**MS2091**	T25	**MS2090**	1.5 mm
1949654	**A4ENN2525M0509**	5	9	5,00	120	25	25	33	150,0	35,1	34	**MS1970**	T30	**193.297**	1.5 mm
2503543	**A4ENN2020K0611**	6	11	6,00	120	20	20	28	125,0	35,4	34	**MS1595**	T30	**193.297**	2 mm
2503544	**A4ENN2525M0611**	6	11	6,00	120	25	25	33	150,0	38,9	34	**MS1970**	T30	**193.297**	2 mm
2503545	**A4ENN3232P0611**	6	11	6,00	120	32	32	40	170,0	43,4	34	**MS1970**	T30	**193.297**	2 mm

NOTE: D min for face grooving applications.
A4EN-style toolholders are designed without steel support for face grooving capacity. Cutting feed recommendations should be reduced by 25–30%.
Recommended clamp screw torque, 50–70 in. lbs. (6–8 Nm).
Minimum cutting width supplied for reference only; see insert listing for actual width. Always match seat size of insert to seat size of holder.

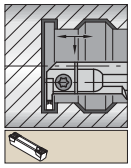
A4EN Insert Mounting



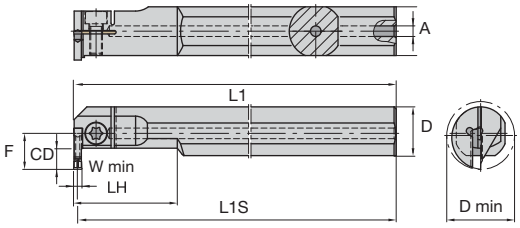
left-hand cut

right-hand cut

A4EN-style holders can be used for either left- or right-hand applications. The seating screw is to be used in position B for a left-hand cut and in position A for a right-hand cut.



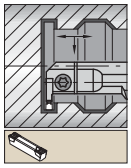
Steel shank with through coolant.



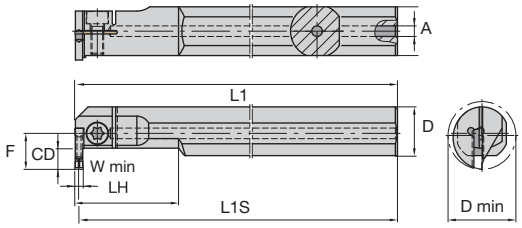
Right Hand

Steel Boring Bar • Inch

order number	catalog number	seat size	CD	W min	D	D min	L1	F	L1S	A	clamp screw	wrench size clamp screw
right hand												
2979227	**A12RA4EMR0207N**	2	.276	.079	.750	.984	8.02	.507	7.98	.16	**MS2089**	25 IP
1953335	**A12RA4EMR0307N**	3	.276	.118	.750	.984	8.00	.512	7.94	.16	**MS2089**	25 IP
1953341	**A12RA4EMR0407N**	4	.276	.157	.750	.984	8.00	.512	7.92	.16	**MS2089**	25 IP
2979229	**A16RA4EMR0210N**	2	.394	.079	1.000	1.260	8.02	.664	7.98	.20	**MS2089**	25 IP
1953337	**A16RA4EMR0310N**	3	.394	.118	1.000	1.260	8.02	.669	7.96	.20	**MS1595**	T30
1953343	**A16RA4EMR0410N**	4	.394	.157	1.000	1.260	8.02	.669	7.94	.20	**MS1595**	T30
1953339	**A20SA4EMR0312N**	3	.472	.118	1.250	1.575	10.00	.866	9.94	.24	**MS1595**	T30
1953345	**A20SA4EMR0412N**	4	.472	.157	1.250	1.575	10.00	.866	9.92	.24	**MS1595**	T30
1953349	**A20SA4EMR0516N**	5	.630	.197	1.250	1.732	10.00	1.024	9.90	.24	**MS1595**	T30
2263203	**A20SA4EMR0616N**	6	.646	.236	1.250	1.732	10.00	1.024	9.88	.24	**MS1595**	T30
1953347	**A24TA4EMR0416N**	4	.630	.157	1.500	2.047	12.00	1.181	11.92	.24	**MS1970**	T30
1953351	**A24TA4EMR0516N**	5	.630	.197	1.500	2.047	12.00	1.181	11.90	.24	**MS1970**	T30
2263199	**A24TA4EMR0616N**	6	.646	.236	1.500	2.047	12.00	1.181	11.88	.24	**MS1970**	T30
2263200	**A32TA4EMR0616N**	6	.646	.236	2.000	2.559	12.00	1.378	11.88	.24	**MS1970**	T30
left hand												
1953336	**A12RA4EML0307N**	3	.276	.118	.750	.984	8.00	.512	7.94	.16	**MS2089**	25 IP
1953342	**A12RA4EML0407N**	4	.276	.157	.750	.984	8.00	.512	7.92	.16	**MS2089**	25 IP
1953338	**A16RA4EML0310N**	3	.394	.118	1.000	1.260	8.02	.669	7.96	.20	**MS1595**	T30
1953344	**A16RA4EML0410N**	4	.394	.157	1.000	1.260	8.02	.669	7.94	.20	**MS1595**	T30
1953352	**A24TA4EML0516N**	5	.646	.197	1.500	2.047	12.00	1.181	11.90	.24	**MS1970**	T30
2263201	**A24TA4EML0616N**	6	.646	.236	1.500	2.047	12.00	1.181	11.88	.24	**MS1970**	T30



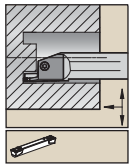
Steel shank with through coolant.

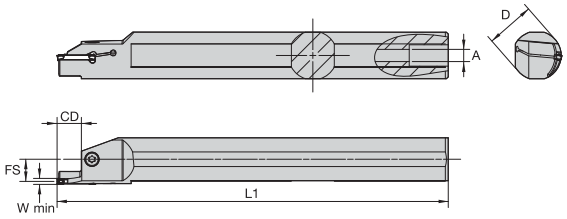


Right Hand

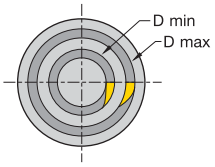
Steel Boring Bar • Metric

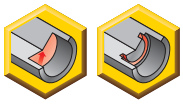
order number	catalog number	seat size	CD	W min	D	D min	L1	F	L1S	A	clamp screw	wrench size clamp screw
right hand												
2979223	**A20RA4EMR0207M**	2	7,00	2,00	20	25	200	13	199,0	4,00	**MS2089**	25 IP
2979225	**A25RA4EMR0210M**	2	10,00	2,00	25	32	200	17	199,0	5,00	**MS2089**	25 IP
1949655	**A20RA4EMR0307M**	3	7,00	3,00	20	25	200	13	198,5	4,00	**MS2089**	25 IP
1949657	**A25RA4EMR0310M**	3	10,00	3,00	25	32	200	17	198,5	5,00	**MS1595**	T30
1949659	**A32SA4EMR0312M**	3	12,00	3,00	32	40	250	22	248,5	6,00	**MS1595**	T30
1949661	**A20RA4EMR0407M**	4	7,00	4,00	20	25	200	13	198,0	4,00	**MS2089**	25 IP
1949663	**A25RA4EMR0410M**	4	10,00	4,00	25	32	200	17	198,0	5,00	**MS1595**	T30
1949665	**A32SA4EMR0412M**	4	12,00	4,00	32	40	250	22	248,0	6,00	**MS1595**	T30
1949667	**A40TA4EMR0416M**	4	16,00	4,00	40	52	300	30	298,0	6,00	**MS1970**	T30
1949669	**A32SA4EMR0516M**	5	16,00	5,00	32	44	250	26	247,5	6,00	**MS1595**	T30
1949671	**A40TA4EMR0516M**	5	16,00	5,00	40	52	300	30	297,5	6,00	**MS1970**	T30
2263197	**A40TA4EMR0616M**	6	16,00	6,00	40	52	300	30	297,0	6,00	**MS1970**	T30
left hand												
2979192	**A20RA4EML0207M**	2	7,00	2,00	20	25	200	13	199,0	4,00	**MS2089**	25 IP
2979224	**A25RA4EML0210M**	2	10,00	2,00	25	32	200	17	199,0	5,00	**MS2089**	25 IP
1949656	**A20RA4EML0307M**	3	7,00	3,00	20	25	200	13	198,5	4,00	**MS2089**	25 IP
1949658	**A25RA4EML0310M**	3	10,00	3,00	25	32	200	17	198,5	5,00	**MS1595**	T30
1949660	**A32SA4EML0312M**	3	12,00	3,00	32	40	250	22	248,5	6,00	**MS1595**	T30
1949662	**A20RA4EML0407M**	4	7,00	4,00	20	25	200	13	198,0	4,00	**MS2089**	25 IP
1949664	**A25RA4EML0410M**	4	10,00	4,00	25	32	200	17	198,0	5,00	**MS1595**	T30
1949666	**A32SA4EML0412M**	4	12,00	4,00	32	40	250	22	248,0	6,00	**MS1595**	T30
1949668	**A40TA4EML0416M**	4	16,00	4,00	40	52	300	30	298,0	6,00	**MS1970**	T30
1949670	**A32SA4EML0516M**	5	16,00	5,00	32	44	250	26	247,5	6,00	**MS1595**	T30
1949672	**A40TA4EML0516M**	5	16,00	5,00	40	52	300	30	297,5	6,00	**MS1970**	T30
2263198	**A40TA4EML0616M**	6	16,00	6,00	40	52	300	30	297,0	6,00	**MS1970**	T30





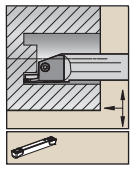
Right Hand

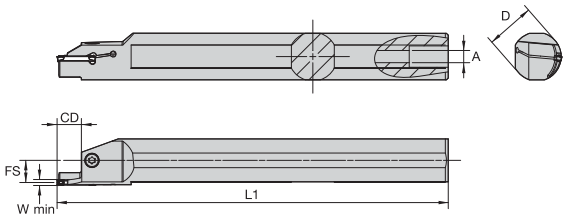




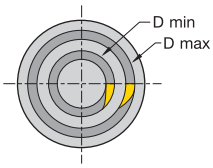
Steel Face Grooving Boring Bar • Inch

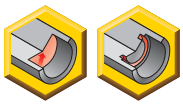
order number	catalog number	seat size	CD	D min	D max	W min	D	L1	FS	A	clamp screw	wrench size clamp screw
right hand												
3871028	**A10RA4SAR2S12N017021**	2S	.47	.669	.827	.079	.63	8.01	.28	.158	**MS1160**	T20
3871029	**A12RA4SAR2S12N021026**	2S	.47	.827	1.024	.079	.75	8.01	.34	.158	**MS1160**	T20
3871030	**A16RA4SAR2S12N026036**	2S	.47	1.024	1.417	.079	1.00	8.01	.47	.250	**MS1160**	T20
3871032	**A16RA4SAR3S14N026036**	3S	.55	1.024	1.417	.118	1.00	8.01	.45	.250	**MS1160**	T20
left hand												
3871023	**A10RA4SAL2S12N017021**	2S	.47	.669	.827	.079	.63	8.01	.28	.158	**MS1160**	T20
3871027	**A16RA4SAL3S14N026036**	3S	.55	1.024	1.417	.118	1.00	8.01	.45	.250	**MS1160**	T20





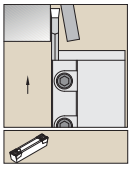
Right Hand

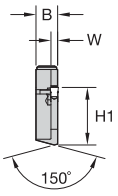


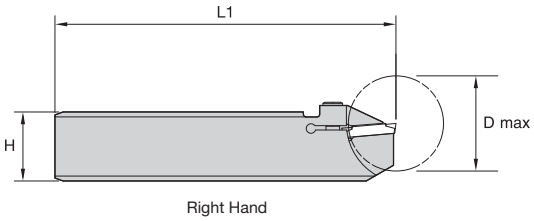


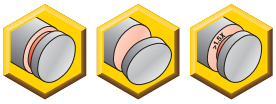
Steel Face Grooving Boring Bar • Metric

order number	catalog number	seat size	CD	D min	D max	W min	D	L1	FS	A	clamp screw	wrench size clamp screw
right hand												
3871038	**A16RA4SAR2S12M017021**	2S	12,00	17	21	2,00	16	201	7	4,00	**MS1160**	T20
3871039	**A20RA4SAR2S12M021026**	2S	12,00	21	23	2,00	20	201	9	4,00	**MS1160**	T20
3871040	**A25RA4SAR2S12M026036**	2S	12,00	26	36	2,00	25	201	12	6,35	**MS1160**	T20
3871041	**A20RA4SAR3S14M021026**	3S	14,00	21	26	3,00	20	201	9	4,00	**MS1160**	T20
3871042	**A25RA4SAR3S14M026036**	3S	14,00	26	36	3,00	25	201	11	6,35	**MS1160**	T20
left hand												
3871033	**A16RA4SAL2S12M017021**	2S	12,00	17	21	2,00	16	201	7	4,00	**MS1160**	T20
3871034	**A20RA4SAL2S12M021026**	2S	12,00	21	26	2,00	20	201	9	4,00	**MS1160**	T20
3871035	**A25RA4SAL2S12M026036**	2S	12,00	26	36	2,00	25	201	12	6,35	**MS1160**	T20
3871037	**A25RA4SAL3S14M026036**	3S	14,00	26	36	3,00	25	201	11	6,35	**MS1160**	T20



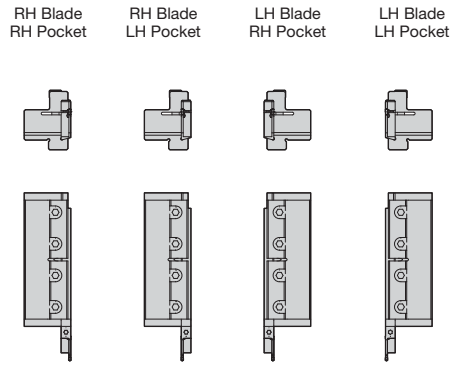


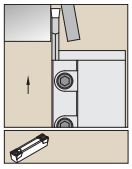


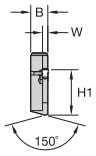


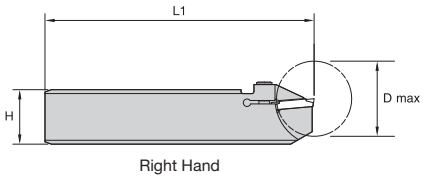
Single-Ended Cut-Off Blade • Inch

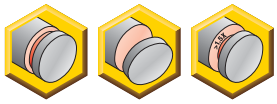
order number	catalog number	seat size	H	W	H1	L1	B	D max	clamp screw	Torx
right hand										
3967127	**A4BHCL26K0317R**	3	1.024	.118	.843	4.921	.31	1.378	**MS1571**	T20
3967124	**A4BHCL32K0317R**	3	1.260	.118	.984	4.921	.31	1.378	**MS1571**	T20
3967117	**A4BHCR32K0217R**	2	1.260	.079	.984	4.921	.31	1.378	**MS1571**	T20
left hand										
3967136	**A4BHCL32K0217L**	2	1.260	.079	.984	4.921	.31	1.378	**MS1571**	T20
3967137	**A4BHCL32K0317L**	3	1.260	.118	.984	4.921	.31	1.378	**MS1571**	T20
3967134	**A4BHCR26K0317L**	3	1.024	.118	.843	4.921	.31	1.378	**MS1571**	T20







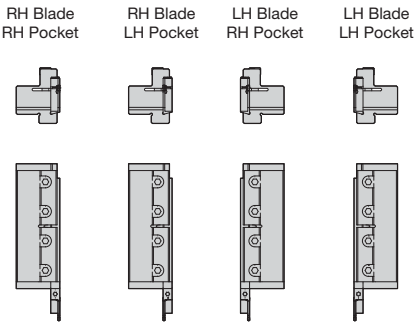


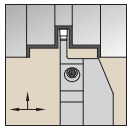


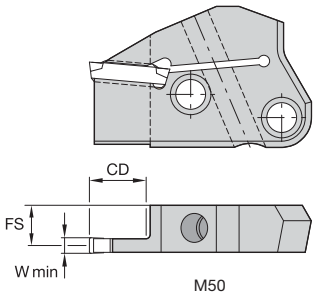
Single-Ended Cut-Off Blade • Metric

order number	catalog number	seat size	H	W	H1	L1	B	D max	clamp screw	Torx
right hand										
3967127	**A4BHCL26K0317R**	3	26	3,0	21,4	125	7,95	35	**MS1571**	T20
3967124	**A4BHCL32K0317R**	3	32	3,0	25,0	125	7,95	35	**MS1571**	T20
3967117	**A4BHCR32K0217R**	2	32	2,0	25,0	125	7,95	35	**MS1571**	T20
left hand										
3967136	**A4BHCL32K0217L**	2	32	2,0	25,0	125	7,95	35	**MS1571**	T20
3967137	**A4BHCL32K0317L**	3	32	3,0	25,0	125	7,95	35	**MS1571**	T20
3967134	**A4BHCR26K0317L**	3	26	3,0	21,4	125	7,95	35	**MS1571**	T20

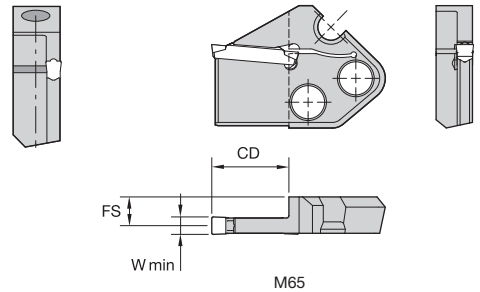
NOTE: Seat size 1 blades only.
Assembly wrenches 170.137 and 170.130 must be ordered separately.




Right hand shown



M50

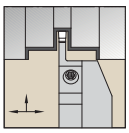


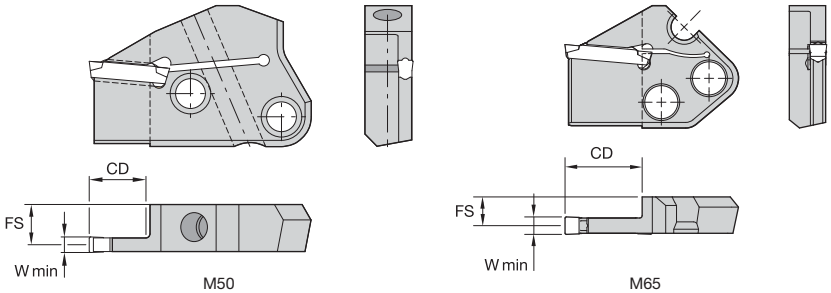
M65

Right Hand

Modular Straight Blade with Coolant

order number	catalog number	seat size	CD mm	CD in	FS mm	FS in	blade size
right hand							
6401815	**A4M50R0314MC**	3	14,0	.55	10,42	.410	50
6401817	**A4M50R0414MC**	4	14,0	.55	9,92	.391	50
6401819	**A4M50R0519MC**	5	19,0	.75	9,42	.371	50
6401834	**A4M65R0620MC**	6	20,0	.79	9,88	.389	65
6401838	**A4M65R0820MC**	8	20,0	.79	9,00	.354	65
6401852	**A4M65R1020MC**	10	20,0	.79	8,35	.329	65
6401831	**A4M65R0522MC**	5	22,0	.87	10,28	.405	65
6401835	**A4M65R0626MC**	6	26,0	1.02	9,88	.389	65
6401839	**A4M65R0826MC**	8	26,0	1.02	9,00	.354	65
6401853	**A4M65R1026MC**	10	26,0	1.02	8,35	.329	65
left hand							
6401814	**A4M50L0314MC**	3	14,0	.55	10,42	.410	50
6401816	**A4M50L0414MC**	4	14,0	.55	9,92	.391	50
6401818	**A4M50L0519MC**	5	19,0	.75	9,43	.371	50
6401832	**A4M65L0620MC**	6	20,0	.79	9,88	.389	65
6401836	**A4M65L0820MC**	8	20,0	.79	9,00	.354	65
6401840	**A4M65L1020MC**	10	20,0	.79	8,35	.329	65
6401820	**A4M65L0522MC**	5	22,0	.87	10,28	.405	65
6401833	**A4M65L0626MC**	6	26,0	1.02	9,88	.389	65
6401837	**A4M65L0826MC**	8	26,0	1.02	9,00	.354	65
6401851	**A4M65L1026MC**	10	26,0	1.02	8,35	.329	65


Right hand shown.

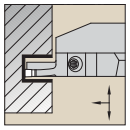


Right Hand

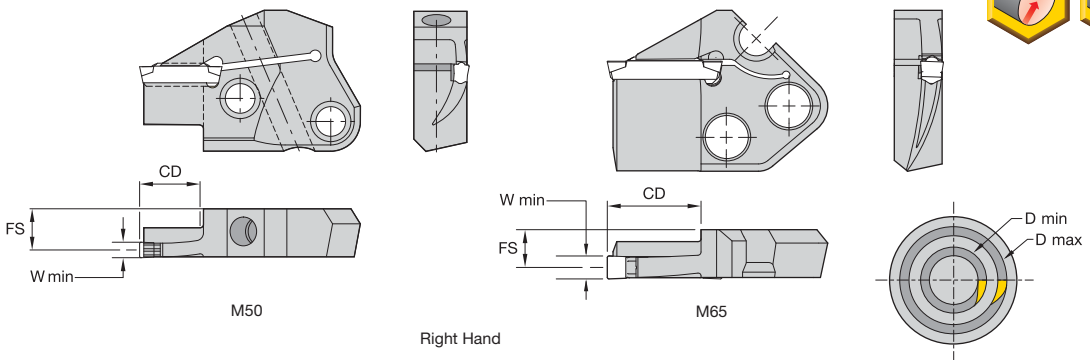
Modular Straight Blade

order number	catalog number	seat size	W min mm	W min in	CD mm	CD in	FS mm	FS in	blade size
right hand									
3051624	**A4M50R0214M**	2	2,00	.079	14,0	.55	10,87	.428	50
1989348	**A4M50R0314M**	3	3,00	.118	14,0	.55	10,43	.410	50
1989350	**A4M50R0414M**	4	4,00	.157	14,0	.55	9,93	.391	50
1989352	**A4M50R0519M**	5	5,00	.197	19,0	.75	9,43	.371	50
3557114	**A4M65R0620M**	6	6,00	.236	20,0	.79	9,88	.389	65
3557116	**A4M65R0626M**	6	6,00	.236	26,0	1.02	9,88	.389	65
3557120	**A4M65R0826M**	8	8,00	.315	26,0	1.02	9,00	.354	65
3557124	**A4M65R1026M**	10	10,00	.394	26,0	1.02	8,35	.329	65
left hand									
3022625	**A4M50L0214M**	2	2,00	.079	14,0	.55	10,87	.428	50
1989347	**A4M50L0314M**	3	3,00	.118	14,0	.55	10,43	.410	50
1989349	**A4M50L0414M**	4	4,00	.157	14,0	.55	9,93	.391	50
3051623	**A4M50L2B14M**	2B	2,50	.098	14,0	.55	10,70	.421	50
1989351	**A4M50L0519M**	5	5,00	.197	19,0	.75	9,43	.371	50
3557115	**A4M65L0620M**	6	6,00	.236	20,0	.79	9,88	.389	65
3557119	**A4M65L0820M**	8	8,00	.315	20,0	.79	9,00	.354	65
3557123	**A4M65L1020M**	10	10,00	.394	20,0	.79	8,35	.329	65
3557117	**A4M65L0626M**	6	6,00	.236	26,0	1.02	9,88	.389	65
3557121	**A4M65L0826M**	8	8,00	.315	26,0	1.02	9,00	.354	65
3557125	**A4M65L1026M**	10	10,00	.394	26,0	1.02	8,35	.329	65

NOTE: Seat size 2B only accepts 2B inserts. Seat size 2 accepts 2 or 2B inserts.



Right hand shown.



Modular Face Groovin g Blade • Inboard

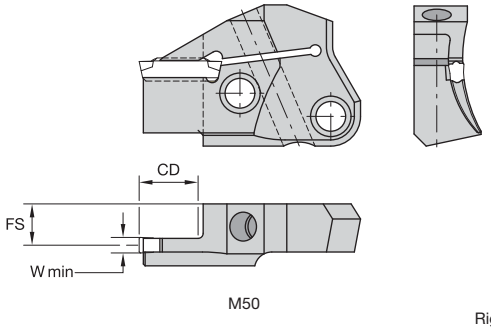
order number	catalog number	seat size	D min mm	D min in	D max mm	D max in	W min	CD	FS	cartridge size
right hand										
3051670	**A4M50R0212A036046**	2	36	1.417	46	1.811	.079	.47	0.429	50
3051671	**A4M50R0212A042054**	2	42	1.654	54	2.126	.079	.47	0.429	50
3051672	**A4M50R0212A050064**	2	50	1.969	64	2.520	.079	.47	0.429	50
3051673	**A4M50R0212A060084**	2	60	2.362	84	3.307	.079	.47	0.429	50
3051674	**A4M50R0212A080124**	2	80	3.150	124	4.882	.079	.47	0.429	50
3051675	**A4M50R0212A120254**	2	120	4.724	254	10.000	.079	.47	0.429	50
3051676	**A4M50R0212A250999**	2	250	9.843	–	–	.079	.47	0.429	50
2542517	**A4M50R0314A036048**	3	36	1.417	48	1.890	.118	.55	0.413	50
2542518	**A4M50R0314A042058**	3	42	1.654	58	2.284	.118	.55	0.413	50
2542519	**A4M50R0314A052074**	3	52	2.047	74	2.913	.118	.55	0.413	50
2542520	**A4M50R0314A068100**	3	68	2.677	100	3.937	.118	.55	0.413	50
2542521	**A4M50R0314A090160**	3	90	3.543	160	6.299	.118	.55	0.413	50
2542522	**A4M50R0314A130300**	3	130	5.118	300	11.811	.118	.55	0.413	50
2542523	**A4M50R0314A290999**	3	290	11.417	–	–	.118	.55	0.413	50
2542531	**A4M50R0414A048072**	4	48	1.890	72	2.835	.157	.55	0.394	50
2542532	**A4M50R0414A064100**	4	64	2.520	100	3.937	.157	.55	0.394	50
2542533	**A4M50R0414A092150**	4	92	3.622	150	5.906	.157	.55	0.394	50
2542534	**A4M50R0414A132300**	4	132	5.197	300	11.811	.157	.55	0.394	50
2542535	**A4M50R0414A290999**	4	290	11.417	–	–	.157	.55	0.394	50
2542541	**A4M50R0519A058094**	5	58	2.284	94	3.701	.197	.75	0.374	50
2542542	**A4M50R0519A080136**	5	80	3.150	136	5.354	.197	.75	0.374	50
2542543	**A4M50R0519A120300**	5	120	4.724	300	11.811	.197	.75	0.374	50
2542544	**A4M50R0519A250999**	5	250	9.843	–	–	.197	.75	0.374	50
3557131	**A4M65R0624A070-112**	6	70	2.756	112	4.409	.236	.94	0.389	65
3557163	**A4M65R0624A100-212**	6	100	3.937	212	8.347	.236	.94	0.389	65
3557165	**A4M65R0624A200-999**	6	200	7.874	999	39.331	.236	.94	0.389	65
3557167	**A4M65R0824A090-200**	8	90	3.543	200	7.874	.315	.94	0.354	65
3557169	**A4M65R0824A184-999**	8	184	7.244	999	39.331	.315	.94	0.354	65
3557173	**A4M65R1024A200-999**	10	200	7.874	999	39.331	.394	.94	0.329	65

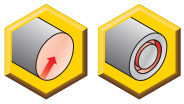
(*continued*)

(Modular Face Grooving Blade • Inboard — continued)

order number	catalog number	seat size	D min mm	D min in	D max mm	D max in	W min	CD	FS	cartridge size
left hand										
3051629	**A4M50L0212A060084**	2	60	2.362	84	3.307	.079	.47	0.429	50
3051631	**A4M50L0212A120254**	2	120	4.724	254	10.000	.079	.47	0.429	50
3051632	**A4M50L0212A250999**	2	250	9.843	—	—	.079	.47	0.429	50
2542524	**A4M50L0314A036048**	3	36	1.417	48	1.890	.118	.55	0.413	50
2542527	**A4M50L0314A068100**	3	68	2.677	100	3.937	.118	.55	0.413	50
2542528	**A4M50L0314A090160**	3	90	3.543	160	6.299	.118	.55	0.413	50
2542529	**A4M50L0314A130300**	3	130	5.118	300	11.811	.118	.55	0.413	50
2542530	**A4M50L0314A290999**	3	290	11.417	—	—	.118	.55	0.413	50
2542537	**A4M50L0414A064100**	4	64	2.520	100	3.937	.157	.55	0.394	50
2542538	**A4M50L0414A092150**	4	92	3.622	150	5.906	.157	.55	0.394	50
2542539	**A4M50L0414A132300**	4	132	5.197	300	11.811	.157	.55	0.394	50
2542540	**A4M50L0414A290999**	4	290	11.417	—	—	.157	.55	0.394	50
2542545	**A4M50L0519A058094**	5	58	2.284	94	3.701	.197	.75	0.374	50
2542546	**A4M50L0519A080136**	5	80	3.150	136	5.354	.197	.75	0.374	50
2542547	**A4M50L0519A120300**	5	120	4.724	300	11.811	.197	.75	0.374	50
2542548	**A4M50L0519A250999**	5	250	9.843	—	—	.197	.75	0.374	50
3557132	**A4M65L0624A070-112**	6	70	2.756	112	4.409	.236	.94	0.389	65
3557164	**A4M65L0624A100-212**	6	100	3.937	212	8.347	.236	.94	0.389	65
3557166	**A4M65L0624A200-999**	6	200	7.874	999	39.331	.236	.94	0.389	65
3557174	**A4M65L1024A200-999**	10	200	7.874	999	39.331	.394	.94	0.329	65

Right hand shown.





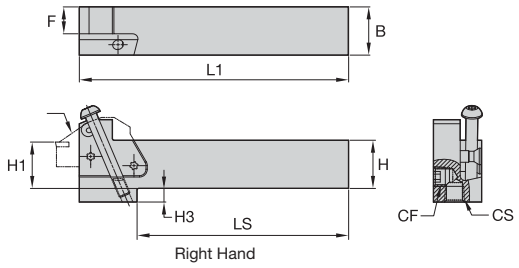
Modular Face Grooving Blade • Outboard

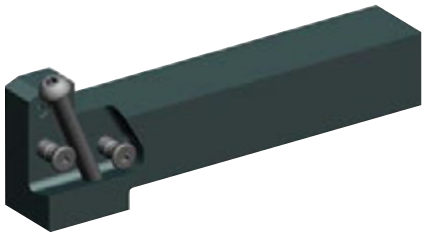
order number	catalog number	seat size	D min mm	D min in	D max mm	D max in	W min	CD mm	CD in	FS mm	FS in	cartridge size
right hand												
3051677	**A4M50R0212B036046**	2	36	1.417	46	1.811	.079	12,00	.47	10,900	.429	50
3051678	**A4M50R0212B042054**	2	42	1.654	54	2.126	.079	12,00	.47	10,900	.429	50
3051679	**A4M50R0212B050064**	2	50	1.969	64	2.520	.079	12,00	.47	10,900	.429	50
3051680	**A4M50R0212B060084**	2	60	2.362	84	3.307	.079	12,00	.47	10,900	.429	50
3051681	**A4M50R0212B080124**	2	80	3.150	124	4.882	.079	12,00	.47	10,900	.429	50
3051682	**A4M50R0212B120254**	2	120	4.724	254	10.000	.079	12,00	.47	10,900	.429	50
3051683	**A4M50R0212B250999**	2	250	9.843	—	—	.079	12,00	.47	10,900	.429	50
3867457	**A4M50R2S12B016020**	2S	16	.630	20	.787	.079	12,00	.47	10,900	.429	50
3867458	**A4M50R2S12B020025**	2S	20	.787	25	.984	.079	12,00	.47	10,900	.429	50
3867459	**A4M50R2S12B025036**	2S	25	.984	36	1.417	.079	12,00	.47	10,900	.429	50
2398751	**A4M50R0314B036048**	3	36	1.417	48	1.890	.118	14,00	.55	10,500	.413	50
2398752	**A4M50R0314B042058**	3	42	1.654	58	2.284	.118	14,00	.55	10,500	.413	50
2398763	**A4M50R0314B052074**	3	52	2.047	74	2.913	.118	14,00	.55	10,500	.413	50
2398764	**A4M50R0314B068100**	3	68	2.677	100	3.937	.118	14,00	.55	10,500	.413	50
2398765	**A4M50R0314B090160**	3	90	3.543	160	6.299	.118	14,00	.55	10,500	.413	50
2398766	**A4M50R0314B130300**	3	130	5.118	300	11.811	.118	14,00	.55	10,500	.413	50
2398767	**A4M50R0314B290999**	3	290	11.417	—	—	.118	14,00	.55	10,500	.413	50
2398775	**A4M50R0414B048072**	4	48	1.890	72	2.835	.157	14,00	.55	10,000	.394	50
2398776	**A4M50R0414B064100**	4	64	2.520	100	3.937	.157	14,00	.55	10,000	.394	50
2398777	**A4M50R0414B092150**	4	92	3.622	150	5.906	.157	14,00	.55	10,000	.394	50
2398778	**A4M50R0414B132300**	4	132	5.197	300	11.811	.157	14,00	.55	10,000	.394	50
2398779	**A4M50R0414B290999**	4	290	11.417	—	—	.157	14,00	.55	10,000	.394	50
3867460	**A4M50R3S14B020025**	3S	20	.787	25	.984	.118	14,00	.55	10,490	.413	50
3867461	**A4M50R3S14B025036**	3S	25	.984	36	1.417	.118	14,00	.55	10,490	.413	50
3867462	**A4M50R4S14B025035**	4S	25	.984	35	1.378	.157	14,00	.55	10,000	.394	50
3867464	**A4M50R5S17B028038**	5S	28	1.102	38	1.496	.197	17,00	.67	9,500	.374	50
2398785	**A4M50R0519B058094**	5	58	2.284	94	3.701	.197	19,00	.75	9,500	.374	50
2398786	**A4M50R0519B080136**	5	80	3.150	136	5.354	.197	19,00	.75	9,500	.374	50
2398787	**A4M50R0519B120300**	5	120	4.724	300	11.811	.197	19,00	.75	9,500	.374	50
2398788	**A4M50R0519B250999**	5	250	9.843	—	—	.197	19,00	.75	9,500	.374	50
3557175	**A4M65R0624B070-112**	6	70	2.756	112	4.409	.236	24,00	.94	9,870	.389	65
3557177	**A4M65R0624B100-212**	6	100	3.937	212	8.347	.236	24,00	.94	9,870	.389	65
3557179	**A4M65R0624B200-999**	6	200	7.874	999	39.331	.236	24,00	.94	9,870	.389	65
3557181	**A4M65R0824B090-200**	8	90	3.543	200	7.874	.315	24,00	.94	9,000	.354	65
3557193	**A4M65R0824B184-999**	8	184	7.244	999	39.331	.315	24,00	.94	9,000	.354	65
3557195	**A4M65R1024B100-220**	10	100	3.937	220	8.661	.394	24,00	.94	8,350	.329	65
3557197	**A4M65R1024B200-999**	10	200	7.874	999	39.331	.394	24,00	.94	8,350	.329	65

(*continued*)

(Modular Face Grooving Blade • Outboard — continued)

order number	catalog number	seat size	D min mm	D min in	D max mm	D max in	W min	CD mm	CD in	FS mm	FS in	cartridge size
left hand												
3051663	**A4M50L0212B036046**	2	36	1.417	46	1.811	.079	12,00	.47	10,900	.429	50
3051664	**A4M50L0212B042054**	2	42	1.654	54	2.126	.079	12,00	.47	10,900	.429	50
3051665	**A4M50L0212B050064**	2	50	1.969	64	2.520	.079	12,00	.47	10,900	.429	50
3051666	**A4M50L0212B060084**	2	60	2.362	84	3.307	.079	12,00	.47	10,900	.429	50
3051667	**A4M50L0212B080124**	2	80	3.150	124	4.882	.079	12,00	.47	10,900	.429	50
3051668	**A4M50L0212B120254**	2	120	4.724	254	10.000	.079	12,00	.47	10,900	.429	50
3867466	**A4M50L2S12B016020**	2S	16	.630	20	.787	.079	12,00	.47	10,900	.429	50
3867467	**A4M50L2S12B020025**	2S	20	.787	25	.984	.079	12,00	.47	10,900	.429	50
3867468	**A4M50L2S12B025036**	2S	25	.984	36	1.417	.079	12,00	.47	10,900	.429	50
2398768	**A4M50L0314B036048**	3	36	1.417	48	1.890	.118	14,00	.55	10,500	.413	50
2398769	**A4M50L0314B042058**	3	42	1.654	58	2.284	.118	14,00	.55	10,500	.413	50
2398770	**A4M50L0314B052074**	3	52	2.047	74	2.913	.118	14,00	.55	10,500	.413	50
2398771	**A4M50L0314B068100**	3	68	2.677	100	3.937	.118	14,00	.55	10,500	.413	50
2398772	**A4M50L0314B090160**	3	90	3.543	160	6.299	.118	14,00	.55	10,500	.413	50
2398773	**A4M50L0314B130300**	3	130	5.118	300	11.811	.118	14,00	.55	10,500	.413	50
2398774	**A4M50L0314B290999**	3	290	11.417	—	—	.118	14,00	.55	10,500	.413	50
2398780	**A4M50L0414B048072**	4	48	1.890	72	2.835	.157	14,00	.55	10,000	.394	50
2398781	**A4M50L0414B064100**	4	64	2.520	100	3.937	.157	14,00	.55	10,000	.394	50
2398782	**A4M50L0414B092150**	4	92	3.622	150	5.906	.157	14,00	.55	10,000	.394	50
2398783	**A4M50L0414B132300**	4	132	5.197	300	11.811	.157	14,00	.55	10,000	.394	50
2398784	**A4M50L0414B290999**	4	290	11.417	—	—	.157	14,00	.55	10,000	.394	50
3867469	**A4M50L3S14B020025**	3S	20	.787	25	.984	.118	14,00	.55	10,490	.413	50
3867470	**A4M50L3S14B025036**	3S	25	.984	36	1.417	.118	14,00	.55	10,490	.413	50
3867472	**A4M50L4S14B035048**	4S	35	1.378	48	1.890	.157	14,00	.55	10,000	.394	50
3867484	**A4M50L5S17B028038**	5S	28	1.102	38	1.496	.197	17,00	.67	9,500	.374	50
2398789	**A4M50L0519B058094**	5	58	2.284	94	3.701	.197	19,00	.75	9,500	.374	50
2398790	**A4M50L0519B080136**	5	80	3.150	136	5.354	.197	19,00	.75	9,500	.374	50
2398791	**A4M50L0519B120300**	5	120	4.724	300	11.811	.197	19,00	.75	9,500	.374	50
2398792	**A4M50L0519B250999**	5	250	9.843	—	—	.197	19,00	.75	9,500	.374	50
3557176	**A4M65L0624B070-112**	6	70	2.756	112	4.409	.236	24,00	.94	9,870	.389	65
3557178	**A4M65L0624B100-212**	6	100	3.937	212	8.347	.236	24,00	.94	9,870	.389	65
3557180	**A4M65L0624B200-999**	6	200	7.874	999	39.331	.236	24,00	.94	9,870	.389	65
3557182	**A4M65L0824B090-200**	8	90	3.543	200	7.874	.315	24,00	.94	9,000	.354	65
3557194	**A4M65L0824B184-999**	8	184	7.244	999	39.331	.315	24,00	.94	9,000	.354	65
3557198	**A4M65L1024B200-999**	10	200	7.874	999	39.331	.394	24,00	.94	8,350	.329	65



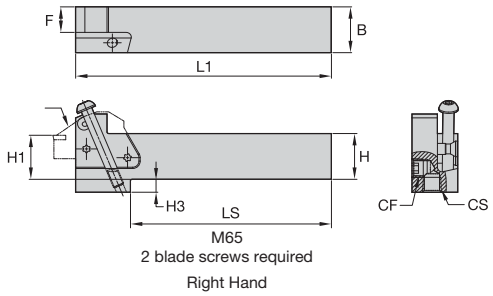


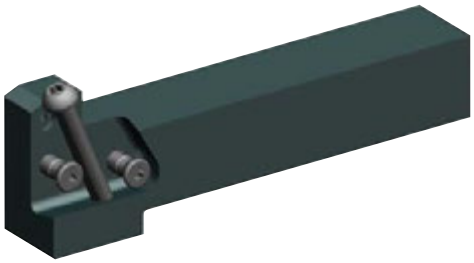
Modular Straight Toolholder • Inch

NOTE: For modular straight toolholder with coolant, see page C65.

order number	catalog number	H	B	L1	LS	F	H2	H3	blade size	blade screw	Torx	clamp screw	Torx
right hand													
1600245	**KGMSR1650N**	1.00	1.00	5.5	4.26	.56	—	6,35	**KT25**	**MS1162**	T25	**MS2002**	T25
3556992	**KGMSR1665N**	1.00	1.00	6.0	4.82	.53	2.09	12,70	**KT30L**	**MS1163**	T30	**—**	—
1617400	**KGMSR2050N**	1.25	1.25	5.5	—	.81	—	—	**KT25**	**MS1162**	T25	**MS2002**	T25
3557104	**KGMSR2065N**	1.25	1.25	6.0	4.90	.78	2.09	6,35	**KT30L**	**MS1163**	T30	**—**	—
1903553	**KGMSR2450N**	1.50	1.50	5.5	—	1.06	—	—	**KT25**	**MS1162**	T25	**MS2002**	T25
3557106	**KGMSR2465N**	1.50	1.50	7.0	5.90	1.03	2.09	—	**KT30L**	**MS1163**	T30	**—**	—
left hand													
1600246	**KGMSL1650N**	1.00	1.00	5.5	4.26	.56	—	6,35	**KT25**	**MS1162**	T25	**MS2002**	T25
3557103	**KGMSL1665N**	1.00	1.00	6.0	4.82	.53	2.09	12,70	**KT30L**	**MS1163**	T30	**—**	—
1617591	**KGMSL2050N**	1.25	1.25	5.5	—	.81	—	—	**KT25**	**MS1162**	T25	**MS2002**	T25
3557105	**KGMSL2065N**	1.25	1.25	6.0	4.90	.78	2.09	6,35	**KT30L**	**MS1163**	T30	**—**	—
1909004	**KGMSL2450N**	1.50	1.50	5.5	—	1.06	—	—	**KT25**	**MS1162**	T25	**MS2002**	T25
3557107	**KGMSL2465N**	1.50	1.50	7.0	5.90	1.03	2.09	—	**KT30L**	**MS1163**	T30	**—**	—

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71-88 in. lbs. (8–10 Nm)
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm)



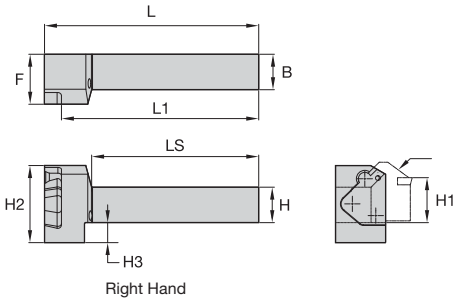


Modular Straight Toolholder • Metric

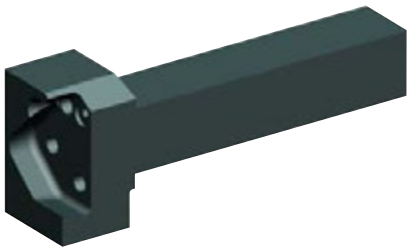
NOTE: For modular straight toolholder with coolant, see page C66.

order number	catalog number	B	H	L1	F	LS	H3	blade screw	Torx	clamp screw	Torx
right hand											
1600249	**KGMSR2525M50**	25	25	138,75	13,84	109,00	7,00	**MS1162**	T25	**MS2002**	T25
3553429	**KGMSR2525M65**	25	25	150,00	13,00	120,00	14,00	**MS1163**	T30	**–**	–
1621083	**KGMSR3232P50**	32	32	158,75	20,81	–	–	**MS1162**	T25	**MS2002**	T25
3553431	**KGMSR3232P65**	32	32	170,00	20,79	158,00	7,00	**MS1163**	T30	**–**	–
left hand											
1600250	**KGMSL2525M50**	25	25	138,75	13,84	109,00	7,00	**MS1162**	T25	**MS2002**	T25
3553430	**KGMSL2525M65**	25	25	150,00	13,00	120,00	14,00	**MS1163**	T30	**–**	–
1621084	**KGMSL3232P50**	32	32	158,75	20,81	–	–	**MS1162**	T25	**MS2002**	T25
3553432	**KGMSL3232P65**	32	32	170,00	20,79	158,00	7,00	**MS1163**	T30	**–**	–

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 8–10 Nm (71–88 in. lbs.).
M65 blade and clamp screw torque equals 18–20 Nm (159–177 in. lbs.).



Right Hand

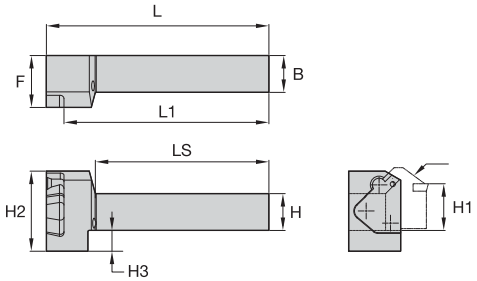


Modular End Mount Toolholder • Inch

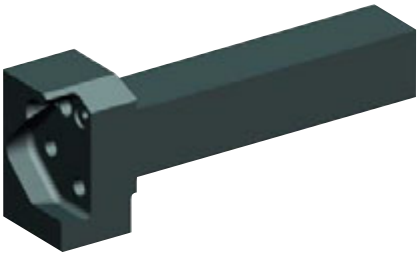
NOTE: For modular end mount toolholder with coolant, see page C67.

order number	catalog number	H	B	L1	LS	F	H2	H3	blade size	blade screw	Torx	clamp screw	Torx
right hand													
1600263	**KGMER1650N**	1.00	1.00	5.5	4.96	1.70	–	6,10	**KT25**	**MS1162**	T25	**MS2002**	T25
3557108	**KGMER1665N**	1.00	1.00	5.5	4.70	1.38	2.09	12,70	**KT30L**	**MS1163**	T30	**–**	–
1617592	**KGMER2050N**	1.25	1.25	5.5	4.96	1.70	–	–	**KT25**	**MS1162**	T25	**MS2002**	T25
3557110	**KGMER2065N**	1.25	1.25	5.5	4.70	1.38	2.09	6,35	**KT30L**	**MS1163**	T30	**–**	–
1907344	**KGMER2450N**	1.50	1.50	5.5	4.96	1.70	–	–	**KT25**	**MS1162**	T25	**MS2002**	T25
left hand													
1600264	**KGMEL1650N**	1.00	1.00	5.5	4.96	1.70	–	6,10	**KT25**	**MS1162**	T25	**MS2002**	T25
3557109	**KGMEL1665N**	1.00	1.00	5.5	4.70	1.38	2.09	12,70	**KT30L**	**MS1163**	T30	**–**	–
1617593	**KGMEL2050N**	1.25	1.25	5.5	4.96	1.70	–	–	**KT25**	**MS1162**	T25	**MS2002**	T25
3557111	**KGMEL2065N**	1.25	1.25	5.5	4.70	1.38	2.09	6,35	**KT30L**	**MS1163**	T30	**–**	–
3557113	**KGMEL2465N**	1.50	1.50	6.5	5.70	1.50	2.09	–	**KT30L**	**MS1163**	T30	**–**	–

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm)
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm)



M65
2 blade screws required
Right Hand



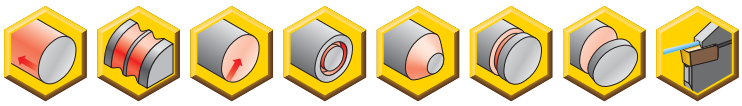
Modular End Mount Toolholders • Metric

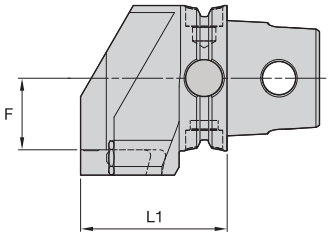
NOTE: For modular end mount toolholder with coolant, see page C68.

order number	catalog number	B	H	L1	F	LS	H3	L	blade screw (2 required)	Torx	clamp screw	Torx
right hand												
1600270	**KGMER2525M50**	25	25	139,25	42,75	125,25	6,84	150,25	**MS1162**	T25	**MS2002**	T25
3553453	**KGMER2525M65**	25	25	138,15	35,00	129,00	14,00	150,00	**MS1163**	T30	**–**	–
1621085	**KGMER3232P50**	32	32	159,25	42,75	145,25	–	170,25	**MS1162**	T25	**MS2002**	T25
3553455	**KGMER3232P65**	32	32	158,15	35,00	153,00	7,00	170,00	**MS1163**	T30	**–**	–
left hand												
1600271	**KGMEL2525M50**	25	25	139,25	42,75	125,25	6,84	150,25	**MS1162**	T25	**MS2002**	T25
3553454	**KGMEL2525M65**	25	25	138,15	35,00	129,00	14,00	150,00	**MS1163**	T30	**–**	–
1621086	**KGMEL3232P50**	32	32	159,25	42,75	145,25	–	170,25	**MS1162**	T25	**MS2002**	T25
3553456	**KGMEL3232P65**	32	32	158,15	35,00	153,00	7,00	170,00	**MS1163**	T30	**–**	–

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 8–10 Nm (71–88 in. lbs.).
M65 blade and clamp screw torque equals 18–20 Nm (159–177 in. lbs.).

- Best-in-class KM Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.





Right Hand

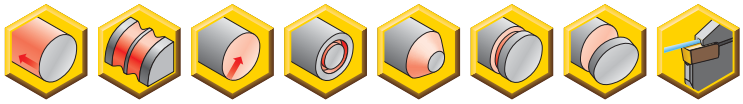
KM QUICK CHANGE

Modular Straight KM System with Coolant

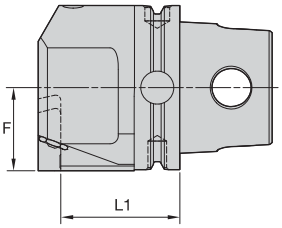
order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
5999790	**KM40TSKGMSR50C**	KM40TS	53,5	2.11	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000422	**KM50TSKGMSR65C**	KM50TS	53,5	2.11	22,0	.87	65	**MS1163**	T30	**–**	–
5999864	**KM50TSKGMSR50C**	KM50TS	58,5	2.30	23,0	.91	50	**MS1162**	T25	**MS2002**	T25
6000431	**KM63TSKGMSR65C**	KM63TS	58,5	2.30	30,0	1.18	65	**MS1163**	T30	**–**	–
5999948	**KM63TSKGMSR50C**	KM63TS	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
5999972	**KM63XMZKGMSR50CY**	KM63XMZ	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
6017695	**KM80TSKGMSR65C**	KM80TS	63,5	2.50	40,0	1.58	65	**MS1163**	T30	**–**	–
6000018	**KM80ATCKGMSR50C**	KM80ATC	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25
6000014	**KM80TSKGMSR50C**	KM80TS	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25
left hand											
5999861	**KM40TSKGMSL50C**	KM40TS	53,5	2.11	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000424	**KM50TSKGMSL65C**	KM50TS	53,5	2.11	22,0	.87	65	**MS1163**	T30	**–**	–
5999865	**KM50TSKGMSL50C**	KM50TS	58,5	2.30	23,0	.91	50	**MS1162**	T25	**MS2002**	T25
6000433	**KM63TSKGMSL65C**	KM63TS	58,5	2.30	30,0	1.18	65	**MS1163**	T30	**–**	–
5999949	**KM63TSKGMSL50C**	KM63TS	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
5999973	**KM63XMZKGMSLF50CY**	KM63XMZ	63,5	2.50	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
6017696	**KM80TSKGMSL65C**	KM80TS	63,5	2.50	40,0	1.58	65	**MS1163**	T30	**–**	–
6000019	**KM80ATCKGMSL50C**	KM80ATC	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25
6000015	**KM80TSKGMSL50C**	KM80TS	66,5	2.62	41,0	1.61	50	**MS1162**	T25	**MS2002**	T25

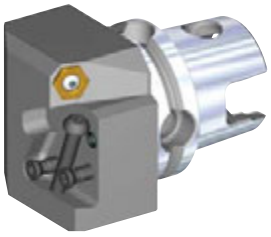
NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

- Best-in-class KM Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.



KM QUICK CHANGE

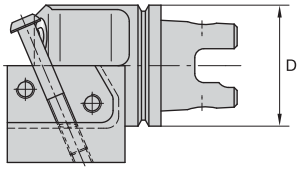


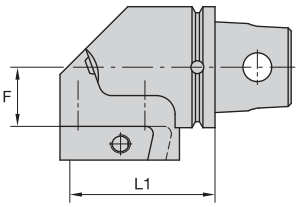

Right Hand

Modular End Mount KM System with Coolant • Metric

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
5999788	**KM40TSKGMER50C**	KM40TS	28,0	1.10	20,50	0.81	50	**MS1162**	T25	**MS2002**	T25
5999862	**KM50TSKGMER50C**	KM50TS	38,0	1.50	25,50	1.00	50	**MS1162**	T25	**MS2002**	T25
6000410	**KM50TSKGMER65C**	KM50TS	47,0	1.85	25,50	1.00	65	**MS1163**	T30	**–**	–
6000425	**KM63TSKGMER65C**	KM63TS	47,0	1.85	32,52	1.28	65	**MS1163**	T30	**–**	–
5999946	**KM63TSKGMER50C**	KM63TS	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6000434	**KM63XMZKGMER65CY**	KM63XMZ	47,0	1.85	32,50	1.28	65	**MS1163**	T30	**–**	–
5999950	**KM63XMZKGMER50CY**	KM63XMZ	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6017697	**KM80ATCKGMER65C**	KM80ATC	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000016	**KM80ATCKGMER50C**	KM80ATC	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25
6017693	**KM80TSKGMER65C**	KM80TS	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000012	**KM80TSKGMER50C**	KM80TS	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25
left hand											
5999789	**KM40TSKGMEL50C**	KM40TS	28,0	1.10	20,50	0.81	50	**MS1162**	T25	**MS2002**	T25
5999863	**KM50TSKGMEL50C**	KM50TS	38,0	1.50	25,50	1.00	50	**MS1162**	T25	**MS2002**	T25
6000421	**KM50TSKGMEL65C**	KM50TS	47,0	1.85	25,50	1.00	65	**MS1163**	T30	**–**	–
6000430	**KM63TSKGMEL65C**	KM63TS	47,0	1.85	32,52	1.28	65	**MS1163**	T30	**–**	–
5999947	**KM63TSKGMEL50C**	KM63TS	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6000436	**KM63XMZKGMELF65CY**	KM63XMZ	47,0	1.85	32,50	1.28	65	**MS1163**	T30	**–**	–
5999971	**KM63XMZKGMELF50CY**	KM63XMZ	48,0	1.89	32,50	1.28	50	**MS1162**	T25	**MS2002**	T25
6017698	**KM80ATCKGMEL65C**	KM80ATC	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000017	**KM80ATCKGMEL50C**	KM80ATC	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25
6017694	**KM80TSKGMEL65C**	KM80TS	57,0	2.24	40,50	1.59	65	**MS1163**	T30	**–**	–
6000013	**KM80TSKGMEL50C**	KM80TS	58,0	2.28	40,50	1.59	50	**MS1162**	T25	**MS2002**	T25

NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).



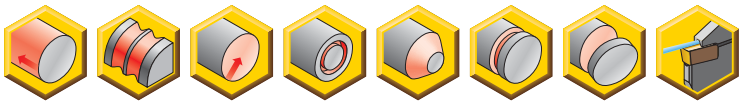


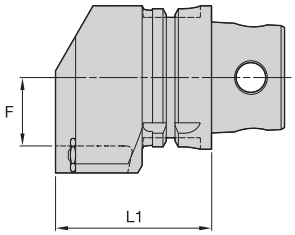
Modular End Mount KM-XMZ System with Coolant

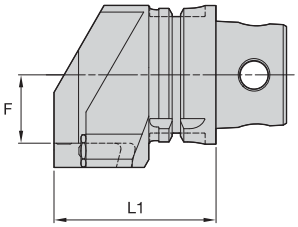
order number	catalog number	D	L1	F	blade screw (2 required)	clamp screw	Torx
right hand							
1756550	**KM63XMZKGMSR50Y**	2.48	2.50	1.22	**MS1162**	**MS2002**	T25
left hand							
1756574	**KM63XMZKGMSLF50Y**	2.48	2.50	1.22	**MS1162**	**MS2002**	T25
3588680	**KM63XMZKGMSLF65Y**	2.48	2.30	1.18	**MS1163**	**–**	–

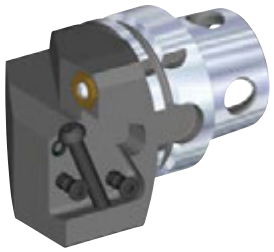
NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
Blade and clamp screw torque 71–88 in. lbs. (8–10 Nm).

- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.







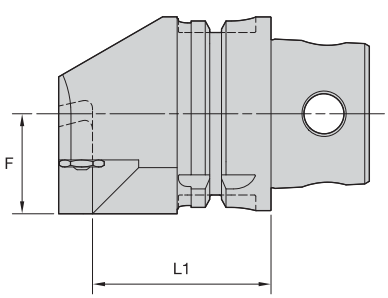


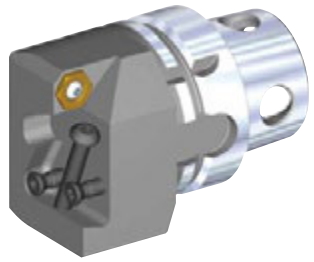
Right Hand

Modular Straight KM4X™ System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
5543560	**KM4X63KGMSR65C**	KM4X63	68,5	2.70	30,0	1.18	65	**MS1163**	T30	**–**	–
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	2.89	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25
left hand											
5543558	**KM4X63KGMSL65C**	KM4X63	68,5	2.70	30,0	1.18	65	**MS1163**	T30	**–**	–
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	2.89	31,0	1.22	50	**MS1162**	T25	**MS2002**	T25

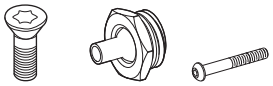
NOTE: KGMS..: Right-hand holder uses right-hand blades.
KGME..: Right-hand holder uses left-hand blades.
M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).
M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).





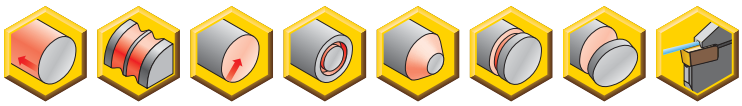
Right Hand

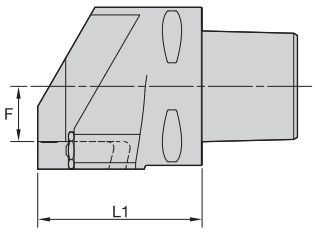
Modular End Mount KM4X™ System with Coolant

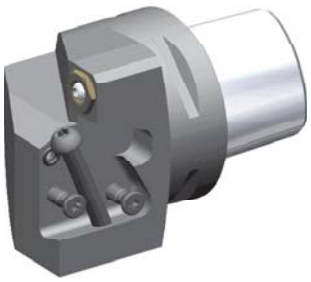


order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	cartridge size	blade screw	nozzle	clamp screw	kg	lbs
right hand												
5543555	**KM4X63KGMER65C**	KM4X63	57,0	2.244	32,5	1.280	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000404	**KM4X63KGMER50C**	KM4X63	58,0	2.283	32,5	1.280	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	2.894	31,0	1.220	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11
left hand												
5543553	**KM4X63KGMEL65C**	KM4X63	57,0	2.244	32,5	1.280	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000405	**KM4X63KGMEL50C**	KM4X63	58,0	2.283	32,5	1.280	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	2.894	31,0	1.220	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11

- Standard PSC Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.





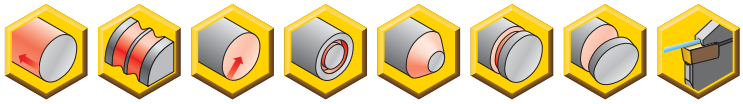


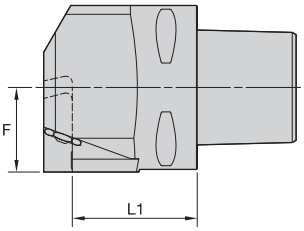
Right Hand

Modular Side PSC System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
6000028	**PSC40KGMSR50C**	PSC40	63,5	2.50	10,0	.39	50	**MS1162**	T25	**MS2002**	T25
5405654	**PSC50KGMSR65C**	PSC50	49,0	1.93	25,5	1.00	65	**MS1163**	T30	**–**	–
6000152	**PSC50KGMSR50C**	PSC50	63,5	2.50	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000464	**PSC63KGMSR65C**	PSC63	60,5	2.38	21,0	.83	65	**MS1163**	T30	**–**	–
6000211	**PSC63KGMSR50C**	PSC63	65,5	2.58	22,0	.87	50	**MS1162**	T25	**MS2002**	T25
6000468	**PSC80KGMSR65C**	PSC80	68,5	2.70	29,0	1.14	65	**MS1163**	T30	**–**	–
6000216	**PSC80KGMSR50C**	PSC80	73,5	2.89	30,0	1.18	50	**MS1162**	T25	**MS2002**	T25
left hand											
6000029	**PSC40KGMSL50C**	PSC40	63,5	2.50	10,0	.39	50	**MS1162**	T25	**MS2002**	T25
5405655	**PSC50KGMSL65C**	PSC50	49,0	1.93	25,5	1.00	65	**MS1163**	T30	**–**	–
6000153	**PSC50KGMSL50C**	PSC50	63,5	2.50	15,0	.59	50	**MS1162**	T25	**MS2002**	T25
6000465	**PSC63KGMSL65C**	PSC63	60,5	2.38	21,0	.83	65	**MS1163**	T30	**–**	–
6000213	**PSC63KGMSL50C**	PSC63	65,5	2.58	22,0	.87	50	**MS1162**	T25	**MS2002**	T25
6000469	**PSC80KGMSL65C**	PSC80	68,5	2.70	29,0	1.14	65	**MS1163**	T30	**–**	–
6000217	**PSC80KGMSL50C**	PSC80	73,5	2.89	30,0	1.18	50	**MS1162**	T25	**MS2002**	T25

- Standard PSC Quick-Change platform.
- Through the pocket coolant capable.
- Interchangeable blades for versatility and depth of cut.





Right Hand

Modular End Mount PSC System with Coolant

order number	catalog number	CSMS system size	L1 mm	L1 in	F mm	F in	blade size	blade screw	Torx	clamp screw	Torx
right hand											
6000026	**PSC40KGMER50C**	PSC40	33,0	1.30	20,5	.81	50	**MS1162**	T25	**MS2002**	T25
6000030	**PSC50KGMER50C**	PSC50	43,0	1.69	25,5	1.00	50	**MS1162**	T25	**MS2002**	T25
5405652	**PSC50KGMER65C**	PSC50	55,5	2.19	22,0	.87	65	**MS1163**	T30	**–**	–
6000159	**PSC63KGMER50C**	PSC63	48,0	1.89	32,5	1.28	50	**MS1162**	T25	**MS2002**	T25
6000462	**PSC63KGMER65C**	PSC63	49,0	1.93	32,5	1.28	65	**MS1163**	T30	**–**	–
6000466	**PSC80KGMER65C**	PSC80	57,0	2.24	40,5	1.59	65	**MS1163**	T30	**–**	–
6000214	**PSC80KGMER50C**	PSC80	58,0	2.28	40,5	1.59	50	**MS1162**	T25	**MS2002**	T25
left hand											
6000027	**PSC40KGMEL50C**	PSC40	33,0	1.30	20,5	.81	50	**MS1162**	T25	**MS2002**	T25
6000151	**PSC50KGMEL50C**	PSC50	43,0	1.69	25,5	1.00	50	**MS1162**	T25	**MS2002**	T25
5405653	**PSC50KGMEL65C**	PSC50	55,5	2.19	22,0	.87	65	**MS1163**	T30	**–**	–
6000160	**PSC63KGMEL50C**	PSC63	48,0	1.89	32,5	1.28	50	**MS1162**	T25	**MS2002**	T25
6000463	**PSC63KGMEL65C**	PSC63	49,0	1.93	32,5	1.28	65	**MS1163**	T30	**–**	–
6000467	**PSC80KGMEL65C**	PSC80	57,0	2.24	40,5	1.59	65	**MS1163**	T30	**–**	–
6000215	**PSC80KGMEL50C**	PSC80	58,0	2.28	40,5	1.59	50	**MS1162**	T25	**MS2002**	T25

Top Notch™

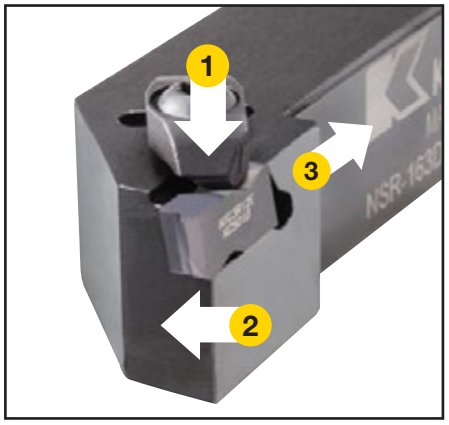
Grooving Tools and Beyond™ Inserts for Your Shallow Groove and Turn Operations

Primary Application

Top Notch Grooving is the proven solution for high productivity. The Top Notch system provides consistent tool performance, accurate indexing, and superior clamping to provide excellent surface finishing and superior tool life.

Features and Benefits

- The Beyond PVD coated grades are designed to cut a variety of workpiece materials.
- Rigid clamping securely locks insert in place through the toughest cuts.
- Versatile design enables one system to handle O.D. and I.D. grooving, face grooving, back turning, undercutting, and even threading operations.
- Chip control inserts provide excellent chip evacuation in grooving, and offer better chip control in multidirectional turning.



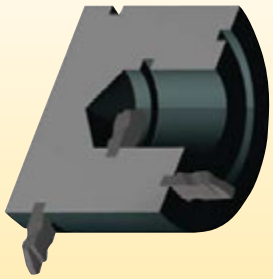
Our rigid clamping design prevents insert movement during high-feed rate applications. This benefit ensures excellent surface finish, improved productivity, and superior tool life and promotes perfect concentricity. The rugged bridge clamp generates locking forces in three directions to provide superior resistance to side thrust and tangential forces.

Step 1 • Select system based on the required groove depth

What you need to know

- Groove depth, width, and profile.
- Material to be machined.
- Application to be performed (face, O.D., or I.D. grooving).
- Toolholder requirements (e.g., KM™, square shank, right/left).

Top Notch™

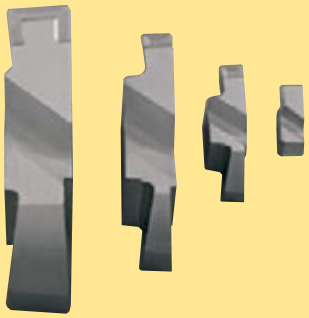


Grooving

For grooving depth ≤1.5x grooving width, review system capability chart and proceed to Step 2.

Top Notch Grooving for Internal, External, and Face Grooving Applications

system capabilities		minimum in (mm)	maximum in (mm)
O.D./I.D. grooving	width	0.31 (0,79)	.375 (9,53)
	depth	.050 (1,27)	.375 (9,53)
face grooving	width	.125 (3,18)	.375 (9,53)
	depth	.150 (3,81)	.250 (6,35)
internal grooving	diameter	.440 (11,2)	–
face grooving diameter	standard	.940 (23,9)	–
	deep	1.875 (47,6)	–
deep O.D./I/D. grooving	width	.062 (1,57)	.250 (6,35)
	depth	.125 (3,18)	.500 (12,70)
deep face grooving	width	.125 (3,18)	.250 (6,35)
	depth	.250 (6,35)	.500 (12,70)



Step 2 • Select toolholder based on the application

NOTE: Toolholders are available as conventional square shank versions as well as Quick-Change versions. The insert size must match the gage insert of your toolholder selection.

Step 3 • Select chipbreaker style and feed rate

Chipbreaker and Feed Rates • in/rev (mm/rev)

workpiece material and application	P	M	K	N	S	H
first choice	**NG-K** .003–.011 (0,08–0,28)	**NG-K** .0025–.008 (0,07–0,20)	**NG** .004–.012 (0,01–0,30)	**NGP** .004–.012 (0,01–0,30)	**NG-K** .0025–.008 (0,07–0,20)	**NG-ST** CBN tipped .002–.004 (0,05–0,10)
alternate choice	**NG** .004–.012 (0,10–0,30)	**NGP** .004–.009 (0,10–0,23)	**NG-K** .003–.011 (0,08–0,28)	**NG-K** .003–.012 (0,08–0,30)	**NGP** .004–.008 (0,10–0,20)	–

_K chipbreaker inserts	flat-top inserts	positive rake inserts

Step 4 • Select grade and speed

Recommendations for Grade

Starting speed chart shown under “Application Guide”

machining condition	workpiece material P	M	K	N	S	H
high-performance for optimal conditions (clean cuts, good machine condition, higher speed capability)	**KCP10B** 400–1475 (120–450)	**KCU10** 400–850 (120–260)	**KCK20B** 500–1800 (150–550)	**KD1425** 500–5000 (150–1500)	**KCU10** 50–550 (15–170)	**KB5625** 150–760 (45–230)
general purpose (first choice for general machining)	**KCP25B** 350–1200 (110–365)	**KCU25** 400–800 (120–245)	**KCU10** 200–800 (60–245)	**KCU10** 400–3200 (120–975)	**KCU10** 50–450 (15–135)	**KB5625** 250–500 (80–150)
unfavorable conditions (roughing, poor machine condition, interrupted cuts, low speed, I.D. grooving)	**KCU25** 280–880 (85–270)	**KCU25** 300–700 (90–210)	**KCU25** 160–640 (50–195)	**K313** 120–2000 (40–610)	**KCU25** 25–350 (8–110)	**KB1630** 150–400 (45–120)

Step 5 • Select insert and holder from catalog page

NOTE: The insert size must match the gage insert size of your toolholder selection.

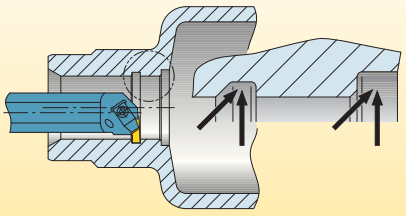
Example for Top Notch • Grooving

Material ..... low-alloyed steel
Groove depth ..... .079" (2mm)
Groove width ..... .118" (3mm)
Operation..... I.D. cut, limited speed capability, plunge groove and chamfer

Recommendation

Insert NG2M300RK
Grade KC5025
Insert width ..... .118" (3mm)
Insert size 2

Toolholder ..... A20QNNTOL2 (metric)
A12NEL2 (inch)
Gage insert N.2R



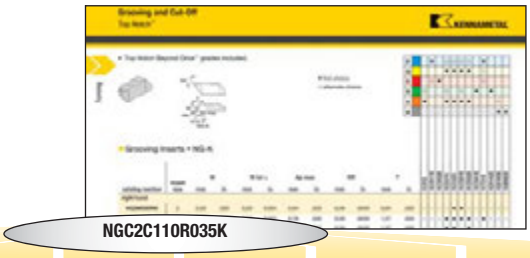
Speed: 400 SFM (120 m/min)
Feed: .006 in/rev (0,15 mm/rev)

Congratulations!

You have successfully maximized your productivity by selecting the best Top Notch insert geometry, grade, and cutting specifications for your application!

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



Inch

N	G	C	2	C	110	R	035	K	
Type of Insert	Insert Style	Additional Information	Insert Size	Size Identification	Groove Size**	Hand of Insert	Cutting Depth	Chipbreaker Design	Definition of Inserts
N = Top Notch		**D** = Deep grooving **P** = Positive **C** = Groove and chamfer		**M** = Metric insert groove width **C** = Circlip groove insert width is nominal circlip size ☐ = Blank indicates inch width insert		**L** = Left hand **R** = Right hand	Shown for groove and chamfer inserts in .0004" increments.	**E** = Hone only **K** = Standard chip control **S** = T Land and Hone **ST** = STD Tip (PcBN)	Groove size "J" or "L" for Poly-Vee inserts "I" indicates internal face grooving

B = Blank (for special forms)
F = Face grooving
G = Grooving
P = Back
R = Full radius
U = Undercutting (or relieving)
V = Poly-Vee

insert number	W1 (in)	W1 (mm)
1	.100	2,54
2	.150	3,81
3	.195	4,95
4	.255	6,98
5	.380	9,65
6	.383	9,73

Position pertains to groove width for F-, G-, and U-style inserts, radii for R-style grooving inserts, and circlip size for groove and chamfer inserts. Dimension in .001" or 0,01mm.

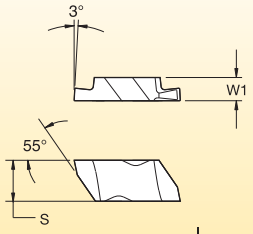
Inch example: 1/32" width groove or radius equals "031" catalog position number.

Metric example: 3,25mm width groove or radius equals "325" catalog position number.

Width Tolerance: ±.001" (±0,025mm) unless otherwise specified.

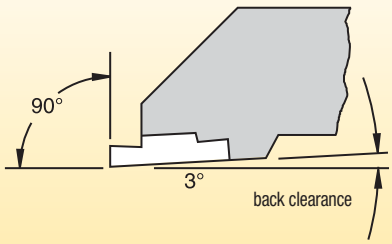
*Kennametal proprietary identification system.
**Omit position for Top Notch NB-style blanks.

Top Notch Threading and Grooving Insert Dimensions



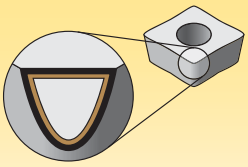
insert size	S mm	S inch	W1 mm	W1 inch
1	2,54	.100	2,54	.100
2	5,56	.219	3,81	.150
3	8,74	.344	4,95	.195
4	11,51	.453	6,48	.255
5	17,48	.688	9,65	.380
6	11,51	.453	9,73	.383
8	7,93	.312	11,13	.438

Top Notch Holder Design



NOTE: Holders are designed to locate insert inclined to 3° to provide back clearance down open side.

Kennametal and Top Notch tooling technology combine to bring you the very best threading and grooving system available in the world today.

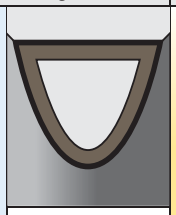
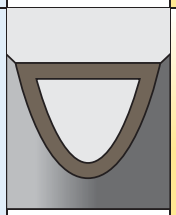
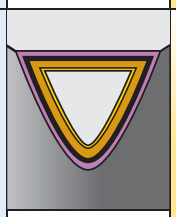
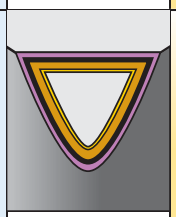
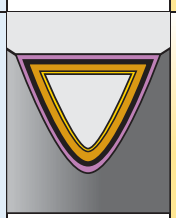


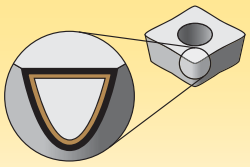
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

Grades

Coating	Grade Description	05	10	15	20	25	30	35	40	45
KCU10  —	**Composition:** An advanced multilayer PVD coating over a very deformation-resistant unalloyed carbide substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU10™ grade is ideal for finishing to general machining of most workpiece materials at a wide range of speed and feed capabilities. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and high-temp alloys with improved edge toughness, notch resistance, and higher cutting speed/feed capability.		P, K	P, K, N	P, K, N					
KCU25  —	**Composition:** An advanced PVD grade with hard AlTiN coating and fine-grain unalloyed substrate. The new and improved coating improves edge stability with wide range speed and feed capabilities. **Application:** The KCU25™ grade is ideal for general machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials in a wide range of speeds and feeds with improved edge toughness for interrupted cut and high feed rates.				P, K, N, S	P, K, N, S	P, K, N, S			
KCP10B  —	**Composition:** A specially engineered cobalt-enriched carbide grade with thick MTCVD TiCN-Al_2O_3-TiOCN coating for maximum wear resistance. **Application:** An excellent finishing to medium machining grade for a variety of workpiece materials, including most steels, ferritic, martensitic, and PH stainless steels, and cast irons. The cobalt-enriched substrate offers a balanced combination of deformation resistance and edge toughness, while the thick coating layers offer outstanding abrasion resistance and crater wear resistance for high-speed machining. Smooth coating provides resistance to edge build-up and microchipping and produces excellent surface finishes.		P	P	P	K	K	K		
KCP25B  —	**Composition:** A tough cobalt-enriched carbide grade with a multilayer MTCVD TiCN-Al_2O_3-TiOCN coating with superior interlayer adhesion. **Application:** Best general-purpose turning grade for most steels and ferritic and martensitic stainless steels. The substrate design ensures adequate deformation resistance with excellent insert edge strength. Coating layers offer good wear resistance over a wide range of machining conditions and the post-coat treatment minimizes microchipping and improves coating adhesion to substrate leading to long tool life and improved workpiece finishes.		P	P	P	K	K	K		
KCK20B  —	**Composition:** A specially toughened MTCVD TICN-Al_2O_3-TiOCN coating over a wear-resistant substrate. **Application:** Specifically engineered to maximize coating adhesion and edge strength making this grade ideal in wet interrupted cutting of gray and ductile irons. It can be used in a wide range of applications from finishing to roughing to maximize productivity wherever strength and reliability are needed.		P	P	K	K	K			



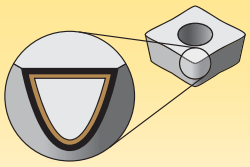
Coatings provide high-speed capability and are engineered for finishing to light roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ⟷ toughness

Grades

Coating	Grade Description		05	10	15	20	25	30	35	40	45
K313	**Composition:** A hard, low binder content, unalloyed WC/Co fine-grain grade. **Application:** Exceptional edge wear resistance combined with very high strength for machining titanium, cast irons, austenitic stainless steels, non-ferrous metals, non-metals, and most high-temp alloys. Superior thermal deformation and depth-of-cut notch resistance. The grain structure is well controlled for minimal pits and flaws, which contributes to long, reliable service.										
		M									
		K									
		N									
		S									
KC5010	**Composition:** An advanced PVD AlTiN coating over a very deformation-resistant unalloyed carbide substrate. **Application:** The KC5010™ grade is ideal for finishing to general machining of most workpiece materials at higher speeds. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and high-temp alloys under stable conditions. It also performs well machining hardened and short chipping materials.	P									
		M									
		K									
		N									
		S									
		H									
KC5025	**Composition:** An advanced PVD-AlTiN-coated grade with a tough, ultra-fine-grain unalloyed substrate. **Application:** For general-purpose machining of most steels, stainless steels, high-temp alloys, titanium, irons, and non-ferrous materials. Speeds may vary from low to medium and will handle interruptions and high feed rates.	P									
		M									
		K									
		N									
		S									



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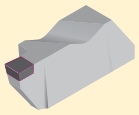
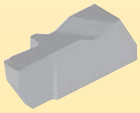
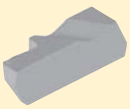
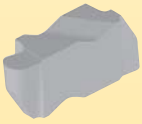
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

wear resistance ← → toughness

Grades

Coating	Grade Description		05	10	15	20	25	30	35	40	45
KT315	**Composition:** A multilayer PVD TiN/TiCN/TiN-coated cermet turning grade. **Application:** Ideal for high-speed finishing to medium machining of most carbon and alloy steels and stainless steels. Performs very well in cast and ductile iron applications, too. Provides long and consistent tool life and will produce excellent workpiece finishes.	P									
		K									
KB1630	**Composition:** An uncoated high content PcBN grade. PcBN tips are brazed onto a carbide insert. **Application:** Designed for roughing to finishing in interrupted cuts on hardened steels (>45 HRC). It can also be applied on gray cast iron, chilled irons, high chrome alloyed steels, high temp alloys and sintered powder metals. The tipped PcBN inserts are available in a wide range of insert styles, including Top Notch™ and Screw-On geometries.	K									
		S									
		H									
KB5625	**Composition:** A medium content PcBN with a PVD-TiN/AlTiN coating for added wear resistance. **Application:** Designed for roughing to finishing of hardened steels (>45 HRC). Use on bearing steels, hot and cold work steels, die steels, case hardened steels, carburized and nitrided irons, and some hard coatings.	H									
KD1425	**Composition:** A multimodal PCD grade with a range of grain sizes brazed onto a carbide substrate. **Application:** Engineered for extreme abrasion resistance, combined with good edge strength for demanding applications. An ideal choice for high-silicon aluminum alloys, bi-metallic (AL/GCI) materials, MMC, carbon-fiber reinforced plastics, and other abrasive non-metallic materials.	N									

insert style	application	rake angle	page(s)
NG	• General-purpose grooving. • O-ring grooving. • Circlip grooving.	neutral	C170
NG-K	• Chip control geometry. • General-purpose grooving. • O-ring grooving. • Circlip grooving. • Light turning.	10° positive	C162
NG-ST 	• Hard turning.	neutral	C170
NGC-K	• Combined groove and chamfered edge break in one positive plunge with chip control. • Designed for DIN 471/472 standard circlip grooves.	10° positive	C168
NGD	• Deep grooving.	neutral	C171
NGD-K 	• Chip control geometry. • Deep grooving. • Light turning.	10° positive	C165
NGP	• General-purpose grooving. • O-ring grooving. • Circlip grooving.	5° positive	C168
NF	• Face grooving. • Additional side clearance.	neutral	C175
NF-K	• Face grooving with chip control. • Additional side clearance.	10° positive	C173
NFD-K	• Deep face grooving with chip control. • Additional side clearance.	10° positive	C174

insert style	application	rake angle	page(s)
NFD-KI 	• Internal deep face grooving with chip control. • For use in boring bars for internal face grooves.	10° positive	C174
NP-K NPD-K	• Turning. • Back turning positive. • Profiling with chip control.	10° positive	C167
NR	• Full radius grooving. • Turning and profiling.	neutral	C172
NR-K	• Chip control geometry. • Full radius grooving, turning, and profiling.	10° positive	C166
NRD	• Deep grooving. • Full radius end-form.	neutral	C173
NRP 	• Full radius grooving. • Light-turning profiling.	5° positive	C169
NU	• Undercutting.	neutral	C175
NV	• Poly-Vee grooving.	neutral	C176
NB/NBD	• Blanks. • Blanks for deep grooving. • Available in uncoated grades only.	—	C176–C177

NOVO KNOWS CAD/CAM

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The concern is that assumptions are made, and only partial tooling information is entered.

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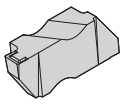
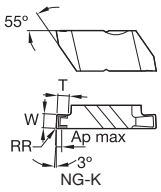




● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Chip Control

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NG2M050RK	2	0,50	.020	0,03	.001	0,64	.025	0,09	.0035	0,64	.025	●	●	–	●	–	–	●	–	–	–	–	–
NG2031RK	2	0,79	.031	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	●	●	●	–	–	–
NG2M080RK	2	0,80	.032	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	–	●	–	–	–	–
NG2M100RK	2	1,00	.039	0,03	.001	0,76	.030	0,09	.0035	1,28	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2047RK	2	1,19	.047	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	●	●	●	–	–	–
NG2M120RK	2	1,20	.047	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2M140RK	2	1,40	.055	0,03	.001	0,76	.030	0,09	.0035	1,28	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2M150RK	2	1,50	.059	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG2062RK	2	1,56	.062	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	●	–	–	–
NG2M170RK	2	1,70	.067	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2M175RK	2	1,75	.069	0,03	.001	1,09	.043	0,19	.0075	2,81	.110	–	●	–	●	–	–	–	–	–	–	–	–
NG2M195RK	2	1,95	.077	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2M200RK	2	2,00	.079	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	●	–	–	–
NG2M220RK	2	2,20	.087	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG2M225RK	2	2,25	.088	0,03	.001	1,09	.043	0,19	.0075	2,81	.110	●	●	●	●	–	–	–	●	–	–	–	–
NG2094RK	2	2,39	.094	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	●	–	–	–
NG2M250RK	2	2,50	.098	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG2M275RK	2	2,75	.108	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	–	●	–	–	–	–
NG2M300RK	2	3,00	.118	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2125RK	2	3,18	.125	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	●	–	–	–
NG2M320RK	2	3,20	.126	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	–	–	●	–	–	–	–	–	–	–	–
NG2M325RK	2	3,25	.128	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG3M100RK	3	1,00	.039	0,03	.001	0,76	.030	0,20	.0080	1,91	.075	–	●	–	●	–	–	–	●	–	–	–	–
NG3047RK	3	1,19	.047	0,03	.001	0,76	.030	0,19	.0075	1,91	.075	●	●	●	●	–	–	●	●	–	–	–	–
NG3M120RK	3	1,20	.047	0,03	.001	0,76	.030	0,19	.0075	1,91	.075	●	●	●	●	–	–	–	●	–	–	–	–
NG3M150RK	3	1,50	.059	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–
NG3062RK	3	1,58	.062	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	●	●	●	–	–	–
NG3M175RK	3	1,75	.069	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–
NG3072RK	3	1,83	.072	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	●	●	–	–	–	–
NG3078RK	3	1,98	.078	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	●	●	–	–	–	–
NG3M200RK	3	2,00	.079	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	●	–	–	–
NG3M220RK	3	2,20	.087	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–
NG3M225RK	3	2,24	.088	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	●	●	–	–	–	–
NG3094RK	3	2,39	.094	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	–	–	–	●	●	●	–	–	–
NG3M250RK	3	2,50	.098	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3M275RK	3	2,75	.108	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG3M300RK	3	3,00	.118	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG3125RK	3	3,18	.125	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	●	–	–	–
NG3M320RK	3	3,20	.126	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3M325RK	3	3,25	.128	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3M350RK	3	3,50	.138	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3156RK	3	3,96	.156	0,03	.001	2,92	.115	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG3M400RK	3	4,00	.157	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–

(continued)

(Groove and Turn • Chip Control — continued)

● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
NG3M425RK	3	4,25	.167	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	●	●	●	●	–	–	–	●	–	–	–	–
NG3M450RK	3	4,50	.177	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	–	●	–	●	–	–	–	–	–	–	–	–
NG3189RK	3	4,80	.189	0,03	.001	2,92	.115	0,57	.0225	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG4M300RK	4	3,00	.118	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	–	–	–	–	–
NG4125RK	4	3,18	.125	0,03	.001	1,06	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	–	–	–	–	–
NG4M350RK	4	3,50	.138	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	–	●	–	●	–	–	–	–	–	–	–	–
NG4M400RK	4	4,00	.158	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	–	●	●	●	–	–	●	●	–	–	–	–
NG4M450RK	4	4,50	.177	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	–	●	–	●	–	–	–	–	–	–	–	–
NG4189RK	4	4,80	.189	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	●	●	●	●	–	–	●	●	–	–	–	–
NG4M500RK	4	5,00	.197	0,03	.001	2,92	.115	0,32	.0125	6,35	.250	●	●	●	●	–	–	–	–	–	–	–	–
NG4M550RK	4	5,50	.217	0,03	.001	3,81	.150	0,57	.0225	6,35	.250	–	–	–	●	–	–	–	–	–	–	–	–
NG4M600RK	4	6,00	.236	0,03	.001	3,81	.150	0,57	.0225	6,35	.250	–	●	–	●	–	–	–	–	–	–	–	–
NG4250RK	4	6,35	.250	0,03	.001	3,81	.150	0,57	.0225	6,35	.250	–	●	●	●	–	–	●	●	–	–	–	–
left hand																							
NG2M050LK	2	0,50	.020	0,03	.001	0,64	.025	0,09	.0035	0,64	.025	●	●	–	●	–	–	●	–	–	–	–	–
NG2031LK	2	0,79	.031	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2M080LK	2	0,80	.032	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	–	●	–	–	–	–
NG2M100LK	2	1,00	.039	0,03	.001	0,76	.030	0,08	.0035	1,27	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2047LK	2	1,19	.047	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2M120LK	2	1,20	.047	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	●	●	–	–	–	–
NG2M140LK	2	1,40	.055	0,03	.001	0,76	.030	0,09	.0035	1,27	.050	●	●	●	●	–	–	–	●	–	–	–	–
NG2M150LK	2	1,50	.059	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG2062LK	2	1,58	.062	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2M170LK	2	1,70	.067	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	●	●	–	–	●	●	–	–	–	–
NG2M175LK	2	1,75	.069	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG2M195LK	2	1,95	.077	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	●	●	–	–	●	–	–	–	–	–
NG2M200LK	2	2,00	.079	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2M220LK	2	2,20	.087	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	–	–	–	–	–
NG2M225LK	2	2,25	.088	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	–	●	–	–	–	–
NG2094LK	2	2,39	.094	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2M250LK	2	2,50	.098	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	●	–	–	–	–
NG2M275LK	2	2,75	.108	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	–	●	–	–	●	–	–	–	–	–
NG2M300LK	2	3,00	.118	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2125LK	2	3,18	.125	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	●	●	●	●	–	–	●	●	–	–	–	–
NG2M325LK	2	3,25	.128	0,03	.001	1,09	.043	0,19	.0075	2,79	.110	–	●	–	●	–	–	–	–	–	–	–	–
NG3M100LK	3	1,00	.039	0,03	.001	0,76	.030	0,20	.0080	1,91	.075	–	●	–	●	–	–	–	●	–	–	–	–
NG3047LK	3	1,19	.047	0,03	.001	0,76	.030	0,19	.0075	1,90	.075	●	●	●	●	–	–	●	●	–	–	–	–
NG3M120LK	3	1,20	.047	0,03	.001	0,76	.030	0,19	.0075	1,91	.075	●	●	●	●	–	–	–	●	–	–	–	–
NG3M150LK	3	1,50	.059	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–
NG3062LK	3	1,58	.062	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	–	–	–	–	●	●	–	–	–	–
NG3M175LK	3	1,75	.069	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–
NG3072LK	3	1,83	.072	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	●	●	–	–	–	–
NG3078LK	3	1,98	.078	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	●	●	–	–	–	–
NG3M200LK	3	2,00	.079	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–

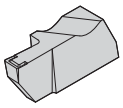
(continued)

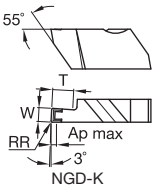
(Groove and Turn • Chip Control — continued)

● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
NG3M220LK	3	2,20	.087	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	–	●	–	●	–	–	–	●	–	–	–	–
NG3M225LK	3	2,25	.089	0,03	.001	1,02	.040	0,19	.0075	2,39	.094	●	●	●	●	–	–	–	–	–	–	–	–
NG3094LK	3	2,39	.094	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	●	–	–	–
NG3M250LK	3	2,50	.098	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3M275LK	3	2,75	.108	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	–	●	–	–	–	–
NG3M300LK	3	3,00	.118	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG3125LK	3	3,18	.125	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG3M320LK	3	3,20	.126	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3M325LK	3	3,25	.128	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3M350LK	3	3,50	.138	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	–	●	–	●	–	–	–	●	–	–	–	–
NG3156LK	3	3,96	.156	0,03	.001	2,92	.115	0,19	.0075	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG3M400LK	3	4,00	.158	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	●	●	●	●	–	–	–	●	–	–	–	–
NG3M425LK	3	4,25	.167	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	●	●	●	●	–	–	–	–	–	–	–	–
NG3M450LK	3	4,50	.177	0,03	.001	2,92	.115	0,32	.0125	3,81	.150	–	●	–	●	–	–	–	–	–	–	–	–
NG3189LK	3	4,80	.189	0,03	.001	2,92	.115	0,57	.0225	3,81	.150	●	●	●	●	–	–	●	●	–	–	–	–
NG4M300LK	4	3,00	.118	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	●	–	–	–	–	–	–	–	–
NG4125LK	4	3,18	.125	0,03	.001	1,06	.400	0,19	.0075	3,81	.150	●	●	●	●	–	–	–	–	–	–	–	–
NG4M320LK	4	3,20	.126	0,03	.001	1,02	.040	0,19	.0075	3,81	.150	–	–	–	●	–	–	–	–	–	–	–	–
NG4M350LK	4	3,50	.138	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	–	●	–	●	–	–	–	–	–	–	–	–
NG4M400LK	4	4,00	.158	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	●	●	●	●	–	–	–	–	–	–	–	–
NG4M450LK	4	4,50	.177	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	–	●	–	●	–	–	–	●	–	–	–	–
NG4189LK	4	4,80	.189	0,03	.001	2,92	.115	0,57	.0225	6,35	.250	●	●	●	●	–	–	●	●	–	–	–	–
NG4M500LK	4	5,00	.197	0,03	.001	2,92	.115	0,32	.0125	6,35	.250	●	●	●	●	–	–	●	–	–	–	–	–
NG4M550LK	4	5,50	.217	0,03	.001	3,81	.150	0,57	.0225	6,35	.250	–	–	–	●	–	–	–	–	–	–	–	–
NG4M600LK	4	6,00	.236	0,03	.001	3,81	.150	0,57	.0225	6,35	.250	–	●	–	●	–	–	–	–	–	–	–	–
NG4250LK	4	6,35	.250	0,03	.001	3,81	.150	0,57	.0225	6,35	.250	●	●	●	●	–	–	●	●	–	–	–	–





● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Deep Grooving • Chip Control

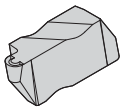
catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NGD2M150RK	2	1,50	.059	0,03	0.001	1,09	.043	0,19	.0075	4,06	.160	●	●	–	–	–	–	●	●	–	–	–	–
NGD2M200RK	2	2,00	.079	0,03	0.001	1,09	.043	0,19	.0075	5,08	.200	●	●	–	–	–	–	●	●	–	–	–	–
NGD2M250RK	2	2,50	.098	0,03	0.001	1,09	.043	0,19	.0075	5,08	.200	●	●	–	–	–	–	–	●	–	–	–	–
NGD3062RK	3	1,58	.062	0,03	0.001	1,02	.040	0,19	.0075	3,18	.125	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M200RK	3	2,00	.079	0,03	0.001	1,02	.040	0,19	.0075	4,06	.160	●	●	–	–	–	–	●	●	–	–	–	–
NGD3094RK	3	2,39	.094	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M250RK	3	2,50	.098	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	●	–	–	–	–	●	●	–	–	–	–
NGD3M300RK	3	3,00	.118	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD3125RK	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M400RK	3	4,00	.157	0,03	0.001	2,92	.115	0,32	.0125	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD3189RK	3	4,80	.189	0,03	0.001	2,92	.115	0,58	.0225	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD4125RK	4	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD4189RK	4	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	9,53	.375	●	●	–	–	–	–	●	●	–	–	–	–
NGD4M550RK	4	5,50	.217	0,03	0.001	3,81	.150	0,57	.0225	12,70	.500	–	●	–	–	–	–	–	–	–	–	–	–
NGD4250RK	4	6,35	.250	0,03	0.001	3,81	.150	0,57	.0225	12,70	.500	●	●	–	–	–	–	●	●	–	–	–	–
left hand																							
NGD2M150LK	2	1,50	.059	0,03	0.001	1,09	.043	0,19	.0075	4,06	.160	●	●	–	–	–	–	–	●	–	–	–	–
NGD2M200LK	2	2,00	.079	0,03	0.001	1,09	.043	0,19	.0075	5,08	.200	●	●	–	–	–	–	●	●	–	–	–	–
NGD2M250LK	2	2,50	.098	0,03	0.001	1,09	.043	0,19	.0075	5,08	.200	●	●	–	–	–	–	●	●	–	–	–	–
NGD3062LK	3	1,57	.062	0,03	0.001	1,02	.040	0,19	.0075	3,18	.125	●	●	–	–	–	–	●	●	–	–	–	–
NGD3M200LK	3	2,00	.079	0,03	0.001	1,02	.040	0,19	.0075	4,06	.160	–	●	–	–	–	–	–	●	–	–	–	–
NGD3094LK	3	2,39	.094	0,03	0.001	1,02	.040	0,19	.0075	6,34	.250	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M250LK	3	2,50	.098	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	●	–	–	–	–	–	●	–	–	–	–
NGD3M300LK	3	3,00	.118	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD3125LK	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M350LK	3	3,50	.138	0,03	0.001	2,92	.115	0,32	.0125	6,35	.250	–	●	–	–	–	–	–	●	–	–	–	–
NGD3M400LK	3	4,00	.157	0,03	0.001	2,92	.115	0,32	.0125	6,35	.250	●	●	–	–	–	–	–	●	–	–	–	–
NGD3189LK	3	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD4125LK	4	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NGD4M400LK	4	4,00	.157	0,03	0.001	2,92	.115	0,57	.0225	9,53	.375	–	●	–	–	–	–	–	–	–	–	–	–
NGD4189LK	4	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	9,53	.375	●	●	–	–	–	–	●	●	–	–	–	–
NGD4M500LK	4	5,00	.197	0,03	0.001	2,92	.115	0,57	.0225	12,70	.500	–	●	–	–	–	–	–	–	–	–	–	–
NGD4250LK	4	6,35	.250	0,03	0.001	3,80	.150	0,57	.0225	12,70	.500	●	●	–	–	–	–	–	●	–	–	–	–

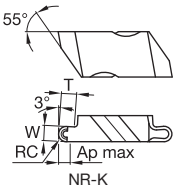
NOTE: Inserts have one cutting edge. Right-hand insert shown; left-hand insert is mirror image.
The following inserts are double ended: NGD3062RK, NGD4125RK, NGD3062LK, and NGD4125LK.

- Full radius inserts with chip control.

● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	





Groove and Turn • Full Radius • Chip Control

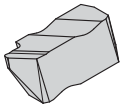
catalog number	insert size	W mm	W in	Ap max mm	Ap max in	RC mm	RC in	T mm	T in
right hand									
NR3031RK	3	1,57	.062	1,97	.078	0,79	.0310	2,39	.094
NR3047RK	3	2,39	.094	1,91	.075	1,19	.0470	3,81	.150
NR3062RK	3	3,18	.125	2,92	.115	1,59	.0625	3,81	.150
NR3078RK	3	3,97	.156	2,54	.100	1,98	.0780	3,81	.150
NR4062RK	4	3,18	.125	2,92	.115	1,59	.0625	3,81	.150
NR4094RK	4	4,79	.188	3,81	.150	2,39	.0940	6,35	.250
NR4125RK	4	6,35	.250	3,81	.150	3,18	.1250	6,35	.250
left hand									
NR3031LK	3	1,58	.062	1,98	.078	0,79	.0310	2,39	.094
NR3047LK	3	2,39	.094	1,91	.075	1,19	.0470	3,81	.150
NR3062LK	3	3,18	.125	2,92	.115	1,59	.0625	3,81	.150
NR3078LK	3	3,96	.156	2,54	.100	1,98	.0780	3,81	.150
NR4062LK	4	3,18	.125	2,92	.115	1,59	.0625	3,81	.150
NR4094LK	4	4,79	.188	3,81	.150	2,39	.0940	6,35	.250
NR4125LK	4	6,36	.250	3,81	.150	3,18	.1250	6,35	.250

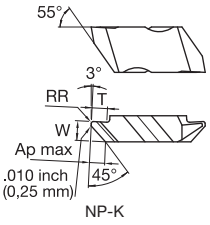
●	●	–	–	–	–	●	●	–	–	–	–	–	–
●	●	–	–	–	–	●	●	–	–	–	–	–	–
●	●	–	–	–	–	●	●	–	–	–	–	–	–
●	●	–	–	–	–	●	–	–	–	–	–	–	–
●	●	–	–	–	–	●	–	–	–	–	–	–	–
●	●	–	–	–	–	●	–	–	–	–	–	–	–
●	●	–	–	–	–	●	●	–	–	–	–	–	–
●	●	–	–	–	–	●	●	–	–	–	–	–	–
●	●	–	–	–	–	●	●	–	–	–	–	–	–
●	●	–	–	–	–	●	●	–	–	–	–	–	–
–	●	–	–	–	–	●	●	–	–	–	–	–	–
●	●	–	–	–	–	●	–	–	–	–	–	–	–
●	●	–	–	–	–	●	●	–	–	–	–	–	–
●	●	–	–	–	–	●	–	–	–	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.

P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

● first choice
○ alternate choice





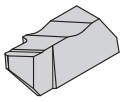
NP-K

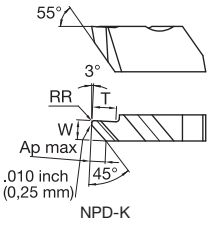
Groove and Profile • Chip Control

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NP2002RK	2	3,82	.150	0,03	0.001	—	—	0,25	.0100	2,81	.110	●	●	–	–	–	–	●	●	–	–	–	–
NP2012RK	2	3,82	.150	0,03	0.001	—	—	0,25	.0100	2,81	.110	–	●	–	–	–	–	–	–	–	–	–	–
NP3002RK	3	4,95	.195	0,03	0.001	—	—	0,25	.0100	5,08	.200	●	●	–	–	–	–	●	–	–	–	–	–
NP3012RK	3	4,95	.195	0,03	0.001	—	—	0,25	.0100	5,08	.200	–	●	–	–	–	–	–	●	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.
Tolerance on W ± .005" (± 0,13mm)

• Profiling deep positive inserts.



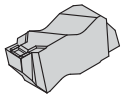


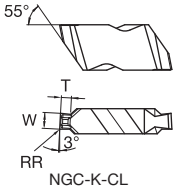
NPD-K

Groove and Profile • Deep Grooving • Chip Control

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NPD2002RK	2	3,68	.145	0,13	0.005	—	—	0,09	.0035	5,08	.200	–	●	–	–	–	–	●	–	–	–	–	–
NPD3002RK	3	4,83	.190	0,13	0.005	—	—	0,09	.0035	6,35	.250	–	●	–	–	–	–	–	–	–	–	–	–
NPD3012RK	3	4,95	.195	0,03	0.001	—	—	0,25	.0100	6,35	.250	●	●	–	–	–	–	●	–	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.
Tolerance on W ± .005" (± 0,13mm)





NGC-K-CL

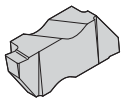
● first choice
○ alternate choice

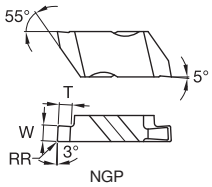
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Chamfer • Chip Control

catalog number	seat size	circlip size mm	circlip size in	W mm	W in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																					
NGC2C130R055K	2	1,30	.051	1,39	.055	0,08	.0031	0,6	.022	–	●	–	–	–	–	–	–	–	–	–	–
NGC2C215R150K	2	2,15	.085	2,24	.088	0,08	.0031	1,5	.059	–	●	–	–	–	–	–	–	–	–	–	–
left hand																					
NGC2C130L055K	2	1,30	.051	1,39	.055	0,08	.0031	0,6	.022	–	●	–	–	–	–	–	–	–	–	–	–
NGC2C185L125K	2	1,85	.073	1,94	.076	0,08	.0031	1,3	.049	–	●	–	–	–	–	–	–	–	–	–	–
NGC2C215L150K	2	2,15	.085	2,24	.088	0,08	.0031	1,5	.059	–	●	–	–	–	–	–	–	–	–	–	–

NOTE: Groove and chamfer inserts for circlip grooves to DIN 471/472 specification.
Right-hand insert shown; left-hand insert is mirror image.





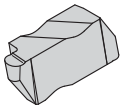
NGP

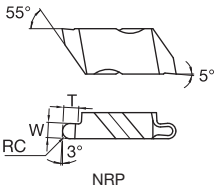
Groove and Turn • Positive

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NGP2031R	2	0,79	.031	0,03	0.001	—	—	0,09	.0035	1,27	.050	●	–	–	–	–	–	●	–	–	–	–	–
NGP2062R	2	1,58	.062	0,03	0.001	—	—	0,19	.0075	2,79	.110	●	–	–	–	–	–	●	–	–	–	–	–
NGP2125R	2	3,18	.125	0,03	0.001	—	—	0,19	.0075	2,79	.110	●	–	–	–	–	–	–	–	–	–	–	–
NGP3088R	3	2,24	.088	0,03	0.001	—	—	0,19	.0075	2,39	.094	●	–	–	–	–	–	–	–	–	–	–	●
NGP3125R	3	3,18	.125	0,03	0.001	—	—	0,19	.0075	3,81	.150	●	–	–	–	–	–	●	–	–	–	–	●
NGP3156R	3	3,96	.156	0,03	0.001	—	—	0,19	.0075	3,81	.150	●	–	–	–	–	–	–	–	–	–	–	–
NGP4189R	4	4,80	.189	0,03	0.001	—	—	0,57	.0225	6,35	.250	●	–	–	–	–	–	–	–	–	–	–	–
NGP4250R	4	6,35	.250	0,03	0.001	—	—	0,57	.0225	6,35	.250	–	–	–	–	–	–	●	–	–	–	–	–
left hand																							
NGP2031L	2	0,79	.031	0,03	0.001	—	—	0,09	.0035	1,27	.050	●	–	–	–	–	–	–	–	–	–	–	–
NGP2062L	2	1,57	.062	0,03	0.001	—	—	0,19	.0075	2,79	.110	●	–	–	–	–	–	–	–	–	–	–	–
NGP2125L	2	3,18	.125	0,03	0.001	—	—	0,19	.0075	2,79	.110	●	–	–	–	–	–	–	–	–	–	–	–
NGP3088L	3	2,24	.088	0,03	0.001	—	—	0,19	.0075	2,39	.094	●	–	–	–	–	–	–	–	–	–	–	–
NGP3125L	3	3,18	.125	0,03	0.001	—	—	0,19	.0075	3,81	.150	–	–	–	–	–	–	●	–	–	–	–	–
NGP4250L	4	6,35	.250	0,03	0.001	—	—	0,57	.0225	6,35	.250	●	–	–	–	–	–	–	–	–	–	–	–

NOTE: All KD and KB grades are single-ended tipped inserts.
Right-hand insert shown; left-hand insert is mirror image.

- Full radius positive rake inserts.





NRP

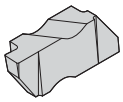
● first choice
○ alternate choice

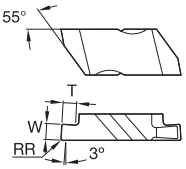
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Full Radius • Positive

catalog number	insert size	W mm	W in	Ap max mm	Ap max in	RC mm	RC in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																					
NRP3031R	3	1,58	.062	—	—	0,79	.0310	2,39	.094	●	–	–	–	–	–	●	–	–	–	–	–
NRP3047R	3	2,39	.094	—	—	1,19	.0470	3,81	.150	●	–	–	–	–	●	●	–	–	–	–	–
NRP3062R	3	3,18	.125	—	—	1,59	.0625	3,81	.150	●	–	–	–	–	–	●	–	–	–	–	–
NRP3094R	3	4,78	.188	—	—	2,39	.0940	3,81	.150	●	–	–	–	–	–	●	–	–	–	–	–
left hand																					
NRP3031L	3	1,58	.062	—	—	0,79	.0310	2,39	.094	●	–	–	–	–	–	●	–	–	–	–	–
NRP3047L	3	2,39	.094	—	—	1,19	.0470	3,81	.150	●	–	–	–	–	–	●	–	–	–	–	–
NRP3062L	3	3,18	.125	—	—	1,59	.0625	3,81	.150	–	–	–	–	–	–	●	–	–	–	–	–
NRP3094L	3	4,78	.188	—	—	2,39	.0940	3,81	.150	●	–	–	–	–	–	●	–	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.





NG

● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Flat Top

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NG2031R	2	0,79	.031	0,03	.001	–	–	0,09	.0035	1,27	.050	●	●	–	–	●	●	●	●	–	–	–	–
NG2041R	2	1,04	.041	0,03	.001	–	–	0,09	.0035	1,27	.050	●	●	–	–	●	●	●	●	–	–	–	–
NG2047R	2	1,19	.047	0,03	.001	–	–	0,09	.0035	1,27	.050	●	●	–	–	●	–	●	–	–	–	–	–
NG2058R	2	1,47	.058	0,03	.001	–	–	0,19	.0075	1,27	.050	–	●	–	–	–	–	–	●	–	–	–	–
NG2062R	2	1,58	.062	0,03	.001	–	–	0,19	.0075	2,79	.110	●	●	–	–	●	●	●	●	–	–	–	–
NG2094R	2	2,39	.094	0,03	.001	–	–	0,19	.0075	2,79	.110	●	●	–	–	●	●	●	–	–	–	–	–
NG2125R	2	3,18	.125	0,03	.001	–	–	0,19	.0075	2,79	.110	●	●	–	–	–	–	●	–	–	–	–	–
NG3047R	3	1,19	.047	0,03	.001	–	–	0,19	.0075	1,91	.075	●	●	–	–	●	●	●	●	–	–	–	–
NG3062R	3	1,58	.062	0,03	.001	–	–	0,19	.0075	2,39	.094	●	●	–	–	●	●	●	●	–	–	–	–
NG3072R	3	1,83	.072	0,03	.001	–	–	0,19	.0075	2,39	.094	●	–	–	–	●	–	●	–	–	–	–	–
NG3078R	3	1,98	.078	0,03	.001	–	–	0,19	.0075	2,39	.094	●	–	–	–	●	–	●	–	–	–	–	–
NG3088R	3	2,24	.088	0,03	.001	–	–	0,19	.0075	2,39	.094	●	●	–	–	●	–	●	–	–	–	–	–
NG3094R	3	2,39	.094	0,03	.001	–	–	0,19	.0075	3,81	.150	●	●	–	–	●	●	●	●	–	–	–	–
NG3097R	3	2,46	.097	0,03	.001	–	–	0,32	.0125	3,81	.150	●	●	–	–	●	–	●	–	–	–	–	–
NG3105R	3	2,67	.105	0,03	.001	–	–	0,19	.0075	3,81	.150	●	●	–	–	●	–	●	●	–	–	–	–
NG3110R	3	2,79	.110	0,03	.001	–	–	0,32	.0125	3,81	.150	–	●	–	–	–	–	–	●	–	–	–	–
NG3122R	3	3,10	.122	0,03	.001	–	–	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–
NG3125R	3	3,18	.125	0,03	.001	–	–	0,19	.0075	3,81	.150	●	●	–	–	●	●	●	●	–	–	–	–
NG3142R	3	3,61	.142	0,03	.001	–	–	0,32	.0125	3,81	.150	–	●	–	–	–	–	●	–	–	–	–	–
NG3156R	3	3,96	.156	0,03	.001	–	–	0,19	.0075	3,81	.150	●	●	–	–	●	–	●	●	–	–	–	–
NG3178R	3	4,52	.178	0,03	.001	–	–	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	●	–	–	–	–
NG3185R	3	4,70	.185	0,03	.001	–	–	0,57	.0225	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–
NG3189R	3	4,80	.189	0,03	.001	–	–	0,57	.0225	3,81	.150	●	●	–	–	●	●	●	●	–	–	–	–
NG4125R	4	3,18	.125	0,03	.001	–	–	0,19	.0075	3,81	.150	●	●	–	–	●	●	–	–	–	–	–	–
NG4189R	4	4,80	.189	0,03	.001	–	–	0,57	.0225	6,35	.250	●	●	–	–	●	●	●	–	–	–	–	–
NG4213R	4	5,41	.213	0,03	.001	–	–	0,19	.0075	6,35	.250	–	●	–	–	–	–	–	–	–	–	–	–
NG4250R	4	6,35	.250	0,03	.001	–	–	0,57	.0225	6,35	.250	●	●	–	–	●	–	●	●	–	–	–	–
NG5312R	5	7,93	.312	0,03	.001	–	–	0,83	.0325	9,52	.375	–	●	–	–	–	–	–	–	–	–	–	–
NG6375R	6	9,53	.375	0,03	.001	–	–	0,83	.0325	6,35	.250	–	●	–	–	–	–	–	–	–	–	–	–
left hand																							
NG1031L	1	0,79	.031	0,08	.003	–	–	0,19	.0075	1,27	.050	–	●	–	–	–	–	–	–	–	–	–	–
NG1047L	1	1,19	.047	0,08	.003	–	–	0,19	.0075	1,91	.075	–	●	–	–	–	–	–	●	–	–	–	–
NG1062L	1	1,58	.062	0,08	.003	–	–	0,19	.0075	1,91	.075	–	●	–	–	–	–	–	●	–	–	–	–
NG1094L	1	2,39	.094	0,08	.003	–	–	0,19	.0075	1,91	.075	–	●	–	–	–	–	–	●	–	–	–	–
NG2031L	2	0,79	.031	0,03	.001	–	–	0,09	.0035	1,27	.050	●	●	–	–	●	●	●	–	–	–	–	–
NG2041L	2	1,04	.041	0,03	.001	–	–	0,09	.0035	1,27	.050	–	●	–	–	●	–	●	●	–	–	–	–
NG2047L	2	1,19	.047	0,03	.001	–	–	0,09	.0035	1,27	.050	●	●	–	–	–	–	●	–	–	–	–	–
NG2058L	2	1,47	.058	0,03	.001	–	–	0,19	.0075	1,27	.050	–	●	–	–	–	–	–	–	–	–	–	–
NG2062L	2	1,58	.062	0,03	.001	–	–	0,19	.0075	2,79	.110	●	●	–	–	●	●	●	●	–	–	–	–
NG2094L	2	2,39	.094	0,03	.001	–	–	0,19	.0075	2,79	.110	●	●	–	–	●	●	●	–	–	–	–	–
NG2125L	2	3,18	.125	0,03	.001	–	–	0,19	.0075	2,79	.110	●	●	–	–	●	–	●	–	–	–	–	–
NG3047L	3	1,19	.047	0,03	.001	–	–	0,19	.0075	1,91	.075	●	●	–	–	●	●	●	–	–	–	–	–
NG3062L	3	1,57	.062	0,03	.001	–	–	0,19	.0075	2,38	.094	●	●	–	–	●	●	●	●	–	–	–	–
NG3072L	3	1,83	.072	0,03	.001	–	–	0,19	.0075	2,39	.094	●	–	–	–	–	–	●	–	–	–	–	–
NG3078L	3	1,98	.078	0,03	.001	–	–	0,19	.0075	2,39	.094	●	–	–	–	–	–	–	–	–	–	–	–
NG3088L	3	2,24	.088	0,03	.001	–	–	0,19	.0075	2,39	.094	●	●	–	–	–	–	●	–	–	–	–	–
NG3094L	3	2,39	.094	0,03	.001	–	–	0,19	.0075	3,81	.150	●	●	–	–	●	●	●	●	–	–	–	–

(continued)

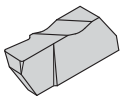
(Groove and Turn • Flat Top — continued)

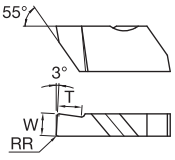
● first choice
○ alternate choice

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
NG3097L	3	2,46	.097	0,03	.001	—	—	0,32	.0125	3,81	.150	●	●	–	–	–	–	–	–	–	–	–	–
NG3105L	3	2,67	.105	0,03	.001	—	—	0,19	.0075	3,81	.150	●	●	–	–	–	–	●	–	–	–	–	–
NG3110L	3	2,79	.110	0,03	.001	—	—	0,32	.0125	3,81	.150	–	●	–	–	–	–	–	●	–	–	–	–
NG3122L	3	3,10	.122	0,03	.001	—	—	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–
NG3125L	3	3,18	.125	0,03	.001	—	—	0,19	.0075	3,81	.150	●	●	–	–	●	●	●	●	–	–	–	–
NG3142L	3	3,61	.142	0,03	.001	—	—	0,32	.0125	3,81	.150	●	●	–	–	–	–	–	–	–	–	–	–
NG3156L	3	3,96	.156	0,03	.001	—	—	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	●	–	–	–	–
NG3178L	3	4,52	.178	—	.001	—	—	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–
NG3185L	3	4,70	.185	0,03	.001	—	—	0,57	.0225	3,81	.150	–	–	–	–	–	–	–	●	–	–	–	–
NG3189L	3	4,80	.189	0,03	.001	—	—	0,57	.0225	3,81	.150	●	●	–	–	●	–	●	●	–	–	–	–
NG4125L	4	3,18	.125	0,03	.001	—	—	0,19	.0075	3,81	.150	●	●	–	–	–	●	–	–	–	–	–	–
NG4189L	4	4,80	.189	0,03	.001	—	—	0,57	.0225	6,35	.250	●	●	–	–	●	–	●	–	–	–	–	–
NG4189LEST	4	4,80	.189	0,03	.001	—	—	0,57	.0225	6,35	.250	–	–	–	–	–	–	–	–	–	●	–	–
NG4250L	4	6,35	.250	0,03	.001	—	—	0,57	.0225	6,35	.250	●	●	–	–	●	–	●	●	–	–	–	–

NOTE: All KD and KB grades are single-ended tipped inserts.
Right-hand insert shown; left-hand insert is mirror image.



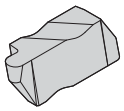


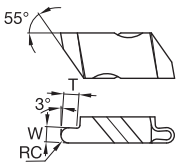
NGD

Groove and Turn • Deep Grooving • Flat Top

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NGD3189R	3	4,80	.189	0,03	0.001	—	—	0,57	.0225	6,35	.250	●	–	–	–	–	●	–	–	–	–	–	–
NGD4250R	4	6,35	.250	0,03	0.001	—	—	0,57	.0225	12,70	.500	●	–	–	–	–	●	–	–	–	–	–	–
left hand																							
NGD3189L	3	4,80	.189	0,03	0.001	—	—	0,57	.0225	6,35	.250	●	–	–	–	–	●	●	–	–	–	–	–
NGD4250L	4	6,35	.250	0,03	0.001	—	—	0,57	.0225	12,70	.500	●	–	–	–	–	●	●	–	–	–	–	–

NOTE: Inserts have one cutting edge.
Right-hand insert shown; left-hand insert is mirror image.





NR

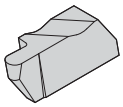
● first choice
○ alternate choice

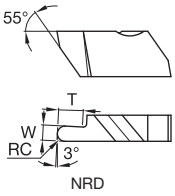
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Full Radius • Flat Top

catalog number	insert size	W mm	W in	Ap max mm	Ap max in	RC mm	RC in	T mm	T in
right hand									
NR2M050R	2	1,00	.039	—	—	0,50	.0197	1,27	.050
NR2M075R	2	1,50	.059	—	—	0,75	.0295	2,79	.110
NR2031R	2	1,58	.062	—	—	0,79	.0310	2,79	.110
NR2M100R	2	2,00	.079	—	—	1,00	.0394	2,79	.110
NR2047R	2	2,39	.094	—	—	1,19	.0470	2,79	.110
NR2M125R	2	2,50	.098	—	—	1,25	.0492	2,79	.110
NR2M150R	2	3,00	.118	—	—	1,50	.0591	2,79	.110
NR2062R	2	3,18	.125	—	—	1,59	.0625	2,79	.110
NR2M175R	2	3,50	.138	—	—	1,75	.0689	2,79	.110
NR3031R	3	1,58	.062	—	—	0,79	.0310	2,39	.094
NR3M100R	3	2,00	.079	—	—	1,00	.0394	2,39	.094
NR3047R	3	2,39	.094	—	—	1,19	.0470	3,81	.150
NR3M150R	3	3,00	.118	—	—	1,50	.0591	3,81	.150
NR3062R	3	3,18	.125	—	—	1,59	.0625	3,81	.150
NR3078R	3	3,96	.156	—	—	1,98	.0780	3,81	.150
NR3M200R	3	4,00	.157	—	—	2,00	.0787	3,81	.150
NR3094R	3	4,78	.188	—	—	2,39	.0940	3,81	.150
NR4094R	4	4,78	.188	—	—	2,39	.0940	6,35	.250
NR4125R	4	6,35	.250	—	—	3,18	.1250	6,35	.250
left hand									
NR2M050L	2	1,00	.039	—	—	0,50	.0197	1,27	.050
NR2031L	2	1,58	.062	—	—	0,79	.0310	2,79	.110
NR2M100L	2	2,00	.079	—	—	1,00	.0394	2,79	.110
NR2047L	2	2,39	.094	—	—	1,19	.0470	2,79	.110
NR2M150L	2	3,00	.118	—	—	1,50	.0591	2,79	.110
NR2062L	2	3,18	.125	—	—	1,59	.0625	2,79	.110
NR3031L	3	1,58	.062	—	—	0,79	.0310	2,39	.094
NR3M100L	3	2,00	.079	—	—	1,00	.0394	2,39	.094
NR3047L	3	2,39	.094	—	—	1,19	.0470	3,81	.150
NR3M150L	3	3,00	.118	—	—	1,50	.0591	3,81	.150
NR3062L	3	3,18	.125	—	—	1,59	.0625	3,81	.150
NR3M200L	3	4,00	.157	—	—	2,00	.0787	3,81	.150
NR3094L	3	4,78	.188	—	—	2,39	.0940	3,81	.150
NR4125L	4	6,35	.250	—	—	3,18	.1250	6,35	.250

NOTE: Right-hand insert shown; left-hand insert is mirror image.





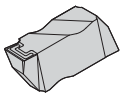
● first choice
○ alternate choice

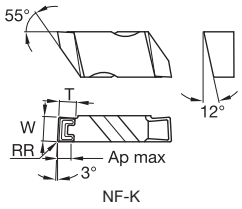
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Deep Grooving • Full Radius • Flat Top

catalog number	insert size	W mm	W in	Ap max mm	Ap max in	RC mm	RC in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																					
NRD3031R	3	1,58	.062	—	—	0,79	.0310	3,18	.125	●	●	–	–	–	–	●	●	–	–	–	–
NRD3062R	3	3,17	.125	—	—	1,59	.0625	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NRD4062R	4	3,18	.125	—	—	1,59	.0625	6,35	.250	●	●	–	–	–	–	●	–	–	–	–	–
NRD4094R	4	4,78	.188	—	—	2,39	.0940	12,70	.500	●	–	–	–	–	–	●	–	–	–	–	–
NRD4125R	4	6,35	.250	—	—	3,18	.1250	12,70	.500	–	●	–	–	–	–	●	–	–	–	–	–
left hand																					
NRD3031L	3	1,58	.062	—	—	0,79	.0310	3,18	.125	●	●	–	–	–	–	●	●	–	–	–	–
NRD3062L	3	3,17	.125	—	—	1,59	.0625	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NRD4062L	4	3,18	.125	—	—	1,59	.0625	6,35	.250	●	●	–	–	–	–	●	●	–	–	–	–
NRD4094L	4	4,78	.188	—	—	2,39	.0940	12,70	.500	●	●	–	–	–	–	●	–	–	–	–	–
NRD4125L	4	6,35	.250	—	—	3,18	.1250	12,70	.500	●	●	–	–	–	–	●	●	–	–	–	–

NOTE: Inserts have one cutting edge.
Right-hand insert shown; left-hand insert is mirror image.

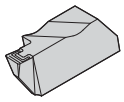


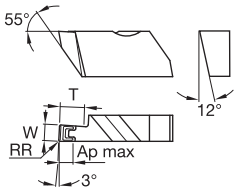


Face Grooving • Chip Control

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NF3M200RK	3	2,00	.079	0,03	0.001	1,02	.040	0,19	.0075	1,78	.070	–	–	–	–	–	–	–	●	–	–	–	–
NF3M300RK	3	3,00	.118	0,03	0.001	1,02	.040	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	●	–	–	–	–
NF3125RK	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	●	–	–	–	–
NF3156RK	3	3,96	.156	0,03	0.001	2,92	.115	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–
left hand																							
NF3M200LK	3	2,00	.079	0,03	0.001	1,02	.040	0,19	.0075	1,78	.070	–	–	–	–	–	–	–	●	–	–	–	–
NF3M300LK	3	3,00	.118	0,03	0.001	1,02	.040	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	●	–	–	–	–
NF3125LK	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	●	–	–	–	–
NF3156LK	3	3,96	.156	0,03	0.001	2,92	.115	0,19	.0075	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.





NFD-K

● first choice
○ alternate choice

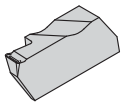
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

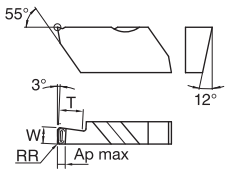
Face Grooving • Deep Grooving • Chip Control

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NFD3M300RK	3	3,00	.118	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	–	–	–	–	–	–	●	–	–	–	–
NFD3125RK	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	●	–	–	–	–	–	●	–	–	–	–
NFD4189RK	4	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	9,53	.375	–	●	–	–	–	–	–	–	–	–	–	–
NFD4250RK	4	6,35	.250	0,03	0.001	3,81	.150	0,57	.0225	12,70	.500	–	●	–	–	–	–	–	–	–	–	–	–
left hand																							
NFD3M300LK	3	3,00	.118	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	–	–	–	–	–	–	●	–	–	–	–
NFD3125LK	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	●	–	–	–	–	–	●	–	–	–	–
NFD4189LK	4	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	9,53	.375	–	●	–	–	–	–	–	●	–	–	–	–
NFD4250LK	4	6,35	.250	0,03	0.001	3,81	.150	0,57	.0225	12,70	.500	–	●	–	–	–	–	–	–	–	–	–	–

NOTE: Inserts have one cutting edge.
Right-hand insert shown; left-hand insert is mirror image.

• Face grooving deep grooving inserts.



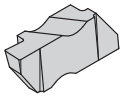


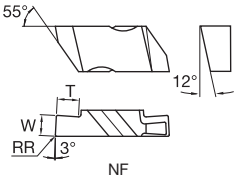
NFD-KI

Face Grooving • Internal Deep Grooving • Chip Control

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NFD3125RKI	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	●	–	–	–	–	–	●	–	–	–	–
NFD3189RKI	3	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	6,35	.250	–	●	–	–	–	–	–	–	–	–	–	–
left hand																							
NFD3125LKI	3	3,18	.125	0,03	0.001	1,02	.040	0,19	.0075	6,35	.250	–	●	–	–	–	–	–	–	–	–	–	–
NFD3189LKI	3	4,80	.189	0,03	0.001	2,92	.115	0,57	.0225	6,35	.250	–	●	–	–	–	–	–	–	–	–	–	–

NOTE: Inserts have one cutting edge.
NFD-KI inserts are compatible with NS-style boring bars only.
Right-hand insert shown; left-hand insert is mirror image.





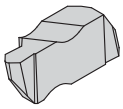
● first choice
○ alternate choice

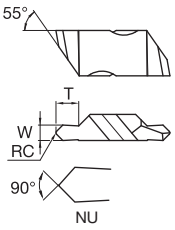
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Face Grooving • Flat Top

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NF3125R	3	3,18	.125	0,03	0.001	—	—	0,19	.0075	3,81	.150	–	–	–	–	–	●	–	–	–	–	–	–
NF3188R	3	4,78	.188	0,03	0.001	—	—	0,57	.0225	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–
left hand																							
NF3125L	3	3,18	.125	0,03	0.001	—	—	0,19	.0075	3,81	.150	–	–	–	–	–	●	–	–	–	–	–	–
NF3188L	3	4,78	.188	0,03	0.001	—	—	0,57	.0225	3,81	.150	–	●	–	–	–	–	–	–	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.



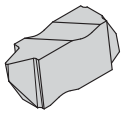


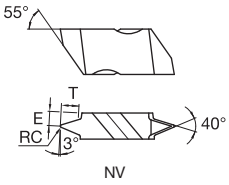
Groove and Turn • Flat Top • 90°

catalog number	insert size	W mm	W in	Ap max mm	Ap max in	RC mm	RC in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																					
NU3094R	3	2,39	.094	—	—	0,51	.0200	3,18	.125	–	–	–	–	–	–	–	●	–	–	–	–
NU3125R	3	3,18	.125	—	—	1,19	.0470	4,78	.188	–	●	–	–	–	–	–	–	–	–	–	–
left hand																					
NU3094L	3	2,39	.094	—	—	0,51	.0200	3,18	.125	–	●	–	–	–	–	–	●	–	–	–	–
NU3125L	3	3,18	.125	—	—	1,19	.0470	4,78	.188	–	–	–	–	–	–	–	●	–	–	–	–
NU3156L	3	3,96	.156	—	—	1,19	.0470	4,78	.188	–	–	–	–	–	–	–	●	–	–	–	–

NOTE: Tolerance on W ± .005" (± 0,13mm).
Right-hand insert shown; left-hand insert is mirror image.
NU inserts compatible with NR-style inserts.

- Poly-Vee grooving inserts.





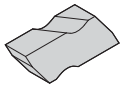
● first choice
○ alternate choice

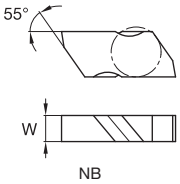
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Flat Top • Poly-Vee

catalog number	insert size	E mm	E in	RC mm	RC in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																			
NV3RJ	3	3,18	.125	0,32	.0125	2,21	.087	–	●	–	–	–	–	–	–	–	–	–	–
NV4RL	4	3,00	.118	0,32	.0125	5,11	.201	–	●	–	–	–	–	–	–	–	–	–	–
left hand																			
NV4LL	4	3,00	.118	0,32	.0125	5,11	.201	–	●	–	–	–	–	–	–	–	–	–	–

NOTE: Right-hand insert shown; left-hand insert is mirror image.

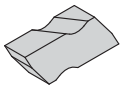


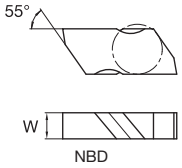


Groove and Turn • Blank

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NB2R	2	3,84	.151	—	—	—	—	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NB3R	3	4,95	.195	—	—	—	—	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NB4R	4	6,48	.255	—	—	—	—	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
left hand																							
NB2L	2	3,84	.151	—	—	—	—	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NB3L	3	4,95	.195	—	—	—	—	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–
NB4L	4	6,48	.255	—	—	—	—	—	—	—	—	–	–	–	–	–	●	–	–	–	–	–	–

NOTE: NB and NBD blanks are designed to allow modification of the W-dimension and end form. W-dimension is provided to indicate maximum possible width.
Available only in uncoated grades.
Right-hand insert shown; left-hand insert is mirror image.





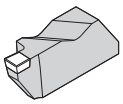
● first choice
○ alternate choice

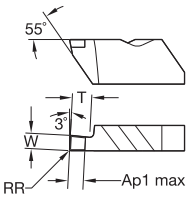
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Groove and Turn • Deep Grooving • Blank

catalog number	insert size	W mm	W in	W tol ± mm	W tol ± in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																							
NBD2R	2	3,81	.150	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
NBD3R	3	4,95	.195	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
left hand																							
NBD3L	3	4,95	.195	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

NOTE: NB and NBD blanks are designed to allow modification of the W-dimension and end form.
W-dimension is provided to indicate maximum possible width. Available only in uncoated grades.
Right-hand insert shown; left-hand insert is mirror image.





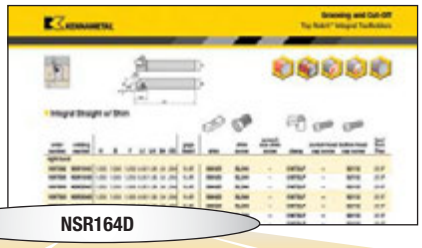
Groove and Turn • Flat Top • PcBN

catalog number	insert size	W mm	W in	Ap max mm	Ap max in	RR mm	RR in	T mm	T in	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
right hand																					
NG3062REST	3	1,58	.062	–	–	0,19	.0075	2,39	.094	–	–	–	–	–	–	–	–	–	●	–	●
NG3M200RS02020ST	3	2,00	.079	2,00	.0790	0,20	.0079	2,39	.094	–	–	–	–	–	–	–	–	–	●	●	–
NG3094REST	3	2,39	.094	–	–	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	–	–	●	–	●
NG3M300RS02020ST	3	3,00	.118	3,00	.1181	0,20	.0080	3,81	.150	–	–	–	–	–	–	–	–	–	●	●	–
NG3125REST	3	3,18	.125	–	–	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	–	–	●	–	●
NG3125RS0820ST	3	3,18	.125	3,00	.1181	0,25	.0100	3,81	.150	–	–	–	–	–	–	–	–	–	●	●	–
NG3M400RS02020ST	3	4,00	.157	3,00	.1181	0,20	.0080	3,81	.150	–	–	–	–	–	–	–	–	–	–	●	–
NG3189REST	3	4,80	.189	–	–	0,57	.0225	3,81	.150	–	–	–	–	–	–	–	–	–	–	–	●
NG4189REST	4	4,80	.189	–	–	0,57	.0225	6,35	.250	–	–	–	–	–	–	–	–	–	●	–	–
left hand																					
NG3062LEST	3	1,58	.062	–	–	0,19	.0075	2,39	.094	–	–	–	–	–	–	–	–	–	●	–	●
NG3M200LS02020ST	3	2,00	.079	2,00	.0790	0,20	.0080	2,39	.094	–	–	–	–	–	–	–	–	–	–	●	–
NG3094LEST	3	2,39	.094	–	–	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	–	–	●	–	●
NG3125LEST	3	3,18	.125	–	–	0,19	.0075	3,81	.150	–	–	–	–	–	–	–	–	–	●	–	–
NG3125LS0820ST	3	3,18	.125	3,00	.1181	0,25	.0100	3,81	.150	–	–	–	–	–	–	–	–	–	●	–	–
NG4189LEST	4	4,80	.189	–	–	0,57	.0225	6,35	.250	–	–	–	–	–	–	–	–	–	●	–	–

NOTE: All KB grades are single-ended tipped inserts.
Right-hand insert shown; left-hand insert is mirror image.

How Do Catalog Numbers Work?

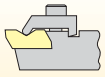
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



NSR164D

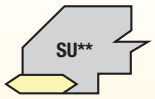
N	S	R		16	4	D
Insert Holding Method	Insert Mounting Location	Hand of Tool	Drop Head	Shank Size	Insert Size	Qualified Surface and Length

Insert Holding Method

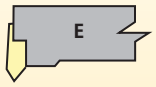


N = Top Notch*

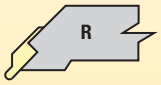
Insert Mounting Location



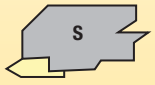
SU = Side mount utility**



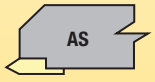
E = End



R = Undercut

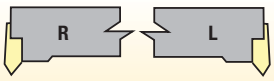


S = Side mount, offset

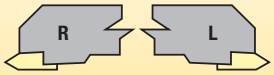


AS = Side mount, no offset

Hand of Tool

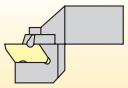


End mount



Side mount

Drop Head



DH = Drop Head

Shank Size

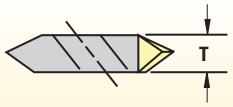
inch:

This position will show a significant two-digit number that indicates the holder cross section. For shanks 5/8" square and larger, the number will represent the number of sixteenths of width and height. For shanks under 5/8" square, the number of sixteenths of cross section will be preceded by a zero. For rectangular holders, the first digit represents the number of eighths of width and the second digit the number of quarters of height, except for a toolholder 1-1/4" x 1-1/2", which is given the number 91.

metric:

Shank height and width in millimeters and holder length according to ISO standard.

Insert Size



insert size	T	
in	in	mm
2	.150	3,81
3	.195	4,95
4	.255	6,98
5	.380	9,65
6	.383	9,73
8	.438	11,13

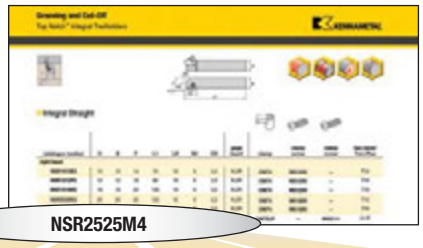
Qualified Surface and Length

A	=	Qualified back and end, 4" long
B	=	Qualified back and end, 4.5" long
C	=	Qualified back and end, 5" long
D	=	Qualified back and end, 6" long
E	=	Qualified back and end, 7" long
V	=	Qualified back and end, 3.5" long*
Q	=	Qualified metric holder

* Kennametal proprietary standard only.
** Side mount utility holder can only use NTU inserts.

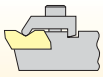
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.

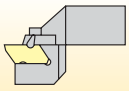


NSR2525M4

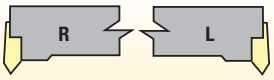
N	S	R		2525	M	4	
Insert Holding Method	Insert Mounting Location	Hand of Tool	Drop Head	Shank size	Tool Length	Insert Size	Qualified Surface and Length



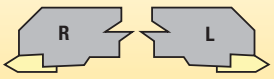
N = Top Notch



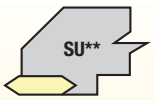
DH = Drop Head



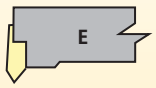
End mount



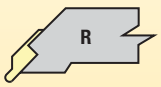
Side mount



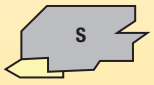
SU = Side mount utility



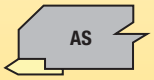
E = End



R = Undercut



S = Side mount, offset



AS = Side mount, no offset

inch:

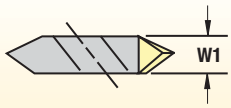
This position will show a significant two-digit number that indicates the holder cross section. For shanks 5/8" square and larger, the number will represent the number of sixteenths of width and height. For shanks under 5/8" square, the number of sixteenths of cross section will be preceded by a zero. For rectangular holders, the first digit represents the number of eighths of width and the second digit the number of quarters of height, except for a toolholder 1-1/4" x 1-1/2", which is given the number 91.

metric:

Shank height and width in millimeter and holder length according to ISO standard.

L1	ISO
32	A
40	B
50	C
60	D
70	E
80	F
90	G
100	H
110	J
125	K
140	L
150	M
160	N
170	P
180	Q
200	R
250	S
300	T
350	U
400	V
450	W
500	Y
Special Length	X

Q = Qualified metric holder



insert size	W1	
in	in	mm
2	.150	3,81
3	.195	4,95
4	.255	6,98
5	.380	9,65
6	.383	9,73
8	.438	11,13

* Kennametal proprietary standard only.
** Side mount utility holder can only use NTU inserts.

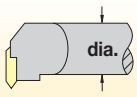
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.

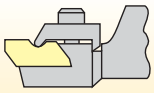
A32NER3

Inch

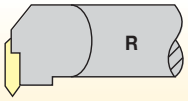
A	32	N	E	R	3	
Bar Type	Bar Diameter	Insert Holding Method	Insert Location	Hand of Bar	Insert Size	Additional Information



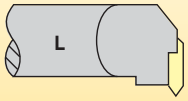
Bar diameter in millimeters



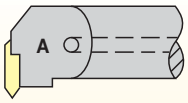
N* = Top Notch



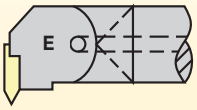
R = Right hand



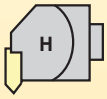
L = Left hand



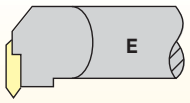
A = Steel with coolant



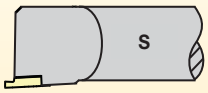
E = Carbide with coolant



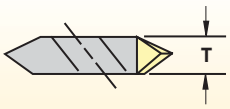
H = Interchangeable head



E = End mount

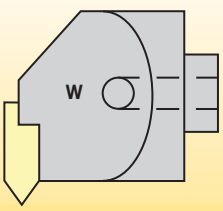


S = Straight mount



insert size	T mm	T in
1	3,54	.100
2	3,81	.150
3	5,35	.195
4	6,40	.255
5	9,65	.380
6	9,73	.383
8	11,13	.438

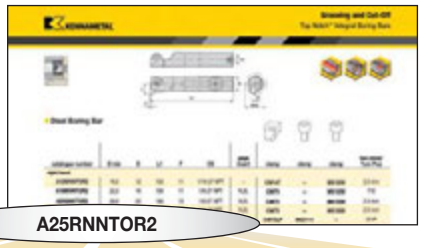
through coolant interchangeable head



*Kennametal standard only.

How Do Catalog Numbers Work?

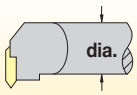
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



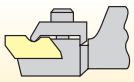
A25RNNTOR2

Metric

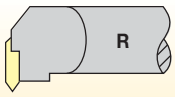
A	25	R	N	N	T	0	R	2
Bar Type	Bar Diameter	Bar Length	Insert Holding Method	Insert Shape	Insert Location	Rake Angle	Hand of Bar	Insert Size



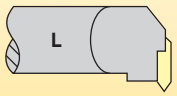
Bar diameter in millimeters



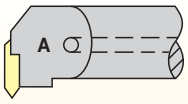
N* = Top Notch



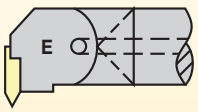
R = Right hand



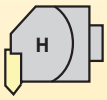
L = Left hand



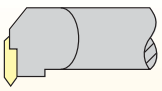
A = Steel with coolant



E = Carbide with coolant

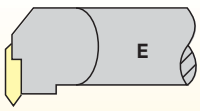


H = Interchangeable head

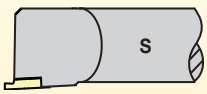


metric bars:

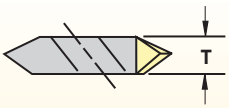
K	=	125mm
M	=	150mm
Q	=	180mm
R	=	200mm
S	=	250mm
T	=	300mm
U	=	350mm



End mount

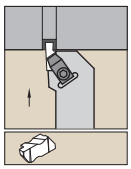


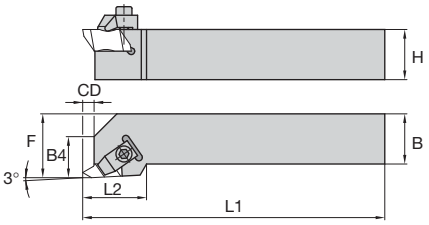
Straight mount



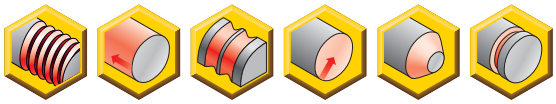
insert size	T mm	T in
1	3,54	.100
2	3,81	.150
3	5,35	.195
4	6,40	.255
5	9,65	.380
6	9,73	.383
8	11,13	.438

*Kennametal standard only.

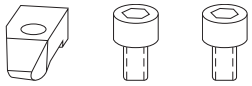




Right Hand

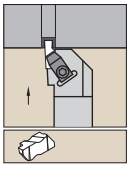


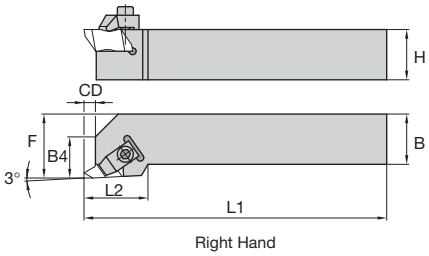
Integral Straight • Inch



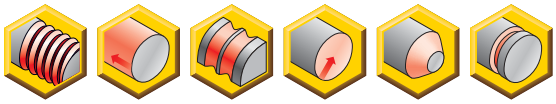
order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex/ Torx Plus
right hand													
1095583	**NSR062**	.375	.375	.562	2.50	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097608	**NSR082V**	.500	.500	.750	3.50	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097609	**NSR102B**	.625	.625	.875	4.50	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097584	**NSR122B**	.750	.750	1.000	4.50	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097585	**NSR162C**	1.000	1.000	1.250	5.00	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097590	**NSR123A**	.750	.750	1.000	4.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097586	**NSR123B**	.750	.750	1.000	4.50	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097587	**NSR163C**	1.000	1.000	1.250	5.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1016462	**NSR163D**	1.000	1.000	1.250	6.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097588	**NSR203D**	1.250	1.250	1.500	6.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097589	**NSR243D**	1.500	1.500	2.000	6.00	1.38	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097596	**NSR243E**	1.500	1.500	2.000	7.00	1.38	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097591	**NSR853D**	1.250	1.000	1.250	6.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097601	**NSR205D**	1.250	1.250	1.500	6.00	2.00	.61	.415	N.5R	**CM80**	**—**	**S352**	1/4
1016474	**NSR245D**	1.500	1.500	2.000	6.00	2.00	.61	.415	N.5R	**CM80**	**—**	**S352**	1/4
left hand													
1095582	**NSL062**	.375	.375	.562	2.50	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097278	**NSL082V**	.500	.500	.750	3.50	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097279	**NSL102B**	.625	.625	.875	4.50	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097254	**NSL122B**	.750	.750	1.000	4.50	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097255	**NSL162C**	1.000	1.000	1.250	5.00	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097261	**NSL123A**	.750	.750	1.000	4.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097256	**NSL123B**	.750	.750	1.000	4.50	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097257	**NSL163C**	1.000	1.000	1.250	5.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097260	**NSL163D**	1.000	1.000	1.250	6.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097258	**NSL203D**	1.250	1.250	1.500	6.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097259	**NSL243D**	1.500	1.500	2.000	6.00	1.38	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097267	**NSL243E**	1.500	1.500	2.000	7.00	1.38	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097262	**NSL853D**	1.250	1.000	1.250	6.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097272	**NSL205D**	1.250	1.250	1.500	6.00	2.00	.61	.415	N.5L	**CM81**	**—**	**S352**	1/4

NOTE: F dimension measured over sharp point of N-style threading insert.





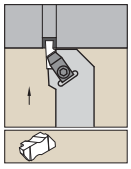
Right Hand

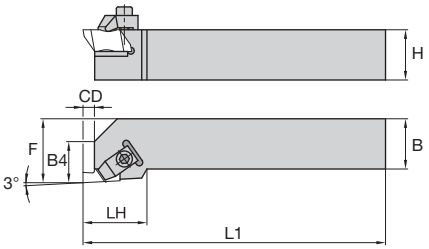


Integral Straight • Metric

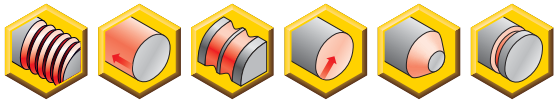
order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex (mm)/ Torx Plus
right hand													
1098790	**NSR1010E2**	10	10	14	70	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098791	**NSR1212F2**	12	12	16	80	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098792	**NSR1616H2**	16	16	20	100	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098793	**NSR2020K2**	20	20	25	125	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098794	**NSR2525M2**	25	25	32	150	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098795	**NSR2020K3**	20	20	25	125	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098796	**NSR2525M3**	25	25	32	150	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098797	**NSR3225P3**	32	25	32	170	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098798	**NSR3232P3**	32	32	40	170	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098799	**NSR2525M4**	25	25	32	150	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098800	**NSR3225P4**	32	25	32	170	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098801	**NSR3232P4**	32	32	40	170	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
left hand													
1098861	**NSL1010E2**	10	10	14	70	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098862	**NSL1212F2**	12	12	16	80	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098863	**NSL1616H2**	16	16	20	100	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098864	**NSL2020K2**	20	20	25	125	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098865	**NSL2525M2**	25	25	32	150	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098866	**NSL2020K3**	20	20	25	125	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098867	**NSL2525M3**	25	25	32	150	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098868	**NSL3225P3**	32	25	32	170	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098869	**NSL3232P3**	32	32	40	170	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098870	**NSL2525M4**	25	25	32	150	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098871	**NSL3225P4**	32	25	32	170	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098872	**NSL3232P4**	32	32	40	170	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP

NOTE: F dimension measured over sharp point of N-style threading insert.



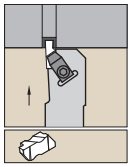


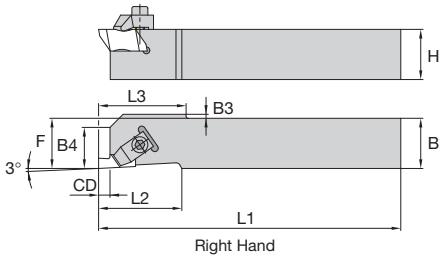
Right Hand



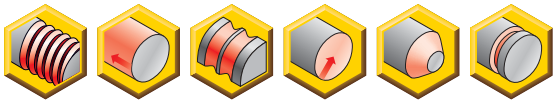
Integral Straight w/ Shim • Inch

order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	shim	shim screw	wrench size shim screw	clamp	socket-head cap screw	button-head cap screw	hex/ Torx Plus
right hand																
1097592	**NSR164C**	1.000	1.000	1.250	5.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097595	**NSR164D**	1.000	1.000	1.250	6.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097600	**NSR204C**	1.250	1.250	1.500	5.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097593	**NSR204D**	1.250	1.250	1.500	6.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097594	**NSR244D**	1.500	1.500	2.000	6.00	1.50	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097597	**NSR244E**	1.500	1.500	2.000	7.00	1.50	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097598	**NSR854D**	1.250	1.000	1.250	6.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097599	**NSR864E**	1.500	1.000	1.250	7.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	–	**CM72LP**	–	**S2112**	25 IP
1097604	**NSR166D**	1.000	1.000	1.250	6.00	1.38	.67	.334	N.6R	**SM416**	**S111**	1/16	**CM120**	**S412**	–	5/32
1097602	**NSR206D**	1.250	1.250	1.500	6.00	1.38	.67	.334	N.6R	**SM416**	**S111**	1/16	**CM120**	**S412**	–	5/32
1097603	**NSR246D**	1.500	1.500	2.000	6.00	1.50	.67	.334	N.6R	**SM416**	**S111**	1/16	**CM120**	**S412**	–	5/32
1097605	**NSR168D**	1.000	1.000	1.250	6.00	1.25	.72	.225	N.8R	**SM419**	**S112**	1/16	**CM144**	**S422**	–	3/16
left hand																
1097263	**NSL164C**	1.000	1.000	1.250	5.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097266	**NSL164D**	1.000	1.000	1.250	6.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097271	**NSL204C**	1.250	1.250	1.500	5.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097264	**NSL204D**	1.250	1.250	1.500	6.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097265	**NSL244D**	1.500	1.500	2.000	6.00	1.50	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097268	**NSL244E**	1.500	1.500	2.000	7.00	1.50	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097269	**NSL854D**	1.250	1.000	1.250	6.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	–	**CM73LP**	–	**S2112**	25 IP
1097275	**NSL166D**	1.000	1.000	1.250	6.00	1.38	.67	.334	N.6L	**SM416**	**S111**	1/16	**CM121**	**S412**	–	5/32
1097273	**NSL206D**	1.250	1.250	1.500	6.00	1.38	.67	.334	N.6L	**SM416**	**S111**	1/16	**CM121**	**S412**	–	5/32
1097274	**NSL246D**	1.500	1.500	2.000	6.00	1.50	.67	.334	N.6L	**SM416**	**S111**	1/16	**CM121**	**S412**	–	5/32

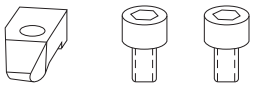




Right Hand

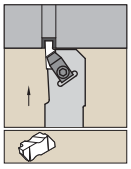


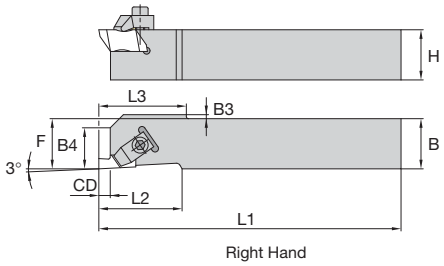
Integral Straight • No Offset • Inch



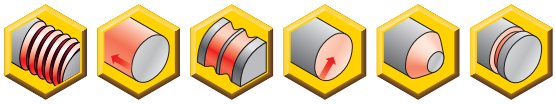
order number	catalog number	H	B	F	L1	LH	B4	CD	B3	L3	gage insert	clamp	clamp screw	clamp screw	hex/ Torx Plus
right hand															
1095671	**NASR062D**	.375	.375	.375	6.00	.75	.35	.700	.070	.875	N.2R	**CM182**	**—**	**S310**	7/64
1095670	**NASR082D**	.500	.500	.500	6.00	.75	.35	.138	—	—	N.2R	**CM182**	**—**	**S310**	7/64
1095576	**NASR102B**	.625	.625	.625	4.50	.75	.35	.138	—	—	N.2R	**CM74**	**—**	**S310**	7/64
1095574	**NASR083D**	.500	.500	.500	6.00	1.25	.50	.210	.125	1.324	N.3R	**CM184LP**	**S2112**	**—**	25 IP
1095668	**NASR103B**	.625	.625	.625	4.50	1.30	—	.210	—	—	N.3R	**CM184LP**	**S2112**	**—**	25 IP
left hand															
1095675	**NASL062D**	.375	.375	.375	6.00	.75	.35	.700	.070	.875	N.2L	**CM183**	**—**	**S310**	7/64
1095674	**NASL082D**	.500	.500	.500	6.00	.75	.35	.138	—	—	N.2L	**CM183**	**—**	**S310**	7/64
1095577	**NASL102B**	.625	.625	.625	4.50	.75	.35	.138	—	—	N.2L	**CM75**	**—**	**S310**	7/64
1095575	**NASL083D**	.500	.500	.500	6.00	1.25	.50	.210	.125	1.324	N.3L	**CM185LP**	**S2112**	**—**	25 IP
1095672	**NASL103B**	.625	.625	.625	4.50	1.30	—	.210	—	—	N.3L	**CM185LP**	**S2112**	**—**	25 IP

NOTE: F dimension measured over sharp point of N-style threading insert.

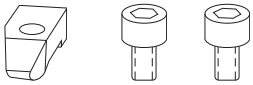




Right Hand

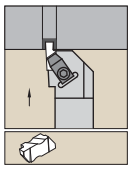


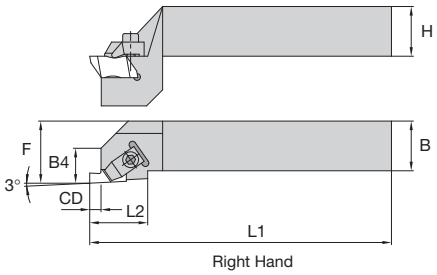
Integral Straight • No Offset • Metric

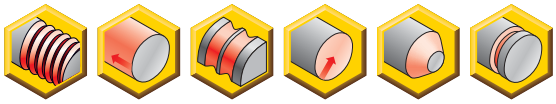


order number	catalog number	H	B	F	L1	LH	B4	CD	B3	L3	gage insert	clamp	clamp screw	clamp screw	hex (mm)/ Torx Plus
right hand															
1098788	**NASR1010M2Q**	10	10	10	150	19	9	3,5	2,03	19	N.2R	**CM182**	**MS1200**	**—**	T10
1098789	**NASR1212M2Q**	12	12	12	150	19	9	3,5	—	—	N.2R	**CM182**	**MS1200**	**—**	T10
1098786	**NASR1616K3Q**	16	16	16	125	32	13	5,3	—	—	N.3R	**CM184LP**	**—**	**MS2111**	25 IP
left hand															
1098859	**NASL1010M2Q**	10	10	10	150	19	9	3,5	2,03	19	N.2L	**CM183**	**MS1200**	**—**	T10
1098860	**NASL1212M2Q**	12	12	12	150	19	9	6,9	—	—	N.2L	**CM183**	**MS1200**	**—**	T10
1098857	**NASL1616K3Q**	16	16	16	125	32	13	5,3	—	—	N.3L	**CM185LP**	**—**	**MS2111**	25 IP

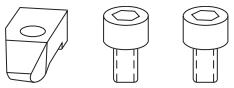
NOTE: F dimension measured over sharp point of N-style threading insert.





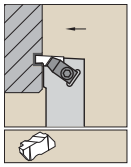


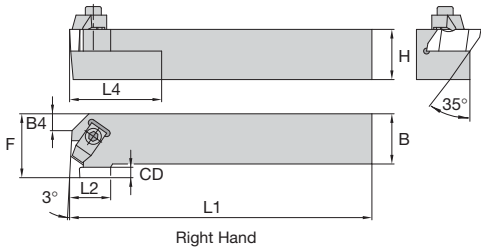
Integral Straight • Drop Head • Inch



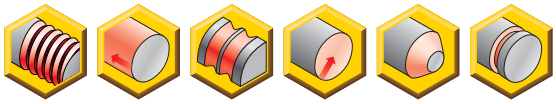
order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex/ Torx Plus	wrench size jack screw
right hand														
1097644	**NSRDH122B**	.750	.750	1.000	4.50	.75	.40	.130	N.2R	**CM74**	**—**	**S310**	7/64	1/8
1097645	**NSRDH162C**	1.000	1.000	1.250	5.00	.75	.40	.138	N.2R	**CM74**	**—**	**S310**	7/64	1/8
1097649	**NSRDH123A**	.750	.750	1.250	4.00	1.25	.58	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP	—
1097646	**NSRDH163C**	1.000	1.000	1.250	5.00	1.25	.58	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP	—
1097648	**NSRDH163D**	1.000	1.000	1.250	6.00	1.25	.58	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP	—
1097647	**NSRDH203D**	1.250	1.250	1.500	6.00	1.25	.62	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP	3/16
1097650	**NSRDH204D**	1.250	1.250	1.500	6.00	1.38	.62	.294	N.4R	**CM72LP**	**S2112**	**—**	25 IP	3/16
left hand														
1097681	**NSLDH203D**	1.250	1.250	1.500	6.00	1.25	.62	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP	3/16

NOTE: F dimension measured over sharp point of N-style threading insert.

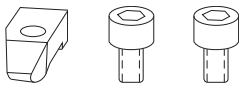




Right Hand

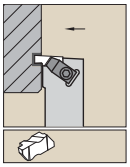


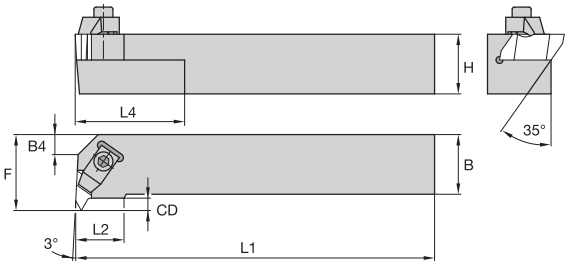
Integral End Mount • Inch



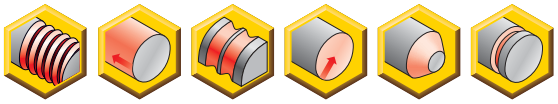
order number	catalog number	H	B	F	L1	LH	B4	CD	L4	gage insert	clamp	clamp screw	clamp screw	hex/ Torx Plus
right hand														
1095581	**NER062**	.375	.375	.750	2.50	.50	–	.138	1.0	N.2L	**CM75**	–	**S310**	7/64
1097577	**NER082V**	.500	.500	.750	3.50	.50	–	.138	1.0	N.2L	**CM75**	–	**S310**	7/64
1097578	**NER102B**	.625	.625	.750	4.50	–	–	.138	1.0	N.2L	**CM75**	–	**S310**	7/64
1097559	**NER122B**	.750	.750	1.000	4.50	.50	.29	.138	1.0	N.2L	**CM75**	–	**S310**	7/64
1097560	**NER162C**	1.000	1.000	1.250	5.00	.50	.41	.138	1.0	N.2L	**CM75**	–	**S310**	7/64
1097561	**NER123B**	.750	.750	1.125	4.50	.75	–	.210	2.0	N.3L	**CM73LP**	**S2112**	–	25 IP
1097562	**NER163C**	1.000	1.000	1.250	5.00	.75	–	.210	2.0	N.3L	**CM73LP**	**S2112**	–	25 IP
1097565	**NER163D**	1.000	1.000	1.250	6.00	.75	–	.210	2.0	N.3L	**CM73LP**	**S2112**	–	25 IP
1097563	**NER203D**	1.250	1.250	1.500	6.00	.75	.26	.210	2.0	N.3L	**CM73LP**	**S2112**	–	25 IP
1097564	**NER243D**	1.500	1.500	2.000	6.00	.75	.76	.210	2.0	N.3L	**CM73LP**	**S2112**	–	25 IP
1097566	**NER853D**	1.250	1.000	1.250	6.00	.75	–	.210	2.0	N.3L	**CM73LP**	**S2112**	–	25 IP
1097567	**NER164C**	1.000	1.000	1.375	5.00	.75	–	.294	2.0	N.4L	**CM73LP**	**S2112**	–	25 IP
1097570	**NER164D**	1.000	1.000	1.375	6.00	.75	–	.294	2.0	N.4L	**CM73LP**	**S2112**	–	25 IP
1097568	**NER204D**	1.250	1.250	1.625	6.00	.75	.27	.294	2.0	N.4L	**CM73LP**	**S2112**	–	25 IP
1097569	**NER244D**	1.500	1.500	2.000	6.00	.75	.65	.294	2.0	N.4L	**CM73LP**	**S2112**	–	25 IP
1097575	**NER205D**	1.250	1.250	2.000	6.00	1.44	–	.415	2.0	N.5L	**CM81**	–	**S352**	1/4
1097571	**NER206D**	1.250	1.250	1.625	6.00	.75	.27	.300	2.0	N.6L	**CM121**	–	**S412**	5/32
left hand														
1095580	**NEL062**	.375	.375	.750	2.50	.50	–	.138	1.0	N.2R	**CM74**	–	**S310**	7/64
1097247	**NEL082V**	.500	.500	.750	3.50	.50	–	.138	1.0	N.2R	**CM74**	–	**S310**	7/64
1097248	**NEL102B**	.625	.625	.750	4.50	–	–	.138	1.0	N.2R	**CM74**	–	**S310**	7/64
1097231	**NEL122B**	.750	.750	1.000	4.50	.50	.29	.138	1.0	N.2R	**CM74**	–	**S310**	7/64
1097232	**NEL162C**	1.000	1.000	1.250	5.00	.50	.41	.138	1.0	N.2R	**CM74**	–	**S310**	7/64
1097233	**NEL123B**	.750	.750	1.125	4.50	.75	–	.210	2.0	N.3R	**CM72LP**	**S2112**	–	25 IP
1097234	**NEL163C**	1.000	1.000	1.250	5.00	.75	–	.210	2.0	N.3R	**CM72LP**	**S2112**	–	25 IP
1097237	**NEL163D**	1.000	1.000	1.250	6.00	.75	–	.210	2.0	N.3R	**CM72LP**	**S2112**	–	25 IP
1097235	**NEL203D**	1.250	1.250	1.500	6.00	.75	.26	.210	2.0	N.3R	**CM72LP**	**S2112**	–	25 IP
1097236	**NEL243D**	1.500	1.500	2.000	6.00	.75	.76	.210	2.0	N.3R	**CM72LP**	**S2112**	–	25 IP
1097238	**NEL853D**	1.250	1.000	1.250	6.00	.75	–	.210	2.0	N.3R	**CM72LP**	**S2112**	–	25 IP
1097239	**NEL164C**	1.000	1.000	1.375	5.00	.75	–	.294	2.0	N.4R	**CM72LP**	**S2112**	–	25 IP
1097242	**NEL164D**	1.000	1.000	1.375	6.00	.75	–	.294	2.0	N.4R	**CM72LP**	**S2112**	–	25 IP
1097240	**NEL204D**	1.250	1.250	1.625	6.00	.75	.27	.294	2.0	N.4R	**CM72LP**	**S2112**	–	25 IP
1097241	**NEL244D**	1.500	1.500	2.000	6.00	.75	.65	.294	2.0	N.4R	**CM72LP**	**S2112**	–	25 IP
1097246	**NEL205D**	1.250	1.250	2.000	6.00	1.44	–	.415	2.0	N.5R	**CM80**	–	**S352**	1/4
1097243	**NEL206D**	1.250	1.250	1.625	6.00	.75	.27	.300	2.0	N.6R	**CM120**	–	**S412**	5/32

NOTE: F dimension measured over sharp point of N-style threading insert.

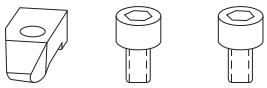




Right Hand

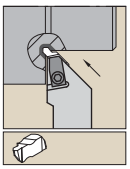


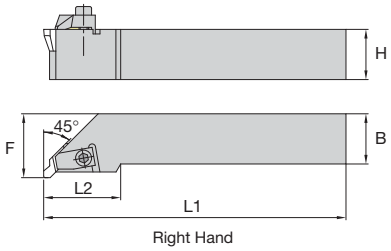
Integral End Mount • Metric

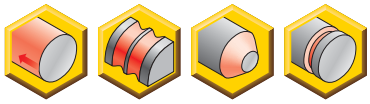


order number	catalog number	H	B	F	L1	LH	CD	gage insert	clamp	clamp screw	clamp screw	Torx/ Torx Plus
right hand												
1098803	**NER1616H2**	16	16	20	100	15	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098804	**NER2020K2**	20	20	25	125	15	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098805	**NER2525M2**	25	25	32	150	15	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098806	**NER2525M3**	25	25	32	150	22	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098807	**NER3225P3**	32	25	32	170	22	3,8	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098808	**NER2525M4**	25	25	35	150	24	6,4	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098809	**NER3225P4**	32	25	35	170	24	6,4	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098810	**NER3232P4**	32	32	40	170	24	6,4	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
left hand												
1098874	**NEL1616H2**	16	16	20	100	15	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098875	**NEL2020K2**	20	20	25	125	15	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098876	**NEL2525M2**	25	25	32	150	15	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098877	**NEL2525M3**	25	25	32	150	22	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098878	**NEL3225P3**	32	25	32	170	22	3,8	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098879	**NEL2525M4**	25	25	35	150	24	6,4	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098880	**NEL3225P4**	32	25	35	170	24	6,4	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098881	**NEL3232P4**	32	32	40	170	24	6,4	N.4R	**CM72LP**	**–**	**MS2111**	25 IP

NOTE: F dimension measured over sharp point of N-style threading insert.

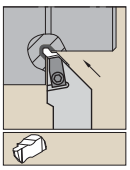


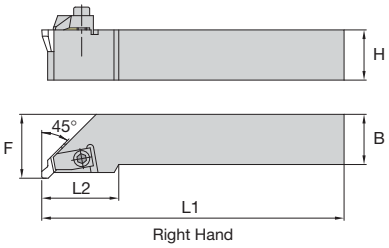


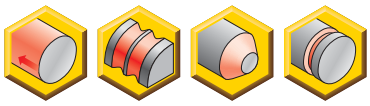


Integral 45° Undercut • Inch

order number	catalog number	H	B	F	L1	LH	gage insert	clamp	button-head cap screw	hex/ Torx Plus
right hand										
1097579	**NRR123B**	.750	.750	1.000	4.50	1.25	NU3L	**CM73LP**	**S2112**	25 IP
1097580	**NRR163C**	1.000	1.000	1.250	5.00	1.25	NU3L	**CM73LP**	**S2112**	25 IP
1097583	**NRR163D**	1.000	1.000	1.250	6.00	1.25	NU3L	**CM73LP**	**S2112**	25 IP
1097581	**NRR203D**	1.250	1.250	1.500	6.00	1.25	NU3L	**CM73LP**	**S2112**	25 IP
1097582	**NRR243D**	1.500	1.500	2.000	6.00	1.38	NU3L	**CM73LP**	**S2112**	25 IP
left hand										
1097249	**NRL123B**	.750	.750	1.000	4.50	1.25	NU3R	**CM72LP**	**S2112**	25 IP
1097250	**NRL163C**	1.000	1.000	1.250	5.00	1.25	NU3R	**CM72LP**	**S2112**	25 IP
1097253	**NRL163D**	1.000	1.000	1.250	6.00	1.25	NU3R	**CM72LP**	**S2112**	25 IP
1097251	**NRL203D**	1.250	1.250	1.500	6.00	1.25	NU3R	**CM72LP**	**S2112**	25 IP



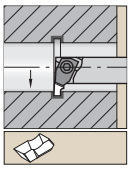




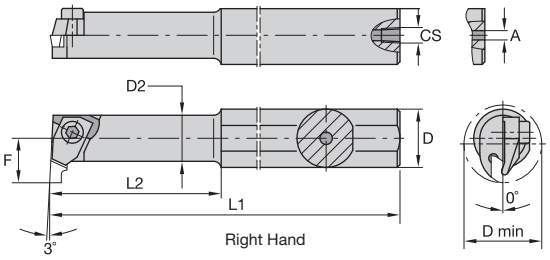
Integral 45° Undercut • Metric

order number	catalog number	H	B	F	L1	LH	gage insert	clamp	clamp screw	hex (mm)/ Torx Plus
right hand										
1098812	**NRR2020K3**	20	20	25	125	32	NU3125L	**CM73LP**	**MS2111**	25 IP
1098813	**NRR2525M3**	25	25	32	150	32	NU3125L	**CM73LP**	**MS2111**	25 IP
1098814	**NRR3225P3**	32	25	32	170	32	NU3125L	**CM73LP**	**MS2111**	25 IP
left hand										
1098883	**NRL2020K3**	20	20	25	125	32	NU3125R	**CM72LP**	**MS2111**	25 IP
1098884	**NRL2525M3**	25	25	32	150	32	NU3125R	**CM72LP**	**MS2111**	25 IP
1098885	**NRL3225P3**	32	25	32	170	32	NU3125R	**CM72LP**	**MS2111**	25 IP

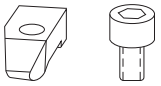
NOTE: NR-style toolholders are compatible with “NU” style inserts only.



Necked steel shank with through coolant.

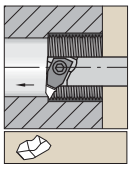


Steel Boring Bar • Small ID • Inch

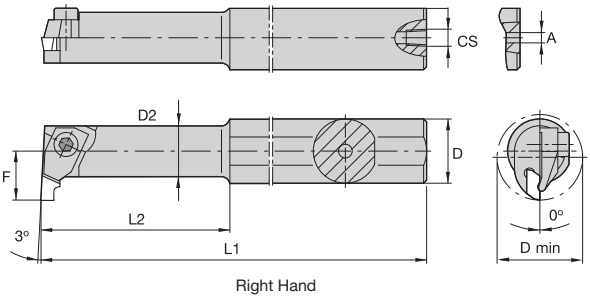


order number	catalog number	D min	D	L1	L2	F	A	CS	gage insert	clamp	clamp screw	hex (inch)/ Torx Plus
right hand												
1094826	**A06NER1**	.440	.38	6.00	1.250	.26	.13	—	N.1L	**CM109**	**S304**	5/64
1094827	**A08NER1**	.440	.50	8.00	1.290	.26	.09	1/16-27 NPT	N.1L	**CM109**	**S304**	5/64
1094828	**A10NER1**	.800	.63	10.00	—	.41	—	1/8-27 NPT	N.1L	**CM109**	**S304**	5/64

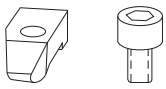
NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



Necked steel shank with through coolant.

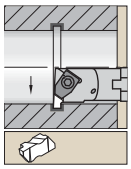


Steel Boring Bar • Small ID • Metric

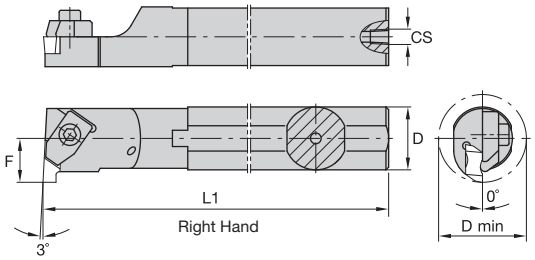


order number	catalog number	D min	D	D2	L1	L2	F	A	CS	gage insert	clamp	clamp screw	hex (mm)
right hand													
1098944	**A12MNNTOR1**	11,5	12	10,0	150	31,30	7	4,0	1/16-27 NPT	N.1L	**CM109**	**MS1034**	1.5 mm
1098943	**A10KNNTOR1**	11,5	10	10,0	125	—	7	3,2	—	NG1L	**CM109**	**MS1034**	1.5 mm

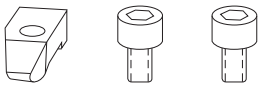
NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



Steel shank with through coolant.

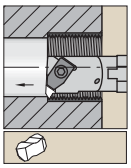


Steel Boring Bar • Inch

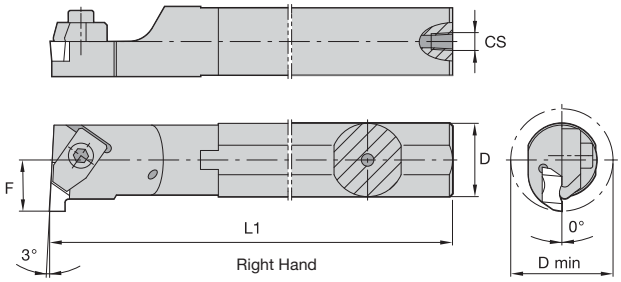


order number	catalog number	D min	D	L1	F	CS	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand											
1094824	**A08NER2**	.730	.500	8	.437	1/16-27 NPT	N.2L	**CM147**	**—**	**S39**	7/64
1094829	**A10SNER2**	1.000	.625	10	.500	1/8-27 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094831	**A12SNER2**	1.125	.750	10	.562	1/8-27 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094833	**A16TNER2**	1.375	1.000	12	.688	1/4-18 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094835	**A16NER3**	1.375	1.000	12	.688	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094837	**A20NER3**	1.750	1.250	14	.875	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094839	**A24NER3**	2.000	1.500	14	1.000	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094841	**A28NER3**	2.250	1.750	14	1.125	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094843	**A32NER3**	2.500	2.000	16	1.250	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094845	**A40NER3**	3.000	2.500	16	1.500	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094847	**A28NER4**	2.500	1.750	14	1.250	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094849	**A32NER4**	2.750	2.000	16	1.375	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094853	**A40NER4**	3.250	2.500	16	1.625	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094859	**A32NER6**	2.750	2.000	16	1.375	1/4-18 NPT	N.6L	**CM121**	**S2112**	**—**	5/32
left hand											
1094825	**A08NEL2**	.730	.500	8	.437	1/16-27 NPT	N.2R	**CM146**	**—**	**S39**	7/64
1094830	**A10SNEL2**	1.000	.625	10	.500	1/8-27 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094832	**A12NEL2**	1.125	.750	10	.562	1/8-27 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094834	**A16TNEL2**	1.375	1.000	12	.688	1/4-18 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094836	**A16NEL3**	1.375	1.000	12	.688	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094838	**A20NEL3**	1.750	1.250	14	.875	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094840	**A24NEL3**	2.000	1.500	14	1.000	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094842	**A28NEL3**	2.250	1.750	14	1.125	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094844	**A32NEL3**	2.500	2.000	16	1.250	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094846	**A40NEL3**	3.000	2.500	16	1.500	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094848	**A28NEL4**	2.500	1.750	14	1.250	1/4-18 NPT	N.4R	**CM72LP**	**S2112**	**—**	25 IP
1094850	**A32NEL4**	2.750	2.000	16	1.375	1/4-18 NPT	N.4R	**CM72LP**	**S2112**	**—**	25 IP
1094856	**A32NEL5**	2.812	2.000	16	1.406	1/4-18 NPT	N.5R	**CM80**	**—**	**S352**	1/4
1094860	**A32NEL6**	2.750	2.000	16	1.375	1/4-18 NPT	N.6R	**CM120**	**S2112**	**—**	5/32

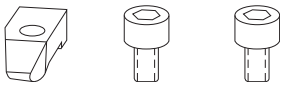
NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



Steel shank with through coolant.

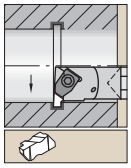


Steel Boring Bar • Metric

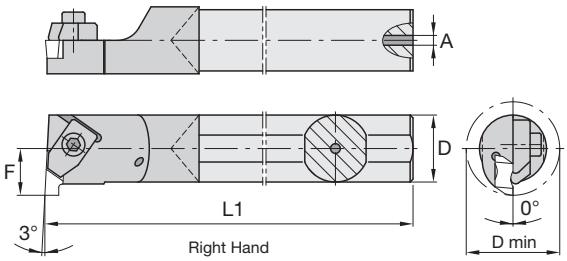


order number	catalog number	D min	D	L1	F	CS	gage insert	clamp	clamp screw	clamp screw	hex (mm)/ Torx Plus
right hand											
1098945	**A12MNNTOR2**	18,5	12	150	11	1/16-27 NPT	–	**CM147**	–	**MS1200**	2.5 mm
1098947	**A16MNNTOR2**	22,0	16	150	11	1/8-27 NPT	N.2L	**CM75**	–	**MS1200**	T10
1098949	**A20QNNTOR2**	26,0	20	180	13	1/8-27 NPT	N.2L	**CM75**	–	**MS1200**	2.5 mm
1098951	**A25RNNTOR2**	34,0	25	200	17	1/4-18 NPT	N.2L	**CM75**	–	**MS1200**	2.5 mm
1098953	**A25RNNTOR3**	34,0	25	200	17	1/8 - 27 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1098955	**A32SNNTOR3**	44,0	32	250	22	1/4-18 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1098957	**A40TNNTOR3**	54,0	40	300	27	1/4-18 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1099001	**A40TNNTOR4**	54,0	40	300	27	1/4-18 NPT	N.4L	**CM73LP**	**MS2111**	–	25 IP
1099003	**A50UNNTOR4**	70,0	50	350	35	1/4-18 NPT	N.4L	**CM73LP**	**MS2111**	–	25 IP
left hand											
1098946	**A12MNNTOL2**	18,5	12	150	11	1/16-27 NPT	NG2R	**CM146**	–	**MS1200**	2.5 mm
1098948	**A16MNNTOL2**	22,0	16	150	11	1/8-27 NPT	N.2R	**CM74**	–	**MS1200**	T10
1098950	**A20QNNTOL2**	26,0	20	180	13	1/8-27 NPT	NG2R	**CM74**	–	**MS1200**	2.5 mm
1098952	**A25RNNTOL2**	34,0	25	200	17	1/4-18 NPT	N.2R	**CM74**	–	**MS1200**	2.5 mm
1098954	**A25RNNTOL3**	34,0	25	200	17	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1098956	**A32SNNTOL3**	44,0	32	250	22	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1098958	**A40TNNTOL3**	54,0	40	300	27	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1099002	**A40TNNTOL4**	54,0	40	300	27	1/4-18 NPT	N.4R	**CM72LP**	**MS2111**	–	25 IP

NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



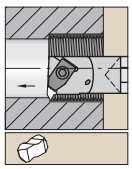
Carbide shank with through coolant.



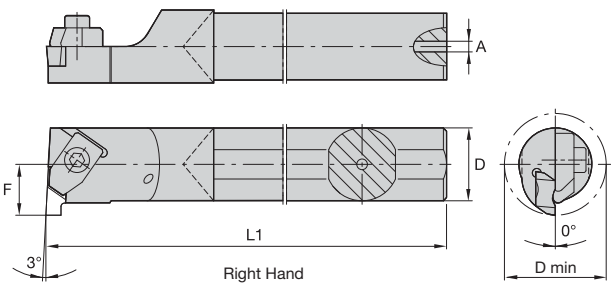
Carbide Boring Bar • Inch

order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	hex (inch)/ Torx Plus
right hand										
1152688	**E08NER2**	.730	.500	8	.437	.19	N.2L	**CM147**	**S39**	7/64
1152606	**E10NER2**	1.000	.625	10	.500	.22	N.2L	**CM75**	**S310**	7/64
1152608	**E12NER2**	1.125	.750	10	.562	.28	N.2L	**CM75**	**S310**	7/64
1152610	**E16NER3**	1.375	1.000	12	.688	.31	N.3L	**CM73**	**S412**	25 IP
left hand										
1152689	**E08NEL2**	.730	.500	8	.437	.19	N.2R	**CM146**	**S39**	7/64
1152607	**E10NEL2**	1.000	.625	10	.500	.22	N.2R	**CM74**	**S310**	7/64
1152609	**E12NEL2**	1.125	.750	10	.562	.28	N.2R	**CM74**	**S310**	7/64
1152611	**E16NEL3**	1.375	1.000	12	.688	.31	N.3R	**CM-72**	**S412**	25 IP

NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



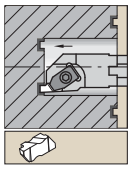
Carbide shank with through coolant.



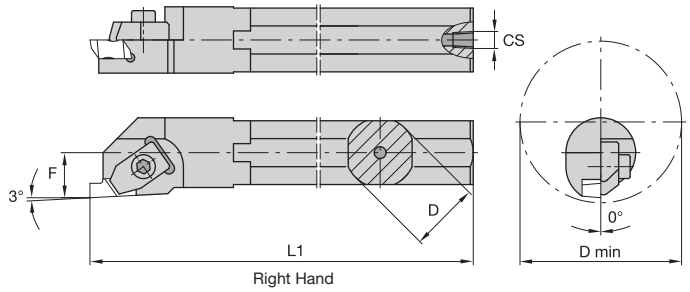
Carbide Boring Bar • Metric

order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	Torx/ Torx Plus
right hand										
1152834	**E16RNNTOR2**	22,0	16	200	11	5,537	N.2L	**CM75**	**MS1200**	T10
1152836	**E20SNNTOR2**	26,0	20	250	13	7,137	N.2L	**CM75**	**MS1200**	T10
left hand										
1152835	**E16RNNTOL2**	22,0	16	200	11	5,537	N.2R	**CM74**	**MS1200**	T10

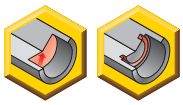
NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



Steel shank with through coolant.



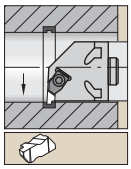
Right Hand

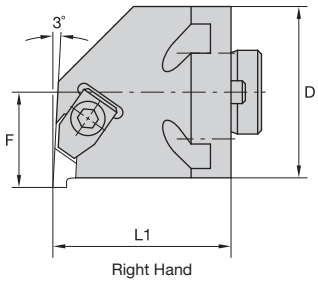


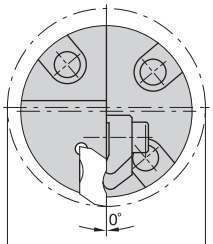
Steel Face Grooving Boring Bar • Inch

order number	catalog number	D min	D	L1	F	CS	gage insert	clamp	clamp screw	hex (inch)/ Torx Plus
right hand										
1094911	**A16TNSR3**	2.250	1.000	12	.640	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	25 IP
1094913	**A20UNSR3**	2.250	1.250	14	.765	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	25 IP
1094915	**A24UNSR3**	2.250	1.500	14	.890	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	25 IP
1094919	**A32VNSR3**	2.375	2.000	16	1.281	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	25 IP
1094921	**A40VNSR3**	2.875	2.500	16	1.531	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	25 IP
left hand										
1094912	**A16TNSL3**	2.250	1.000	12	.640	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	25 IP
1094916	**A24UNSL3**	2.250	1.500	14	.890	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	25 IP
1094920	**A32VNSL3**	2.375	2.000	16	1.281	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	25 IP

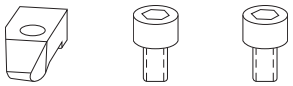
NOTE: Minimum bore applicable only when used with NFD-KI inserts on internal face grooves. See page C197 for machining guidelines when face grooving.





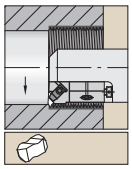


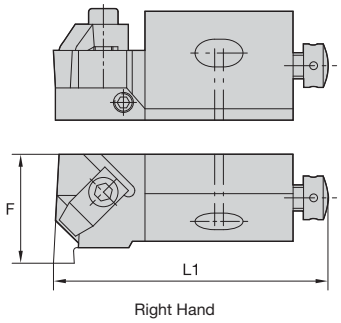
Steel Boring Head • Inch



order number	catalog number	D	D min	F	L1	gage insert	clamp	clamp screw	clamp screw	Torx Plus
right hand										
1095314	**H20NER3W**	1.250	1.750	.875	1.625	N.3L	**CM73LP**	**S2112**	**–**	25 IP
1095362	**H24NER3W**	1.500	2.000	1.000	1.625	N.3L	**CM73LP**	**S2112**	**–**	25 IP
1095418	**H28NER3W**	1.750	2.250	1.125	1.625	N.3L	**CM73LP**	**S2112**	**–**	25 IP
1095456	**H32NER3W**	2.000	2.500	1.250	1.625	N.3L	**CM73LP**	**S2112**	**–**	25 IP
1095533	**H40NER3W**	2.500	3.000	1.500	1.625	N.3L	**CM73LP**	**S2112**	**–**	25 IP
1095421	**H28NER4W**	1.750	2.500	1.250	1.625	N.4L	**CM73LP**	**S2112**	**–**	25 IP
1095458	**H32NER4W**	2.000	2.750	1.375	1.625	N.4L	**CM73LP**	**S2112**	**–**	25 IP
1095516	**H36NER4W**	2.250	3.000	1.500	1.625	N.4L	**CM73LP**	**S2112**	**–**	25 IP
1095535	**H40NER4W**	2.500	3.250	1.625	1.625	N.4L	**CM73LP**	**S2112**	**–**	25 IP
1095452	**H28NER6W**	1.750	2.500	1.250	1.625	N.6L	**CM121**	**–**	**S412**	5/32
1095512	**H32NER6W**	2.000	2.750	1.375	1.625	N.6L	**CM121**	**–**	**S412**	5/32
1095571	**H40NER6W**	2.500	3.250	1.625	1.625	N.6L	**CM121**	**–**	**S412**	5/32
1095367	**H24NER8W**	1.500	2.000	1.000	1.625	N.8L	**CM145**	**–**	**S422**	3/16
left hand										
1095315	**H20NEL3W**	1.250	1.750	.875	1.625	N.3R	**CM72LP**	**S2112**	**–**	25 IP
1095363	**H24NEL3W**	1.500	2.000	1.000	1.625	N.3R	**CM72LP**	**S2112**	**–**	25 IP
1095419	**H28NEL3W**	1.750	2.250	1.125	1.625	N.3R	**CM72LP**	**S2112**	**–**	25 IP
1095457	**H32NEL3W**	2.000	2.500	1.250	1.625	N.3R	**CM72LP**	**S2112**	**–**	25 IP
1095534	**H40NEL3W**	2.500	3.000	1.500	1.625	N.3R	**CM72LP**	**S2112**	**–**	25 IP
1095459	**H32NEL4W**	2.000	2.750	1.375	1.625	N.4R	**CM72LP**	**S2112**	**–**	25 IP
1095536	**H40NEL4W**	2.500	3.250	1.625	1.625	N.4R	**CM72LP**	**S2112**	**–**	25 IP

NOTE: For boring adapters, see pages B406–B409.
Minimum bore capability varies with depth of groove. See page C197 for details.

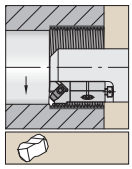


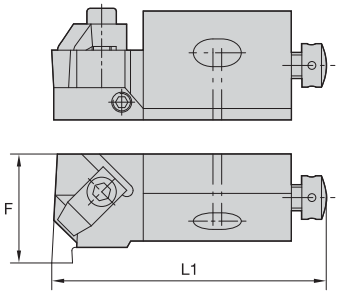


Steel Boring Cartridge • Inch

order number	catalog number	D min	F	L1	gage insert	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	hex	washer	hold down screw
right hand														
1098380	**NER12CA2**	1.969	.787	2.19	N.2L	**CM75**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	4 mm	**CSWM 060 050**	**191.406**
left hand														
1098624	**NEL12CA2**	1.969	.787	2.17	N.2R	**CM74**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	4 mm	**CSWM 060 050**	**191.406**
1098626	**NEL25CA3**	3.937	1.260	3.94	N.3R	**CM72LP**	**MS412**	4 mm	**KUAM26**	4 mm	**KUAM33**	6 mm	**CSWM 100 080**	**—**

NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.





Steel Boring Cartridge • Metric

order number	catalog number	D min	F	L1	gage insert	clamp	clamp screw	hex (mm)	radial adjusting screw	hex (mm)	axial screw	hex (mm)	washer
right hand													
1098380	**NER12CA2**	50	20	55,7	N.2L	**CM75**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
left hand													
1098624	**NEL12CA2**	50	20	55,0	N.2R	**CM74**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
1098626	**NEL25CA3**	100	32	100,0	N.3R	**CM72LP**	**MS412**	4 mm	**KUAM26**	4 mm	**KUAM33**	4 mm	**CSWM 100 080**

NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page C197 for details.
F dimension measured over sharp point of Top Notch-style threading insert.

Machining Guidelines for Chip Control • Grooving

When the proper cutter diameter is not available, proper cutter positioning will provide positive results.

- Center height of insert should be positioned at the center of the workpiece or up to .005" (0,13mm) above.
- Dwell time in the bottom of the groove (more than three revolutions) is not recommended.
- Chip control is feed rate related and should be adjusted to fit the particular situation. Recommended feed range is .003–.012 IPR (0,08–0,3 mm/rev).

Machining Guidelines for Chip Control • Turning/Profiling

Maximum depth of cut for side cutting (turning/profiling) depends on the material being cut and the width of the tool.

- .031–.062" (0,79–1,6mm) wide insert can cut up to .025" (0,6mm) deep.
- .067–.128" (1,7–3,3mm) wide insert can cut up to .040" (1mm) deep.
- .138–.189" (3,5–4,8mm) wide insert can cut up to .080" (2mm) deep.
- .197–.250" (5–6,35mm) wide insert can cut up to .120" (3mm) deep.

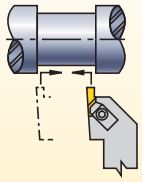
Groove Limits (Maximum Internal Groove Depth vs. Minimum Bore Diameter)

insert catalog number	maximum internal groove depth		minimum bore diameter	
	inch	mm	inch	mm
NG-1094L	.075	1,91	.800	20,32
–	.040	1,02	.440	11,18
NG-2031R/L	.050	1,27	.730	18,54
NG-2041R/L	–	–	–	–
NG-2047R/L	–	–	–	–
NG-2058R/L	–	–	–	–
–	.110	2,79	2.500	63,50
NG-2062R/L	.102	2,59	1.750	44,45
NG-2094R/L	.098	2,49	1.500	38,10
NG-2125R/L	.080	2,03	1.000	25,40
–	.055	1,40	.730	18,54
NG-3047R/L	–	–	–	–
NG-3062R/L	.094	2,39	1.750	44,45
NG-3072R/L	.090	2,29	1.625	41,28
NG-3078R/L	.075	1,91	1.375	34,93
NG-3088R/L	–	–	–	–
NG-3094R/L	–	–	–	–
NG-3097R/L	.150	3,81	2.375	60,33
NG-3105R/L	–	–	–	–
NG-3110R/L	.145	3,68	2.125	53,98
NG-3122R/L	–	–	–	–
NG-3125R/L	.138	3,51	1.875	47,63
NG-3142R/L	–	–	–	–
NG-3156R/L	.125	3,18	1.625	41,28
NG-3178R/L	–	–	–	–
NG-3185R/L	.110	2,79	1.375	34,93
NG-3189R/L	–	–	–	–
NG-4125R/L	.150	3,81	2.750	69,85
–	.250	6,35	5.750	146,05
NG-4189R/L	.245	6,22	5.000	127,00
NG-4213R/L	.240	6,10	4.500	114,30
NG-4219R/L	.218	5,54	3.250	82,55
NG-4250R/L	.200	5,08	2.500	63,50

NOTE: The same maximum groove depth and minimum bore diameter values also apply to metric, NG-K (chip control), and NR (full radius) inserts of similar size.

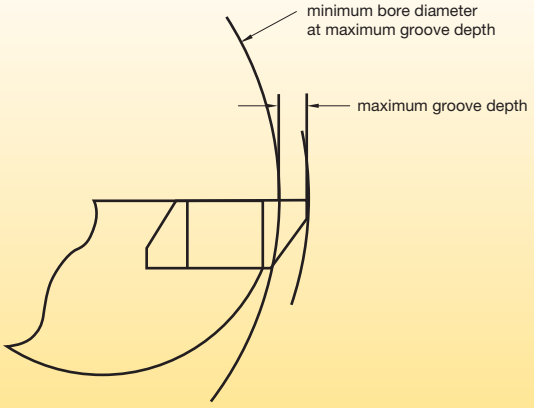
Finish Turning the Groove

1. Plunge both sides of groove width.
2. Plunge center area to remove web of material remaining.
3. To avoid insert chipping and to achieve groove wall perpendicularity, follow the tool path outlined.
4. Use the lightest depth of cut that still allows good chipbreaking, tool life, and surface finish.



insert catalog number	maximum internal groove depth		minimum bore diameter	
	inch	mm	inch	mm
–	.375	9,53	28.812	731,82
NG-5250R/L	.361	9,17	15.812	401,62
NG-5281R/L	.344	8,74	10.812	274,62
NG-5312R/L	.327	8,31	7.312	185,72
NG-5344R/L	.294	7,47	4.812	122,22
NG-5375R/L	.257	6,53	3.562	90,47
–	.215	5,46	2.812	71,42
NG-6250R/L	.250	6,35	5.750	146,05
NG-6281R/L	.245	6,22	5.000	127,00
NG-6312R/L	.240	6,10	4.500	114,30
NG-6344R/L	.218	5,54	3.250	82,55
NG-6375R/L	.200	5,08	2.500	63,50

Internal Groove Depth versus Bar Interference



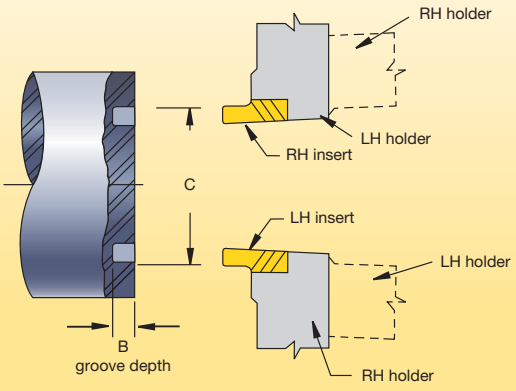
NOTE: Internal grooving depth limits are a function of bar clearance versus bore diameters.

Machining Guidelines for Face Grooving Operations • External

Standard NF/NDF Inserts

insert family	maximum groove depth "B"		minimum groove diameter "C"	
	inch	mm	inch	mm
NF-3	.060	1,52	.940	23,90
NF-3	.094	2,39	1.200	30,50
NF-3	.125	3,18	1.420	36,10
NF-3	.150	3,81	1.630	41,30
NFD-3	.250	6,35	1.880	47,60
NF-4/6	.060	1,52	.940	23,90
NF-4/6	.094	2,39	1.200	30,50
NF-4/6	.125	3,18	1.420	36,10
NF-4/6	.150	3,81	1.630	41,30
NF-4/6	.188	4,78	1.880	47,60
NF-4/6	.250	6,35	2.250	57,20
NFD-4	.375	9,53	2.250	57,20
NFD-4	.500	12,70	2.250	57,20

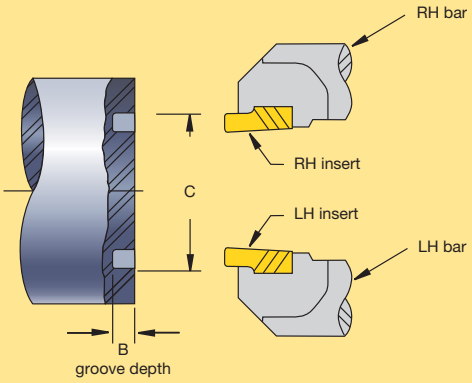
Toolholders



Standard NG/NGD Inserts

insert family	maximum groove depth "B"		minimum groove diameter "C"	
	inch	mm	inch	mm
NG-2	.050	1,27	2.13	54,0
NG-2	.110	2,79	3.50	88,9
NG-3	.094	2,39	4.00	101,6
NG-3	.125	3,18	5.00	127,0
NG-3	.150	3,81	5.50	139,7
NGD-3	.250	6,35	6.88	174,6
NG-4	.150	3,81	6.00	152,4
NG-4	.250	6,35	8.25	209,6
NGD-4	.375	9,53	8.75	222,3
NGD-4	.500	12,70	8.75	222,3
NG-5	.375	9,53	13.00	333,0

Boring Bars

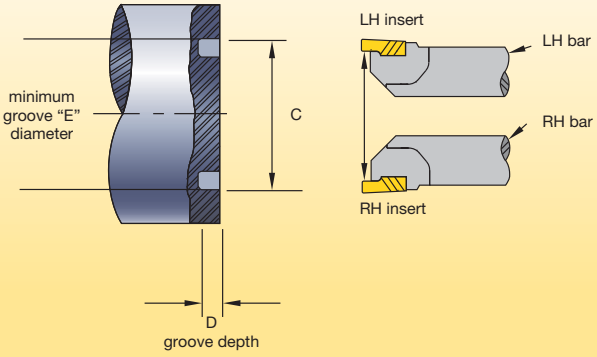


Machining Guidelines for Face Grooving Operations • Internal

insert family	maximum groove depth "D"		minimum groove diameter "E"	
	inch	mm	inch	mm
NFD-3-KI	.250	6,35	2.250	57,2

NOTE: For internal applications, use only NFD-KI inserts.

Boring Bars

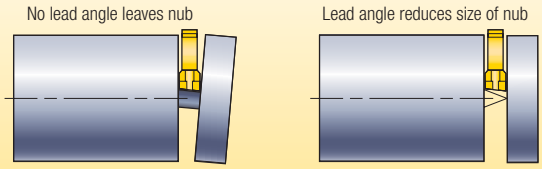


Tool Application Guidelines

- Always use good general machining practices.
- Make the machine and workpiece setup as rigid as possible.
- Integral shank toolholders offer the best rigidity. They should be your first toolholder choice, when possible.
- Use the toolholder with the shortest possible depth of cut for the application ("CD" dimension).
- When changing inserts, make sure the new insert locates securely against the toolholder's positive stop.
- Never tighten the clamping screw without an insert in the pocket.
- Toolholder projection out of the tool block should be as short as possible.
- Inserts should cut as close to center as possible.
- Dwell time in bottom of groove should be less than three revolutions.
- Recommended cutting speed and feeds are a starting point. Adjust, as necessary, for optimum tool life and chip control.

Definitions and Guidelines

1. Width of cut (W) = width of the insert.
2. Lead angle = 0° (neutral); 6° (RH or LH).

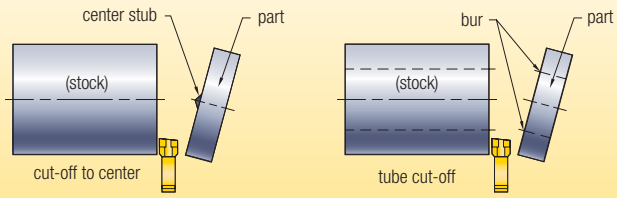


Reduce bur of cut-off faces:

- Use lead angle-type inserts (Figures 1 and 2). Lead angle on a cut-off insert reduces the bur that remains on the part but decreases tool life and increases tool side deflection and possibly cycle time.
- If 0° lead angle is mandatory, use the narrowest possible cut-off insert and blade. This will minimize the center stub or cut-off bur length.

Figure 1

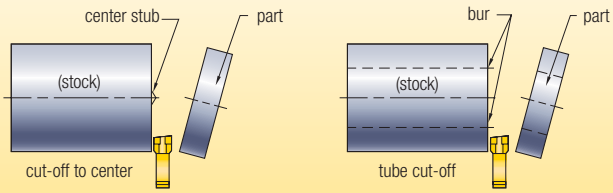
Insert selection **left-hand lead**



Left-hand lead insert leaves center stub or bur on part and produces clean stock surface.

Figure 2

Insert selection **right-hand lead**



Reduces nub but decreases tool life and productivity

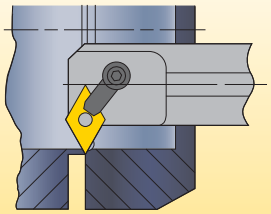
Right-hand lead insert leaves center stub or bur on stock and produces clean part surface.

- Check total height and maintain on center with part diameter.
- The cutting edge height should be within ±.004" (0,1mm) to the center; recommended cutting position is .002" (0,05mm) above center.

Tubing

- On tubing-type parts that require a chamfer on the I.D., align I.D. chamfer tool with cut-off surface. This will enable the chamfering operation to actually separate the part from the bar (see Figure 3). Note the part may drop onto the chamfering bar, which, in this case, will act like a catcher for the part.

Figure 3

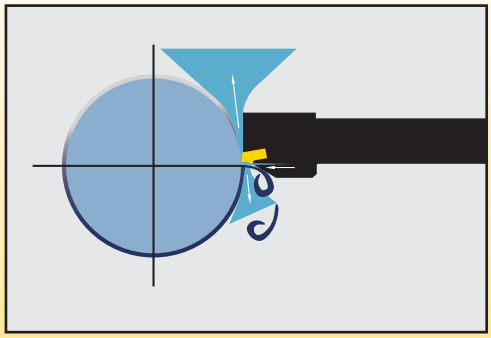


Internal chamfer line up

Improve surface finish of cut-off faces:

- Use insert with 0° lead angle.
- Increase coolant flow or improve application technique, as shown in Figure 4.
- Decrease the feed rate near the break-through point of the cut.
- Check that the grooving tool is set at the correct angle.
- Use blades with the greatest possible face height and smallest possible cutting width.
- Increase the speed.

Figure 4

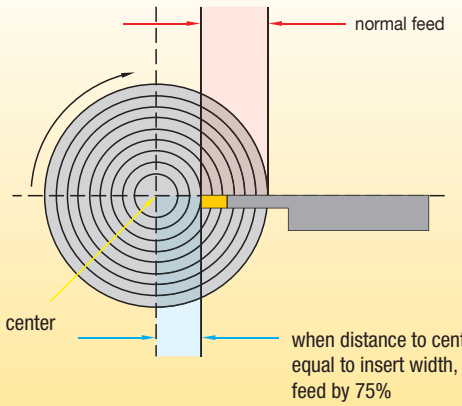


Preferred method for applying coolant

- Mount cut-off tool upside down. This enables gravity to remove chips and avoid cutting the chips twice. Another benefit of mounting the tool upside down is preventing chips from wedging between the tool insert and the groove side walls, which galls the side wall surfaces.

Programming Guidelines

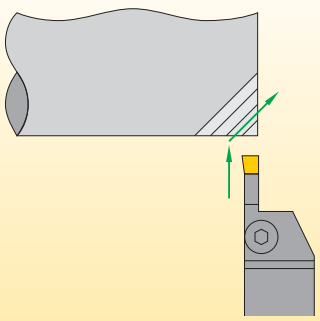
Feed reduction in cut-off



Feed reduction when approaching center = longer tool life

Chamfering

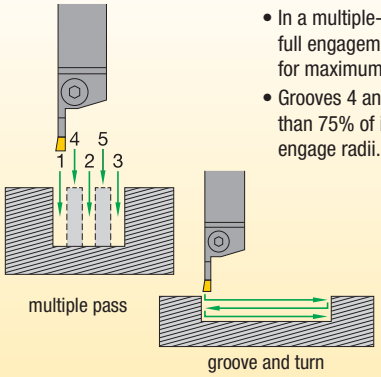
Chamfering with a grooving tool reduced machine index time and tool stations.



(continued)

Programming Guidelines *(continued)*

Pocketing



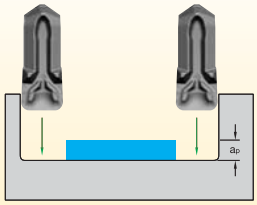
- In a multiple-pass operation, generate full engagement grooves in 1, 2, and 3 for maximum stability.
- Grooves 4 and 5 should be no more than 75% of insert width, so as not to engage radii.

If pocket is deeper than wide = multiple pass

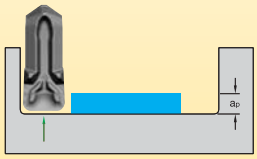
If pocket is wider than deep = groove and turn

Square Pocket

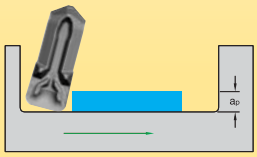
Steps 1 and 2
Plunge the radius and wall on each side to open up two grooves.



Step 3
Retract tool .004" (0,1mm); this is necessary to create a flat bottom.

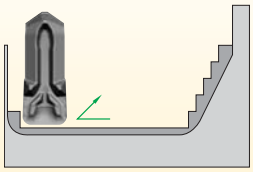


Step 4
Side turn. This tool is designed to deflect, creating the necessary front clearance.

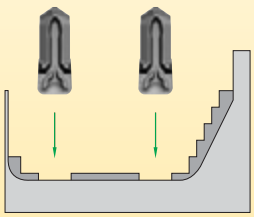


Profile Pocket

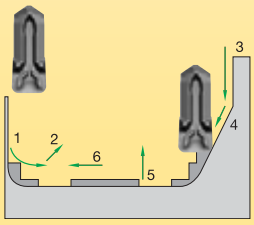
Step 1
Rough to have about the same amount of stock left on all surfaces for finish.



Step 2
Open up two grooves away from wall and radius.

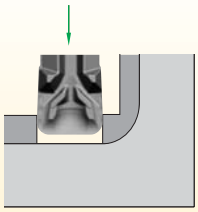


Step 3
(1 and 2) Finish wall and radius.
(3 and 4) Finish wall, angle, and radius on opposite side of pocket.
(5) Retract tool .004" (0,1mm).
(6) Side turn to finish the floor of the pocket.

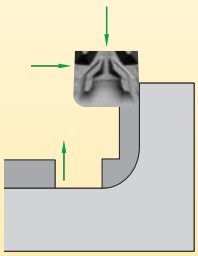


Generating a Radius

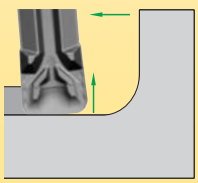
Step 1
Open up a groove away from the radius.



Step 2
Retract and move the material on the wall and generate the radius. By generating the groove in the prior step, only one surface is engaged at a time, reducing the risk of vibrations.

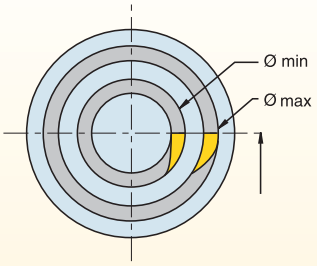


Step 3
Retract the tool .004" (0,1mm) and then side turn.



Grooving Tool Failure and Solution Guide

Face Grooving Application Guidelines

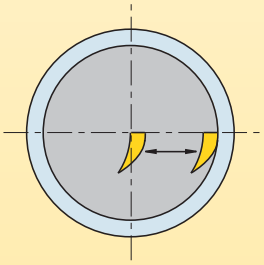


Tool Selection
- When selecting the toolholder, always start at the largest diameter possible and work toward the smaller diameter. This will allow the strongest tool to be used.

Cutting the First Groove
- The outside diameter of the first groove must be between the diameter minimum and diameter maximum capability of the face grooving tool (see illustration above). This creates clearance for the toolholder.

Chip Control
- Adjust speed and feed for good chip control and evacuation from the groove. Chip compaction can cause poor surface finish, tool breakage, and reduced tool life.

Tool Setting
- The tool should be set as close to the center as possible to avoid extreme formation of burs.
- Align the cutting edge square to the workpiece.



Widening a Face Groove
- After the first groove has been cut, the groove width can be widened in either direction using the same tool. The best practice is to work from the O.D. to the I.D.

Practical Solutions to Grooving Problems

problem	remedy
bur	1. Verify tool center height. 2. Use sharp tools (index more often). 3. Use positive rake PVD coated insert. 4. Use correct grade for workpiece material. 5. Use correct geometry (e.g., positive rake for workhardening material). 6. Change tool path.
poor surface finish	1. Increase speed. 2. Use sharp tools (index more often). 3. Dwell time in bottom 1–3 revolutions (max). 4. Use proper chip control geometry. 5. Increase coolant flow. 6. Verify proper setup (overhang, shank size). 7. Use correct geometry (e.g., positive rake for workhardening material).
groove bottom not flat	1. Use sharp tools (index more often). 2. Dwell time in bottom 1–3 revolutions (max). 3. Reduce tool overhang (increase rigidity). 4. Reduce feed rate at groove bottom. 5. Use a wider insert. 6. Verify tool center height.
poor chip control	1. Use sharp tools (index more often). 2. Increase coolant concentration. 3. Adjust feed rate (usually increase first).
chatter	1. Reduce tool and workpiece overhang. 2. Adjust speed (usually increase first). 3. Adjust feed (usually increase first). 4. Verify tool center height.
insert chipping	1. Use correct grade for workpiece material. 2. Increase speed. 3. Reduce feed. 4. Use a stronger grade. 5. Increase tool and setup rigidity.
built-up edge	1. Use positive rake PVD coated insert. 2. Increase speed. 3. Reduce feed. 4. Increase coolant flow/concentration. 5. Use cermets.
side walls not straight	1. Check tool alignment for square. 2. Reduce workpiece and tool overhang. 3. Use sharp inserts (index more often).

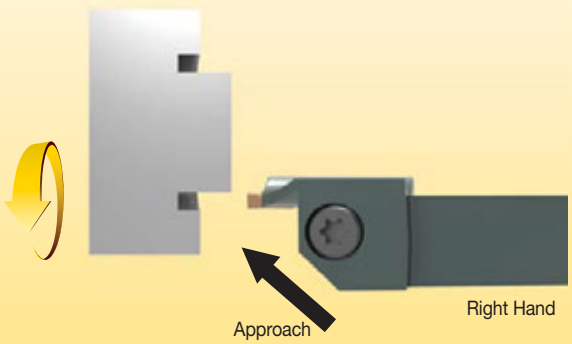
Steps to proper face grooving tool selection

- Step 1: Select your spindle rotation
- Step 2: Select your angle of approach and toolholder orientation

Integral Tooling

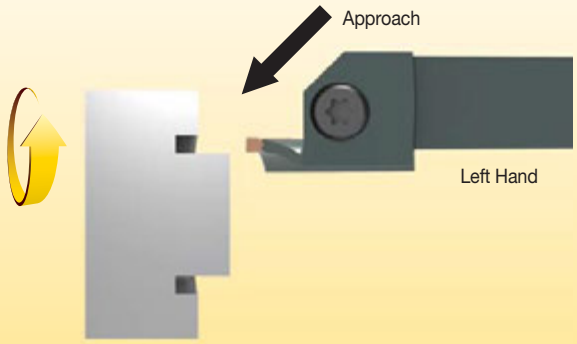
Counter-Clockwise Rotation

Square Shank

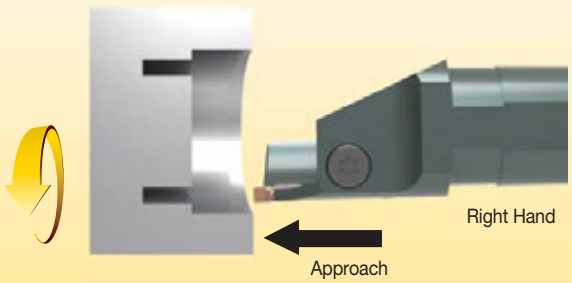


Clockwise Rotation

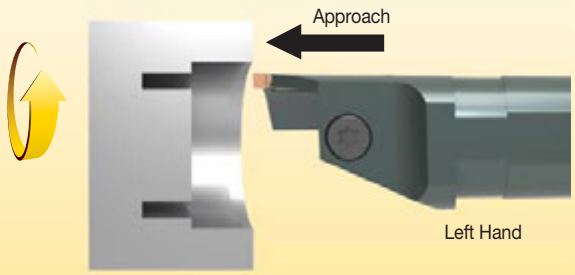
Square Shank



Boring Bar



Boring Bar



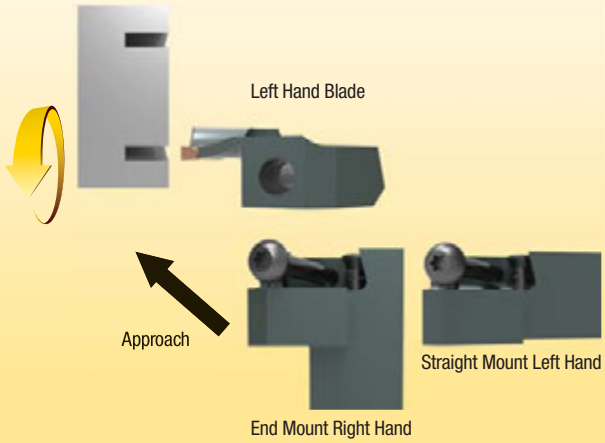
Steps to proper modular face grooving tool selection

- Step 1: Select your spindle rotation
- Step 2: Select your angle of approach and toolholder orientation
- Step 3: Identify combination of blade and shank tool

Modular Tooling

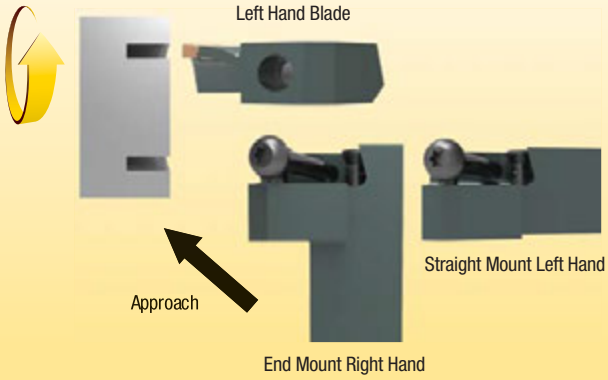
Counter-Clockwise Rotation

Left Hand Outboard Sweep

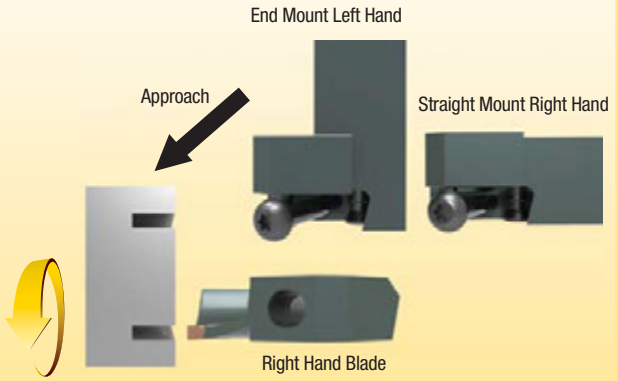


Clockwise Rotation

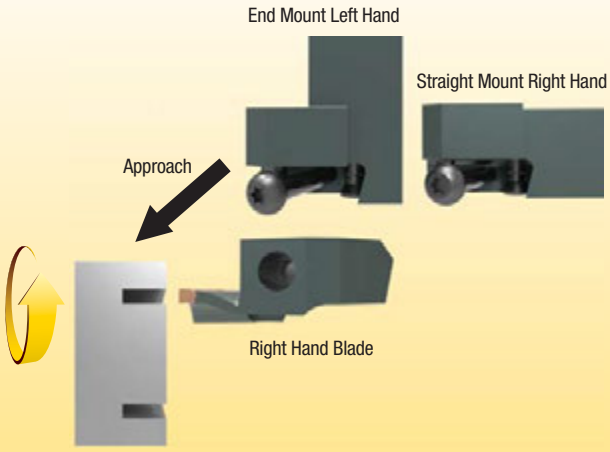
Left Hand Inboard Sweep



Right Hand Inboard Sweep



Right Hand Outboard Sweep



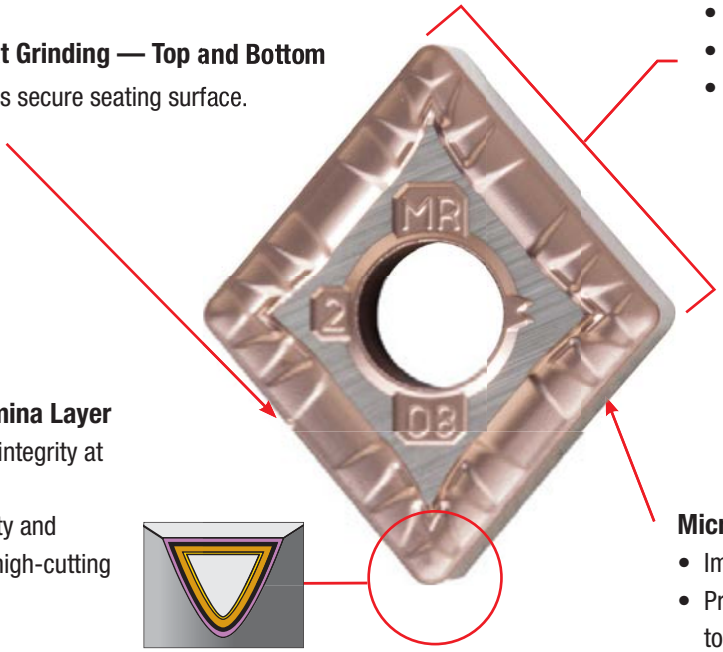
Beyond™ Drive™ Inserts

- Designed for increased productivity.
- Post-coat treatment reduces stress, improves coating adhesion.
- Excellent toughness and wear resistance.
- Better insert wear detection.

beyond™ DRIVE™

Post-Coat Treatment
- Improves edge toughness.
- Long predictable tool life.
- Reduces depth-of-cut notching.
- Wide range of applications.

Post-Coat Grinding — Top and Bottom
- Provides secure seating surface.



Fine-Grained Alumina Layer
- Provides coating integrity at elevated speeds.
- Higher productivity and dependability at high-cutting temperatures.

TiN/MT-TiCN/TiCN/Al_2O_3/TiOCN

Micro-Polished Edges
- Improves edge toughness.
- Provides smooth outer surface to reduce forces, friction, and workpiece sticking.

Experience the advantages at your Authorized Kennametal Distributor or at **kennametal.com**.

KENNAMETAL®

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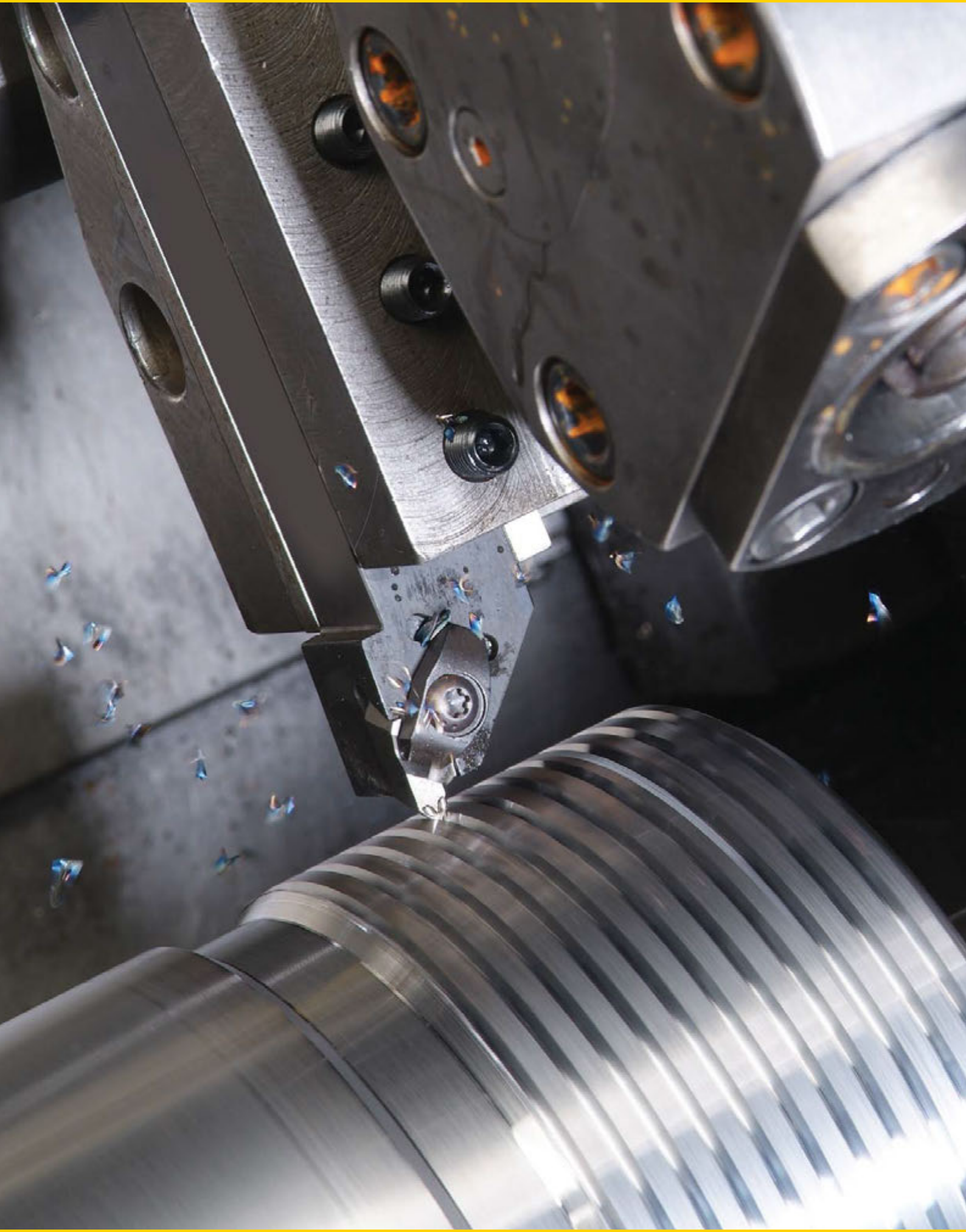


Threading

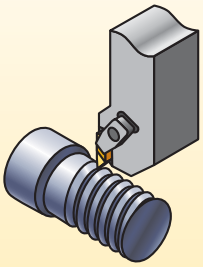
Threading Application Guide D2–D3

Top Notch Threading D4–D42

Laydown Threading D44–D79

Threading Technical Information D81–D105

Top Notch External Threading

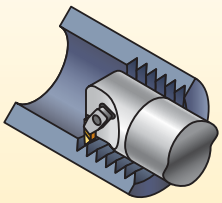


Square Shank Toolholder Sizes:
- Inch — .375–1.5"
- Metric — 10–32mm

Cresting (Full Profile):
UN TPI of 32–7
ISO 1,5–3,0mm pitch

60° Partial Profile — Flat Top (NTF and NTK):
UN 44–4.5 TPI
ISO 0,6–5,5mm pitch

Top Notch Internal Threading

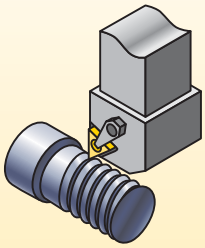


Boring Bar Diameters:
- Inch — .312–2.5"
- Metric — 10–50mm
- Minimum bore — .440" (11,5mm)
- Steel

Cresting (Full Profile):
UN 16–8 TPI
ISO 1,5–3,0mm pitch

60° Partial Profile — Flat Top (NT-1L, NTF, and NTK):
UN 24–4.5 TPI
ISO 1,0–5,5mm pitch

LT Laydown External Threading

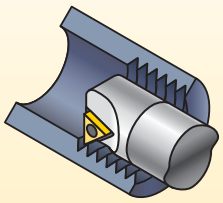


Square Shank Toolholder Sizes:
- Inch — .500–1.25"
- Metric — 8–40mm

Cresting (Full Profile):
UN 48–8 TPI
ISO 0,5–5,0mm pitch

60° Partial Profile:
UN 48–4 TPI
ISO 0,5–6,0mm pitch

LT Laydown Internal Threading



Boring Bar Diameters:
- Inch — .375–1.25"
- Metric — 12–50mm
- Minimum bore — .500" (13mm)
- Steel and carbide

Cresting (Full Profile) and Partial Profile:
UN 48–8 TPI
ISO 0,5–5,0mm pitch

60° Partial Profile:
UN 48–4 TPI
ISO 0,5–6,0mm pitch

55° Partial Profile:
UN 48–5 TPI
ISO 0,5–5,0mm pitch

Top Notch™ Thread Tooling

The Proven High-Productivity Threading Solution

Top Notch threading with Beyond™ insert technology provides consistent tool performance and superior clamping thread to almost any operation. With the largest selection of grades and geometries in the industry, the Top Notch threading system is a proven solution.

Features and Benefits

Choosing the Top Notch Threading System

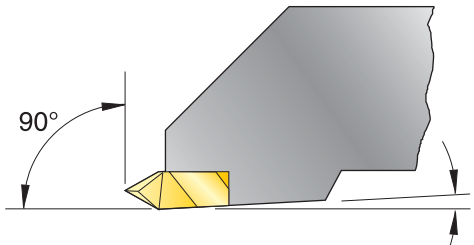
- A superior choice for heavy-duty applications like machining of Acme, Buttress, and API threads. Top Notch is also the best system for coarse pitch and multitooth threading applications.
- Largest selection of insert geometries and grades in the industry.
- A very rigid insert clamping design ensures best tool life, surface finish, and workpiece quality.
- Simplicity of the Top Notch design does not require shim selection for thread helix angles. This helps to avoid mistakes on the shop floor.
- Reduce inventory by using the same Top Notch toolholders and boring bars with either threading or grooving inserts.
- Top Notch chipbreaker inserts eliminate long troublesome coils.
- An excellent choice for special thread forms and toolholder designs.

Top Notch inserts are available in KCU10™ and KCU25™ grades to withstand the demands placed on the cutting edge of the threading insert.

The versatility of the Top Notch™ steel enables you to use both threading and grooving inserts in the same toolholder.

Precision-Ground Thread Form

- Minimizes built-up edge.
- Precisely cuts most common materials.
- Reduces cutting forces.
- Ensures accurate high-quality threads.



NOTE: Holders are designed to locate inserts inclined to 3° to provide back clearance down open side.

Superior Chip Control

- Eliminates long, troublesome coils.
- Excellent for internal threading operations.
- Available in partial profile inserts for 60° thread forms.

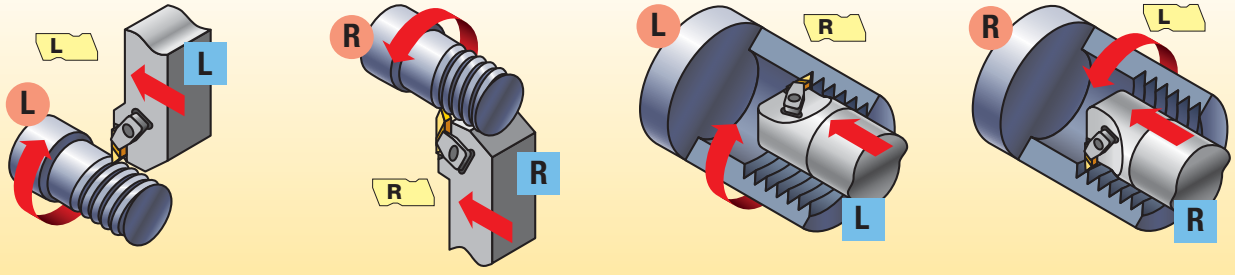
Step 1 • Select Threading Method and Hand of Tooling

Required Information:

- External/internal operation.
- Spindle rotation/hand of thread.
- Feed direction.

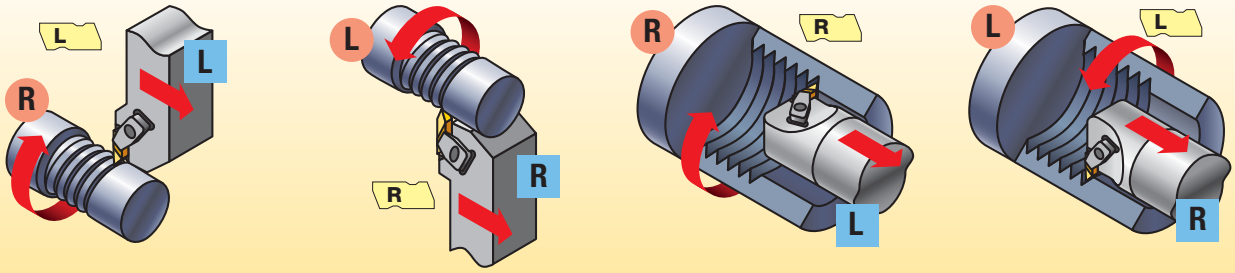
hand of thread | hand of toolholder | hand of insert

Feed direction toward the chuck • RECOMMENDED



external left-hand thread | external right-hand thread | internal left-hand thread | internal right-hand thread

Feed direction away from the chuck



external right-hand thread | external left-hand thread | internal right-hand thread | internal left-hand thread

Step 2 • Select Holder from Catalog Page

The insert size must match the gage insert size of your toolholder selection:

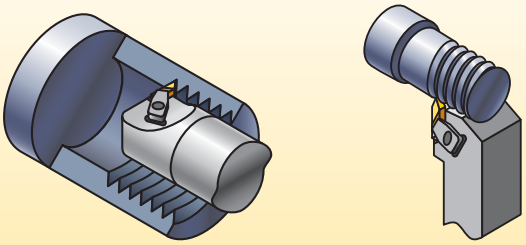
Required Information:

- External/internal operation.
- Minimum bore diameter (for internal operations).
- Hand of tool.
- Insert size (gage insert).

catalog number	gage insert
NSR-163D	N.3R
NSR-164D	N.4R

NOTE: Top Notch toolholders and boring bars are listed with a gage insert to indicate the size and hand required. They are compatible with both grooving and threading inserts of the same size.

Select the appropriate holder for the insert size and hand:

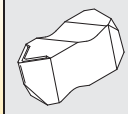


NOTE: Optimize your threading operation by using the proper infeed method and the recommended infeed values.

See the Technical section on pages D82–D105 of this catalog.
For internal threading, minimum bore varies depending on thread type.
See page D96 for details.

Step 3 • Choose Insert for Application

- See threading insert overview on page D10.
- Select cresting inserts for fully controlled thread form including diameter control. Cresting inserts eliminate the need for deburring.
- Non-cresting partial profile inserts can cut a variety of thread pitches.
- Note insert size for toolholder selection.



insert size	catalog number	KCU25/ KC5025	KCU10/ KC5010
2	**NT-2RK**	●	●
3	**NT-3RK**	●	●
4	**NT-4RK**	●	●

Step 4 • Select Grade and Speed

Recommendations for Grade and Speed Selection — m/min (SFM)

workpiece material	steel	stainless steel	cast iron	non-ferrous metals	high-temp alloys
insert style	chip control or neutral	chip control or positive	neutral	positive	positive
optimum cutting conditions	**KCU10/KC5010** 70–260 (240–850)	**KCU10/KC5010** 90–245 (300–800)	**KCU10/KC5010** 60–245 (200–800)	**KC5410** 90–550 (300–1800)	**KCU10/KC5010** 30–150 (100–500)
first choice	**KCU25/KC5025** 50–230 (160–750)	**KCU25/KC5025** 75–230 (250–750)	**KCU25/KC5025** 50–180 (160–600)	**KCU25/KC5025** 60–455 (200–1500)	**KCU25/KC5025** 20–120 (75–400)

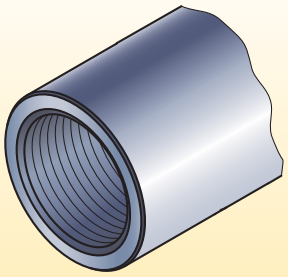
Examples:

Chip Control: NT-K or NT-CK (partial profile only)
Neutral: NT, NT-C, NTF, NTC, NJ, NJF, NDC-V, NA, NDC, NTB-A/B
Positive: NTP, NTK, NJP, NJK

Top Notch Threading Example:

application: 8 TPI Acme internal right-hand thread
material: alloy steel
workpiece diameter: 4.5" (114,3mm) good cutting conditions feed towards the chuck

Recommendation:
insert: NA3L8
grade: KCU10
insert size: 3
boring bar: A40NER3
gage insert: N.3L
speed: 500 SFM (150 m/min)
infeed passes*: 12 passes



*Infeed recommendations provided in technical data section on pages D91–D95.

Recommended Starting Speeds [m/min]

Material Group		K68			KCU10/KC5010			KCU25/KC5025			KC5410		
P	0–1	–	–	–	135	**200**	260	105	**165**	230	–	–	–
	2	–	–	–	130	**190**	245	100	**150**	200	–	–	–
	3	–	–	–	105	**155**	200	75	**125**	170	–	–	–
	4	–	–	–	70	**120**	160	60	**95**	130	–	–	–
	5	–	–	–	105	**155**	200	75	**130**	170	–	–	–
	6	–	–	–	70	**120**	160	50	**90**	130	–	–	–
M	1	45	**75**	105	120	**180**	245	90	**170**	230	–	–	–
	2	35	**65**	100	90	**165**	210	75	**140**	200	–	–	–
	3	35	**65**	100	90	**165**	210	75	**135**	200	–	–	–
K	1	30	**75**	120	120	**180**	245	90	**135**	180	–	–	–
	2	25	**60**	100	90	**150**	210	70	**120**	170	–	–	–
	3	20	**55**	90	60	**105**	150	50	**85**	120	–	–	–
N	1–2	90	**245**	365	150	**365**	550	120	**305**	455	245	**425**	610
	3	45	**75**	105	90	**135**	180	60	**105**	150	90	**150**	210
	4	60	**120**	180	120	**305**	455	100	**200**	305	120	**305**	455
	5	45	**90**	150	90	**165**	245	70	**135**	195	120	**210**	305
	6	35	**75**	120	120	**210**	305	100	**170**	245	120	**245**	365
S	1	8	**25**	45	30	**70**	105	20	**40**	60	–	–	–
	2	8	**24**	40	30	**65**	100	20	**35**	45	–	–	–
	3	8	**24**	40	30	**65**	100	20	**35**	45	–	–	–
	4	9	**60**	105	55	**105**	150	45	**85**	120	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–

NOTE: FIRST choice starting speeds are in **bold** type.

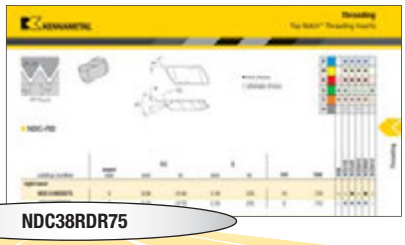
Recommended Starting Speeds [SFM]

Material Group		K68			KCU10/KC5010			KCU25/KC5025			KC5410		
P	0–1	–	–	–	450	**650**	850	350	**550**	750	–	–	–
	2	–	–	–	430	**630**	800	330	**500**	650	–	–	–
	3	–	–	–	350	**520**	650	250	**420**	550	–	–	–
	4	–	–	–	240	**400**	520	200	**310**	420	–	–	–
	5	–	–	–	350	**520**	650	250	**420**	550	–	–	–
	6	–	–	–	240	**400**	520	160	**300**	420	–	–	–
M	1	150	**250**	350	400	**600**	800	300	**550**	750	–	–	–
	2	120	**220**	320	300	**550**	700	250	**470**	650	–	–	–
	3	120	**220**	320	300	**550**	700	250	**450**	650	–	–	–
K	1	100	**250**	400	400	**600**	800	300	**450**	600	–	–	–
	2	80	**200**	320	300	**500**	700	240	**400**	560	–	–	–
	3	60	**180**	300	200	**350**	500	160	**280**	400	–	–	–
N	1–2	300	**800**	1200	500	**1200**	1800	400	**1000**	1500	800	**1400**	2000
	3	150	**250**	350	300	**450**	600	200	**350**	500	300	**500**	700
	4	200	**400**	600	400	**1000**	1500	320	**660**	1000	400	**1000**	1500
	5	150	**300**	500	300	**550**	800	240	**440**	640	400	**700**	1000
	6	120	**250**	400	400	**700**	1000	320	**560**	800	400	**800**	1200
S	1	25	**90**	150	100	**230**	350	75	**125**	200	–	–	–
	2	25	**80**	130	100	**210**	320	75	**110**	150	–	–	–
	3	25	**80**	130	100	**210**	320	75	**110**	150	–	–	–
	4	30	**200**	350	180	**350**	500	150	**280**	400	–	–	–
H	1	–	–	–	100	**150**	200	–	–	–	–	–	–
	2	–	–	–	50	**100**	150	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–

NOTE: FIRST choice starting speeds are in **bold** type.

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



NDC38RDR75

N	D	C	3	8RD	R	75	
Type of Insert	Insert	Additional Information	Insert Size	Industry Thread Identification	Hand of Insert	Definition of Insert	Additional Information

N — Top Notch*

B — Buttress

F — Fine pitch

S — Stub Acme

C — Cresting

P — Positive rake

K — Fine pitch, positive

Indicates API or drilling industry form designation (e.g., 10RD, 8RD, .038) or controlled root radius threading inserts indicate the root radius in .001" increments (NJ, NJF, NJP, NJK) or M indicates metric ISO thread

R — Right hand

L — Left hand

- Threads per inch or pitch (for metric)
- "A" or "B" type Buttress insert
- Taper per foot — API threads

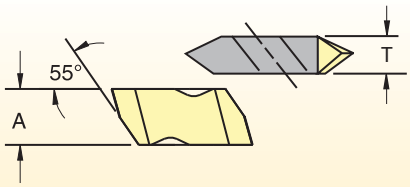
A — Acme

D — API or NPT

J — UNJ thread

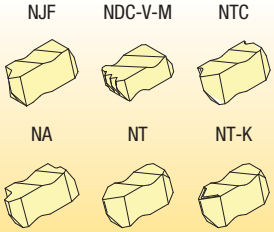
T — 60° V thread

W — 55° V Whitworth



Top Notch insert dimensions

insert size	A		T	
	inch	mm	inch	mm
1	.100	2,54	.100	2,54
2	.219	5,56	.150	3,81
3	.344	8,74	.195	4,95
4	.453	11,51	.255	6,48
5	.688	17,48	.380	9,65
6	.453	11,51	.383	9,73
8	.312	7,93	.438	11,13



I — Internal thread

E — External thread (used only if internal and external thread forms are different)

M — Multiple tooth

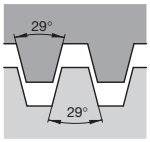
K — Standard chip control

C — Coarse pitch

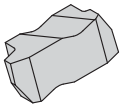
D — Dryseal

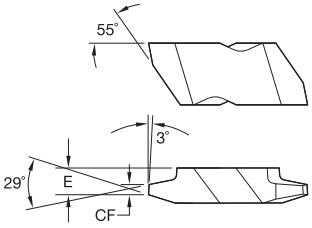
*Kennametal proprietary standard only.

style			thread profile	standard	tolerance class	cresting	application	page(s)
chip control — K	neutral	positive						
NT-K	NT	NTP	Partial Profile 60º	–	–	N	General use for 60° thread forms, such as ISO and UN, where non-cresting inserts are desired to cut a variety of pitches.	D17, D22
NT-CK			Partial Profile 60º — coarse pitch	–	–	N	Coarse pitch 60° thread forms, such as ISO and UN, where non-cresting inserts are desired to cut a variety of pitches.	D19
	NTF	NTK	Partial Profile 60º — fine pitch	–	–	N	Fine pitch 60° thread forms, such as ISO and UN, where non-cresting inserts are desired to cut a variety of pitches — able to thread close to shoulders.	D21
	NTU		Partial Profile 60º — fine pitch	–	–	N	Four-edged insert for 60º partial profile threading — requires NSU-style toolholder for size 4U insert.	D22
	NTC-M		Metric ISO	ISO R262, DIN 13	6g/6H	Y	Widely used metric 60° V-form for all industries.	D19
	NTC		American UN	ANSI B1.1:74	2A/2B	Y	Widely used inch-based 60° V-form for all industries.	D20
	NJ	NJP	UNJ	MIL-S-8879C	3A/3B	N	Controlled root radius on external threads for military and aerospace industries.	D15–D16
	NJF	NJK	UNJ — fine pitch	MIL-S-8879C	3A/3B	N	Controlled root radius on external threads for military and aerospace industries — able to thread close to shoulders.	D15–D16
	NDC-V		NPT	ANSI/ACME B1.201: 1983	Standard NPT	Y	National Pipe Thread standard forms for pipe fittings.	D14
	NDC-V-M		NPT — multitooth	ANSI/ACME B1.201: 1983	Standard NPT	Y	High-productivity multi-tooth threading inserts for NPT threads.	D14
	NWC-E		Whitworth, BSW, BSP	BS 84:1956, ISO 228/1:1982, DIN 259	Medium Class A	Y	Widely used 55° form for gas and water connections.	D23
	ND		API Rotary Shoulder Connections — partial profile	API SPEC. 7:1990	Standard API	N	60º V-form used for rotary shoulder pipe connections in the oil and gas industry including V-.038R, V-.040, and V-.050 forms.	D12
	NDC		API Rotary Shoulder Connections — cresting	API SPEC. 7:1990	Standard API	Y	60º V-form used for rotary shoulder pipe connections in the oil and gas industry including V-.038R, V-.040, and V-.050 forms — complete cresting form including taper.	D13
	NDC-RD		API Round	API STD. 5B:1979	Standard API RD	Y	60° V-form with large radius for casing, tubing, and line pipe in the oil and gas industry, including 8 and 10 round forms.	D13
	NDC-RD-M		API Round — multitooth	API STD. 5B:1979	Standard API RD	Y	High productivity multitooth threading inserts for API round threads.	D13
	NA		Acme	ANSI B1.5:1988	3G	N	29° truncated thread form for motion applications in a wide variety of industries.	D11
	NAS		Stub Acme	ANSI B1.8:1988	2G	N	Shallow depth 29° truncated thread form for motion applications in a wide variety of industries.	D12
	NTB-A		American Buttress — 7° clearance flank leading (Push)	ANSI B1.9:1973	Class 2	N	Sawtooth form for axial load bearing applications in a variety of industries — use the “A” style when the 7° clearance flank is the leading flank.	D17
	NTB-B		American Buttress — 45° clearance flank leading (Pull)	ANSI B1.9:1973	Class 2	N	Sawtooth form for axial load bearing applications in a variety of industries — use the “B” style when the 45° clearance flank is the leading flank.	D18



Acme



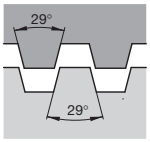


● first choice
○ alternate choice

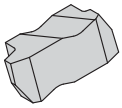
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

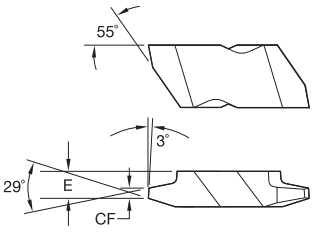
NA

catalog number	insert size	RC mm	RC in	E mm	E in	CF mm	CF in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NA3R10	3	—	—	3,79	.149	0,810	.0319	10	—	–	●	●	●	●	–
NA3R12	3	—	—	3,79	.149	0,719	.0283	12	—	–	●	–	–	●	–
NA3R16	3	—	—	3,79	.149	0,523	.0206	16	—	–	●	–	–	–	–
NA3R4	3	—	—	3,38	.133	2,222	.0875	4	—	–	–	●	●	●	–
NA3R5	3	—	—	3,79	.149	1,750	.0689	5	—	–	●	●	●	●	–
NA3R6	3	—	—	3,79	.149	1,438	.0566	6	—	–	●	●	●	●	–
NA3R8	3	—	—	3,79	.149	1,044	.0411	8	—	–	●	●	●	●	–
NA4R4	4	—	—	5,13	.202	2,223	.0875	4	—	–	–	●	●	●	–
NA4R5	4	—	—	5,13	.202	1,750	.0689	5	—	–	–	–	–	●	–
NA4R6	4	—	—	5,13	.202	1,438	.0566	6	—	–	–	–	–	●	–
NA6R25	6	—	—	7,19	.283	3,635	.1431	2.5	—	–	–	–	–	●	–
NA6R2	6	—	—	7,19	.283	4,577	.1802	2	—	–	●	●	●	●	–
NA6R3	6	—	—	7,19	.283	3,007	.1184	3	—	–	–	●	–	●	–
left hand															
NA3L8	3	—	—	3,79	.149	1,044	.0411	8	—	–	●	●	●	●	–
NA3L10	3	—	—	3,79	.149	0,810	.0319	10	—	–	–	●	–	●	–
NA3L12	3	—	—	3,79	.149	0,719	.0283	12	—	–	–	–	●	●	–
NA3L4	3	—	—	3,38	.133	2,222	.0875	4	—	●	●	●	●	●	–
NA3L5	3	—	—	3,79	.149	1,750	.0689	5	—	–	–	●	●	●	–
NA3L6	3	—	—	3,79	.149	1,438	.0566	6	—	–	–	●	●	●	–
NA4L5	4	—	—	5,13	.202	1,750	.0689	5	—	–	–	–	–	●	–
NA4L6	4	—	—	5,13	.202	1,438	.0566	6	—	–	–	–	–	●	–
NA4L8	4	—	—	5,13	.202	1,044	.0411	8	—	–	–	●	–	–	–
NA4L4	4	—	—	5,13	.202	2,223	.0875	4	—	–	●	–	–	●	–
NA6L3	6	—	—	7,19	.283	3,007	.1184	3	—	–	–	●	–	●	–
NA6L25	6	—	—	7,19	.283	3,635	.1431	2.5	—	–	–	●	–	–	–
NA6L2	6	—	—	7,19	.283	4,577	.1802	2	—	–	–	●	●	●	–
NA3L16	3	—	—	3,79	.149	0,523	.0206	16	—	–	●	–	–	–	–



Stub Acme



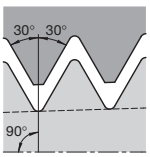


● first choice
○ alternate choice

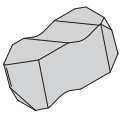
P		●	●	●	●	
M		●	●	●	●	
K	○	●	●	●	●	
N	●	●	○	○	○	●
S	●	●	●	●	●	○
H		○		○		

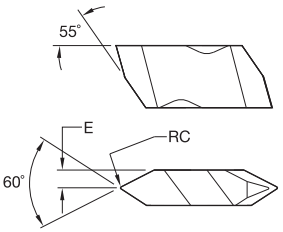
NAS

catalog number	insert size	RC mm	RC in	E mm	E in	CF mm	CF in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NAS3R10	3	–	–	3,79	.149	0,940	.0370	10	–	–	●	–	●	●	–
NAS3R12	3	–	–	3,79	.149	0,828	.0326	12	–	–	–	●	–	●	–
NAS3R16	3	–	–	3,79	.149	0,605	.0238	16	–	–	–	–	–	●	–
NAS3R4	3	–	–	3,79	.149	2,550	.1004	4	–	–	–	●	–	●	–
NAS3R5	3	–	–	3,79	.149	2,014	.0793	5	–	–	●	–	–	●	–
NAS3R6	3	–	–	3,79	.149	1,656	.0652	6	–	–	●	–	●	●	–
NAS3R8	3	–	–	3,79	.149	1,209	.0476	8	–	–	●	●	●	●	–
left hand															
NAS3L10	3	–	–	3,79	.149	0,940	.0370	10	–	–	●	–	–	●	–
NAS3L12	3	–	–	3,79	.149	0,828	.0326	12	–	–	–	–	–	●	–
NAS3L4	3	–	–	3,79	.149	2,550	.1004	4	–	–	–	●	–	●	–
NAS3L5	3	–	–	3,79	.149	2,014	.0793	5	–	–	●	–	–	●	–
NAS3L6	3	–	–	3,79	.149	1,656	.0652	6	–	–	●	●	●	●	–
NAS3L8	3	–	–	3,79	.149	1,209	.0476	8	–	–	●	●	●	●	–



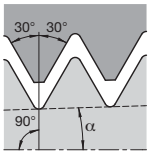
API Rotary Shoulder Connections



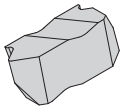


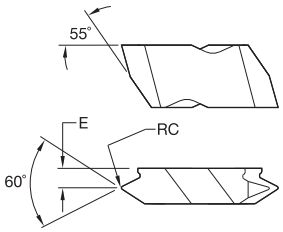
ND • Partial Profile

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
ND3040R	3	0,45	.0175	2,08	.082	5	–	–	–	–	–	●	–
ND3038R	3	0,90	.0355	2,08	.082	4	–	–	–	–	–	●	–
ND4050R	4	0,57	.0225	3,25	.128	4	–	–	–	●	–	–	–
left hand													
ND3038L	3	0,90	.0355	2,08	.082	4	–	–	–	–	–	●	–
ND3040L	3	0,45	.0175	2,08	.082	5	–	–	–	●	–	–	–



$\alpha = 1/2 \text{arctg} (\text{tpf}/12)$
API Rotary Shoulder Connections



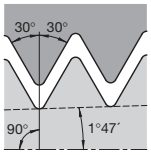


● first choice
○ alternate choice

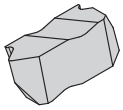
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

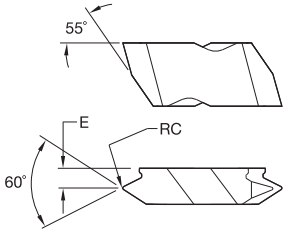
NDC • Cresting

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NDC3040R3	3	0,45	.0175	3,73	.147	5	3.000	–	–	–	–	●	–
NDC4040R3	4	0,45	.0175	3,73	.147	5	3.000	–	–	–	–	●	–
NDC4050R2	4	0,57	.0225	4,65	.183	4	2.000	–	–	–	–	●	–
NDC4050R3	4	0,57	.0225	4,65	.183	4	3.000	–	–	–	–	●	–
NDC4038R2	4	0,90	.0355	4,65	.183	4	2.000	–	–	–	–	●	–
left hand													
NDC3040L3	3	0,45	.0175	3,73	.147	5	3.000	–	–	–	●	–	–
NDC4050L2	4	0,57	.0225	4,65	.183	4	2.000	–	–	–	–	●	–
NDC4038L2	4	0,90	.0355	4,65	.183	4	2.000	–	–	–	–	●	–



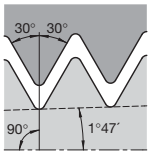
API Round



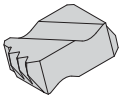


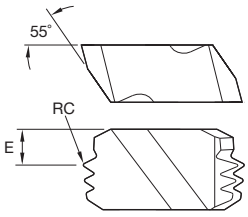
NDC-RD

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NDC310RDR75	3	0,36	.0140	3,18	.125	10	.750	–	–	–	–	●	–
NDC38RDR75	3	0,43	.0170	3,18	.125	8	.750	–	–	●	●	●	–
left hand													
NDC310RDL75	3	0,36	.0140	3,18	.125	10	.750	–	–	–	–	●	–
NDC38RDL75	3	0,43	.0170	3,18	.125	8	.750	–	–	●	●	●	–



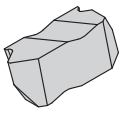
API Round

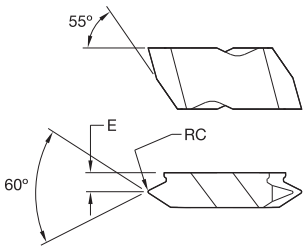




NDC-RD-M • Multitooth

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NDC68RDR75M	6	0,41	.0160	2,62	.103	8	.750	–	●	–	–	–	–



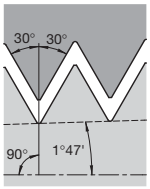


● first choice
○ alternate choice

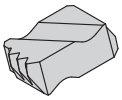
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P		●	●	●	●		
M		●	●	●	●		
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

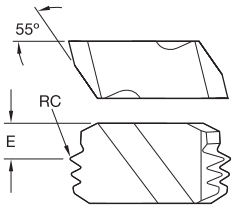
NDC-V

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NDC327VR75	3	0,05	.0020	3,66	.144	27	.750	–	●	–	–	–	–
NDC314VR75	3	0,08	.0030	3,66	.144	14	.750	–	●	–	–	–	–
NDC3115VR75	3	0,10	.0040	3,66	.144	11.5	.750	–	●	–	●	–	–
NDC38VR75	3	0,13	.0050	2,54	.100	8	.750	–	–	–	●	–	–
left hand													
NDC3115VL75	3	0,10	.0040	3,66	.144	11.5	.750	–	●	–	●	–	–
NDC38VL75	3	0,13	.0050	2,54	.100	8	.750	–	–	–	●	–	–



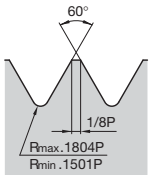
NPT



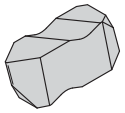


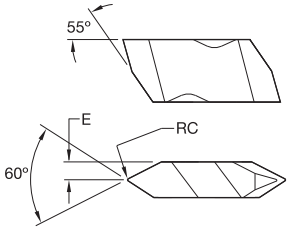
NDC-V-M • Multitooth

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NDC8115VR75M	8	0,10	.0040	2,59	.102	11.5	.750	–	●	–	–	–	–
NDC88VR75M	8	0,13	.0050	2,41	.095	8	.750	–	●	–	●	–	–
left hand													
NDC88VL75M	8	0,13	.0050	2,41	.095	8	.750	–	–	–	●	–	–



UNJ External



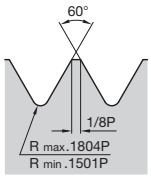


● first choice
○ alternate choice

P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

NJ

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NJ3010R16	3	0,25	.0099	2,49	.098	–	–	16	–	●	–	●	–	●	–
NJ3014R12	3	0,33	.0130	2,49	.098	–	–	12	–	–	●	●	●	●	–
NJ3020R8	3	0,49	.0193	2,49	.098	–	–	8	–	–	–	–	●	●	–
left hand															
NJ3010L16	3	0,25	.0099	2,49	.098	–	–	16	–	–	–	–	–	●	–
NJ3014L12	3	0,33	.0130	2,49	.098	–	–	12	–	–	–	–	●	●	–
NJ3020L8	3	0,49	.0193	2,49	.098	–	–	8	–	–	–	–	–	●	–



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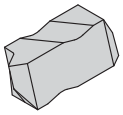
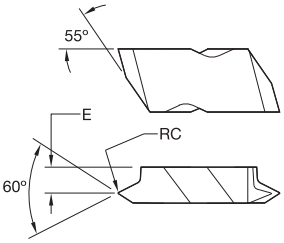
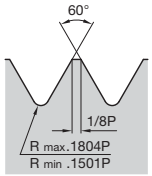




NJF

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NJF3005R32	3	0,13	.0052	3,58	.141	–	–	32	–	–	●	–	●	–	–
NJF3006R28	3	0,15	.0059	3,58	.141	–	–	28	–	–	–	–	●	●	–
NJF3007R24	3	0,17	.0068	3,58	.141	–	–	24	–	–	–	–	●	●	–
NJF3008R20	3	0,20	.0078	3,58	.141	–	–	20	–	–	–	–	●	●	–
NJF3009R18	3	0,22	.0088	3,58	.141	–	–	18	–	●	–	●	●	●	–
NJF3010R16	3	0,25	.0099	3,58	.141	–	–	16	–	–	–	–	●	●	–
NJF3012R14	3	0,28	.0112	3,58	.141	–	–	14	–	–	–	●	●	●	–
left hand															
NJF3007L24	3	0,17	.0068	3,58	.141	–	–	24	–	–	–	–	●	–	–
NJF3008L20	3	0,20	.0078	3,58	.141	–	–	20	–	–	–	–	●	–	–
NJF3010L16	3	0,25	.0099	3,58	.141	–	–	16	–	–	–	–	●	–	–



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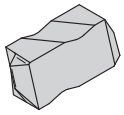
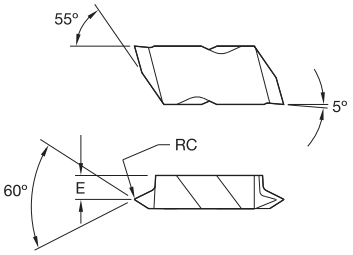


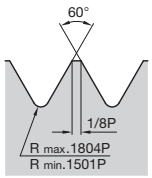


● first choice
○ alternate choice

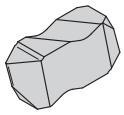
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

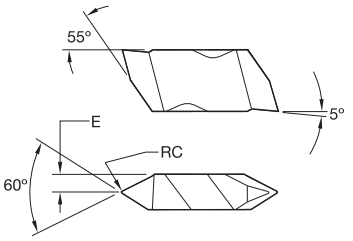
NJK

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NJK3005R32	3	0,13	.0052	3,58	.141	—	—	32	—	–	–	–	●	●	–
NJK3006R28	3	0,15	.0059	3,58	.141	—	—	28	—	–	–	●	●	–	–
NJK3007R24	3	0,17	.0068	3,58	.141	—	—	24	—	–	–	●	●	●	–
NJK3008R20	3	0,20	.0078	3,58	.141	—	—	20	—	–	●	●	●	●	–
NJK3009R18	3	0,22	.0088	3,58	.141	—	—	18	—	–	–	–	●	●	–
NJK3010R16	3	0,25	.0099	3,58	.141	—	—	16	—	–	–	●	●	●	–
NJK3012R14	3	0,28	.0112	3,58	.141	—	—	14	—	–	–	–	●	●	–
left hand															
NJK3005L32	3	0,13	.0052	3,58	.141	—	—	32	—	–	–	–	–	●	–
NJK3006L28	3	0,15	.0059	3,58	.141	—	—	28	—	–	–	–	–	●	–



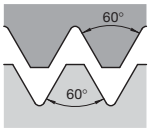
UNJ External



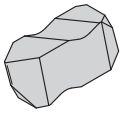


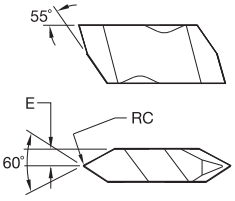
NJP

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NJP3010R16	3	0,25	.0099	2,49	.098	—	—	16	—	–	●	–	●	●	–
NJP3014R12	3	0,33	.0130	2,49	.098	—	—	12	—	●	●	●	●	●	–
NJP3020R8	3	0,49	.0193	2,49	.098	—	—	8	—	–	–	●	●	●	–
left hand															
NJP3010L16	3	0,25	.0099	2,49	.098	—	—	16	—	–	–	–	–	●	–
NJP3014L12	3	0,33	.0130	2,49	.098	—	—	12	—	–	–	–	●	–	–
NJP3020L8	3	0,49	.0193	2,49	.098	—	—	8	—	–	–	–	–	●	–



Partial Profile 60°



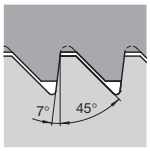


● first choice
○ alternate choice

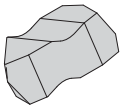
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

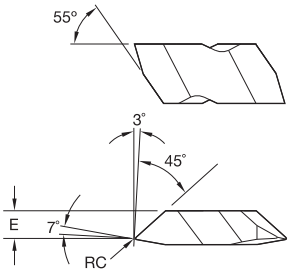
NT

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NT2R	2	0,10	.0040	1,90	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NT3R	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NT4R	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	●	●	●	●	●	–
left hand															
NT2L	2	0,10	.0040	1,90	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NT3L	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NT4L	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	●	●	●	●	●	–



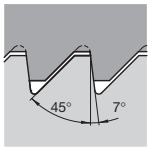
American Buttress-Push



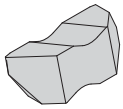


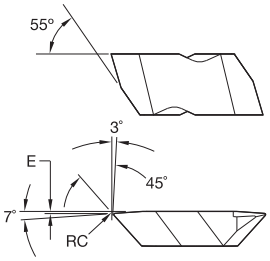
NTB-A

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NTB2RA	2	0,08	.0030	3,20	.126	16-20	—	●	–	–	–	–	–
NTB3RA	3	0,17	.0065	4,17	.164	8-16	—	–	●	–	–	●	–
NTB4RA	4	0,25	.0100	5,23	.206	4-6	—	–	●	–	–	–	–
left hand													
NTB3LA	3	0,17	.0065	4,17	.164	8-16	—	●	–	–	●	●	–



American
Buttress-Pull



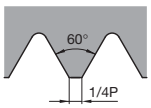


● first choice
○ alternate choice

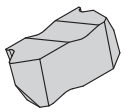
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

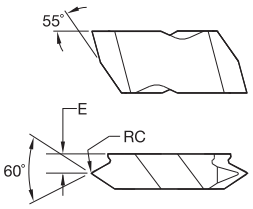
NTB-B

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NTB2RB	2	0,08	.0030	0,25	.010	16-20	–	–	–	–	●	–	–
NTB3R12B	3	0,16	.0060	2,49	.098	12	–	–	–	–	●	–	–
NTB3RB	3	0,17	.0065	0,31	.012	8-16	–	●	●	●	●	●	–
NTB4RB	4	0,25	.0100	0,41	.016	4-6	–	–	●	–	●	●	–
left hand													
NTB2LB	2	0,08	.0030	0,25	.010	16-20	–	–	●	–	●	–	–
NTB3L12B	3	0,16	.0060	2,49	.098	12	–	–	–	–	●	–	–
NTB3LB	3	0,17	.0065	0,31	.012	8-16	–	●	●	–	●	●	–
NTB4LB	4	0,25	.0100	0,41	.016	4-6	–	–	–	–	●	●	–



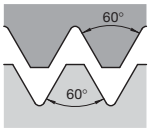
American
UN-Internal



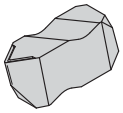


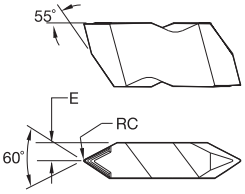
NTC-I

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTC3R12I	3	0,10	.0040	3,76	.148	–	–	–	12	–	–	–	–	●	–
left hand															
NTC3L12I	3	0,10	.0040	3,76	.148	–	–	–	12	–	–	–	–	●	–
NTC3L14I	3	0,09	.0037	3,76	.148	–	–	–	14	–	–	–	–	●	–
NTC3L16I	3	0,08	.0030	3,76	.148	–	–	–	16	–	–	–	–	●	–
NTC3L8I	3	0,18	.0070	2,72	.107	–	–	–	8	–	–	–	–	●	–
NTC3L10I	3	0,13	.0052	2,72	.107	–	–	–	10	–	–	–	–	●	–



Partial Profile 60°



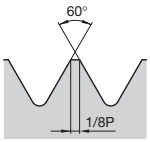


● first choice
○ alternate choice

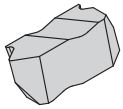
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

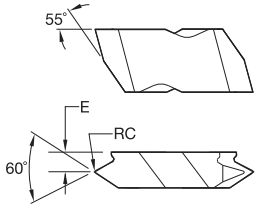
NT-CK

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NT3RCK	3	0,34	.0135	2,46	.097	2,5-4,0	4,0	6-11	6	–	●	●	●	●	–
NT4RCK	4	0,34	.0135	3,23	.127	2,5-5,5	4,0-5,5	4,5-11	4.5-6	–	–	●	●	●	–
left hand															
NT3LCK	3	0,34	.0135	2,46	.097	2,5-4,0	4,0	6-11	6	–	●	●	●	●	–
NT4LCK	4	0,34	.0135	3,23	.127	2,5-5,5	4,0-5,5	4,5-11	4.5-6	–	–	●	–	●	–



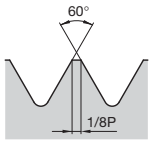
ISO Metric-External



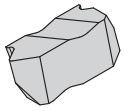


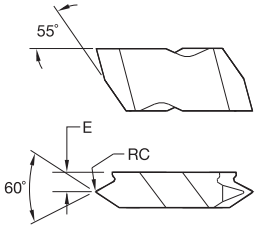
NTC-M-E

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTC3MR150E	3	0,20	.0080	3,68	.145	1,50	–	–	–	–	●	–	●	●	–
NTC3MR200E	3	0,27	.0106	3,68	.145	2,00	–	–	–	–	–	–	●	–	–



American
UN-External



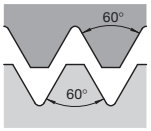


● first choice
○ alternate choice

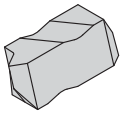
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

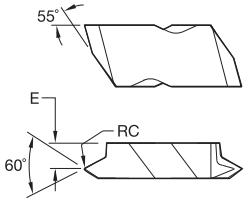
NTC-E

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTC3R32E	3	0,10	.0040	3,76	.148	—	—	32	—	–	●	–	–	●	–
NTC3R28E	3	0,12	.0046	3,76	.148	—	—	28	—	–	–	–	–	●	–
NTC3R24E	3	0,13	.0053	3,76	.148	—	—	24	—	–	–	–	●	●	–
NTC3R20E	3	0,16	.0062	3,76	.148	—	—	20	—	–	●	–	●	●	–
NTC3R18E	3	0,18	.0070	3,76	.148	—	—	18	—	–	–	●	●	●	–
NTC3R16E	3	0,19	.0075	3,76	.148	—	—	16	—	–	–	–	●	●	–
NTC3R14E	3	0,22	.0088	3,76	.148	—	—	14	—	–	–	–	●	●	–
NTC3R13E	3	0,24	.0096	3,76	.148	—	—	13	—	–	–	–	●	●	–
NTC3R12E	3	0,25	.0100	3,76	.148	—	—	12	—	–	–	●	●	●	–
NTC3R11E	3	0,28	.0111	2,72	.107	—	—	11	—	–	●	–	–	●	–
NTC3R10E	3	0,32	.0124	2,72	.107	—	—	10	—	–	–	–	●	●	–
NTC3R9E	3	0,36	.0140	2,72	.107	—	—	9	—	–	●	–	–	–	–
NTC3R8E	3	0,41	.0160	2,72	.107	—	—	8	—	–	●	–	●	●	–
NTC3R7E	3	0,47	.0186	2,72	.107	—	—	7	—	–	–	–	–	●	–
left hand															
NTC3L16E	3	0,19	.0075	3,76	.148	—	—	16	—	–	●	–	–	–	–
NTC3L12E	3	0,25	.0100	3,76	.148	—	—	12	—	–	●	–	–	–	–
NTC3L10E	3	0,32	.0124	2,72	.107	—	—	10	—	–	●	–	–	–	–
NTC3L8E	3	0,41	.0160	2,72	.107	—	—	8	—	–	–	–	●	–	–



Partial Profile 60°



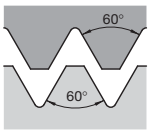


● first choice
○ alternate choice

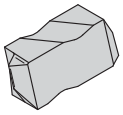
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

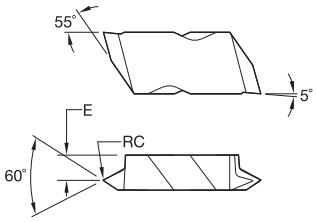
NTF

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTF2R	2	0,08	.0030	2,79	.110	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTF3R	3	0,08	.0030	3,58	.141	0,60-2,5	1,0-2,5	10-44	9-24	●	●	●	●	●	–
NTF4R	4	0,08	.0030	5,11	.201	0,60-2,5	1,0-2,5	10-44	9-24	–	–	–	–	●	–
left hand															
NTF2L	2	0,08	.0030	2,79	.110	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTF3L	3	0,08	.0030	3,58	.141	0,60-2,5	1,0-2,5	10-44	9-24	●	●	●	●	●	–



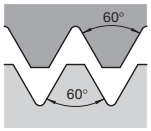
Partial Profile 60°



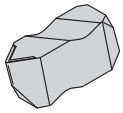


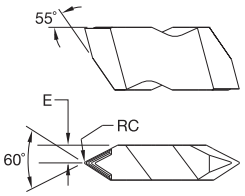
NTK

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTK2R	2	0,08	.0030	2,79	.110	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTK3R	3	0,08	.0030	3,58	.141	0,60-2,50	1,0-2,5	10-44	9-24	●	●	●	●	●	–
left hand															
NTK2L	2	0,08	.0030	2,79	.110	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTK3L	3	0,08	.0030	3,58	.141	0,60-2,50	1,0-2,5	10-44	9-24	●	●	●	●	●	–



Partial Profile 60°



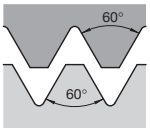


● first choice
○ alternate choice

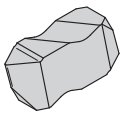
P			●	●	●	●	
M			●	●	●	●	
K	○		●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

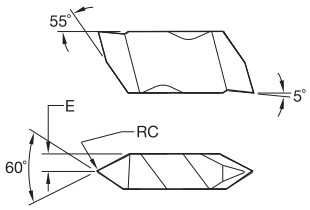
NT-K

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NT2RK	2	0,10	.0040	1,90	.075	0,70-3,0	1,25-3,5	8-36	7-20	–	●	●	●	●	–
NT3RK	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	–	●	●	●	●	–
NT4RK	4	0,16	.0065	3,24	.128	1,25-6,25	2,0-6,25	4-20	4-12	–	●	●	●	●	–
left hand															
NT2LK	2	0,10	.0040	1,90	.075	0,70-3,0	1,25-3,5	8-36	7-20	–	●	●	●	●	–
NT3LK	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	–	●	●	●	●	–
NT4LK	4	0,16	.0065	3,24	.128	1,25-6,25	2,0-6,25	4-20	4-12	–	●	●	●	●	–



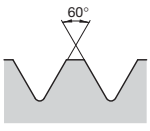
Partial Profile 60°



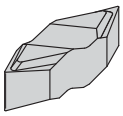


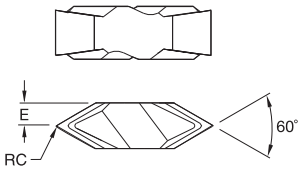
NTP

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTP2R	2	0,10	.0040	1,91	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NTP3R	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	●
NTP4R	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	–	●	●	●	●	–
left hand															
NTP2L	2	0,10	.0040	1,91	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NTP3L	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NTP4L	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	–	–	–	●	●	–



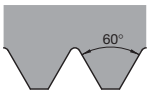
Partial Profile
60° External



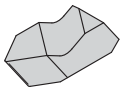


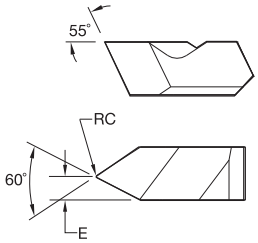
NTU

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NTU4R	4U	0,11	.0045	3,18	.125	1,25-6,25	–	4-20	–	–	–	●	–	●	–



Partial Profile
60° Internal



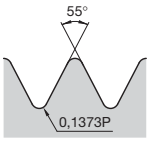


● first choice
○ alternate choice

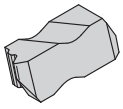
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

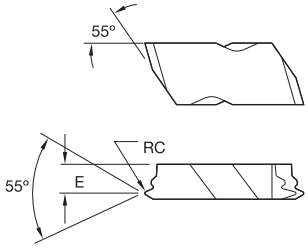
NT-1L

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
left hand															
NT1L	1	0,08	.0030	1,09	.043	–	1,0-2,0	–	12-24	●	●	●	●	●	–



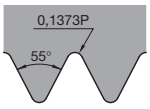
Whitworth BSW,
BSP-External



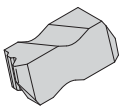


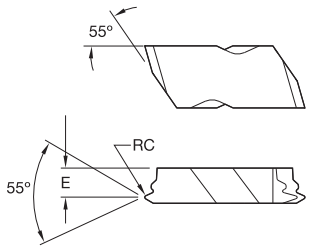
NWC-E

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NWC3R14E	3	0,24	.0093	3,43	.135	14	–	–	–	●	●	–	–
NWC3R11E	3	0,30	.0118	3,43	.135	11	–	–	–	–	●	●	–



Whitworth BSW,
BSP-Internal



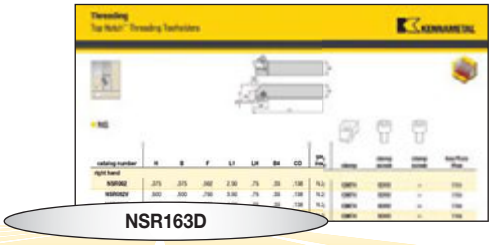


NWC-I

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
left hand													
NWC3L11I	3	0,30	.0118	3,43	.135	11	–	–	–	–	–	●	–

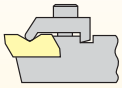
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



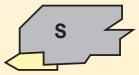
N	S	R		16	3	D
Insert Holding Method	Insert Mounting Location	Hand of Tool	Drop Head	Shank Size	Insert Size	Qualified Surface and Length

N —
Top Notch

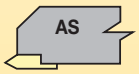


End mount

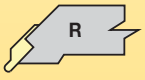
Side mount, offset



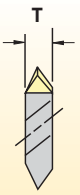
Side mount, no offset for swiss machining



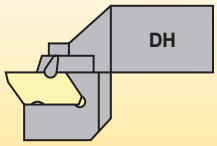
NRR undercut



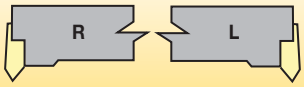
Inch:
For shanks 5/8" square and larger, the number represents the number of sixteenths of width and height. For shanks under 5/8" square, the number of sixteenths of cross section is preceded by a zero. For rectangular holders, the first digit represents the number of eighths of width and the second digit the number of quarters of height, except for a toolholder 1-1/4" x 1-1/2", which is given the number 91.



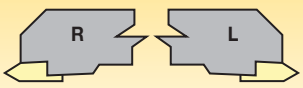
insert size	T
2	.150"
3	.195"
4	.255"
5	.380"
6	.383"
8	.438"



End mount



Side mount



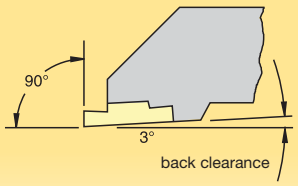
A — Qualified back and end, 4" long

B — Qualified back and end, 4.5" long

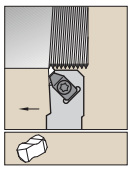
C — Qualified back and end, 5" long

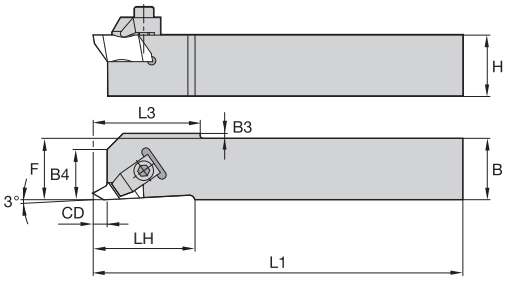
D — Qualified back and end, 6" long

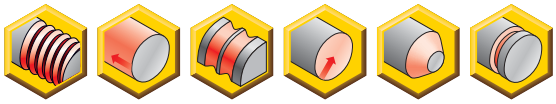
E — Qualified back and end, 7" long



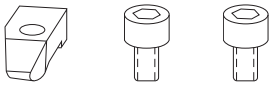
NOTE: Holders are designed to locate insert inclined to 3° to provide back clearance down open side.





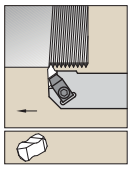


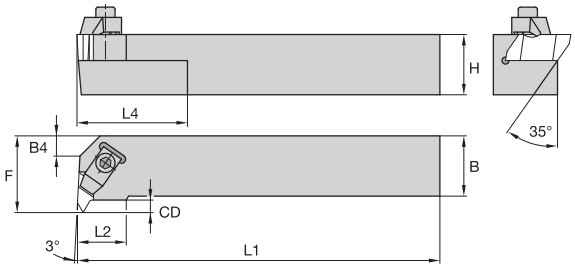
NAS

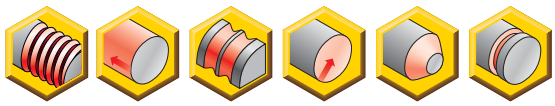


order number	catalog number	H	B	F	L1	LH	B4	CD	B3	L3	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand															
1095671	**NASR062D**	.375	.375	.375	6.00	.75	.35	.700	.070	.88	N.2R	**CM182**	**S310**	**–**	7/64
1095670	**NASR082D**	.500	.500	.500	6.00	.75	.35	.138	–	–	N.2R	**CM182**	**S310**	**–**	7/64
1095576	**NASR102B**	.625	.625	.625	4.50	.75	.35	.138	–	–	N.2R	**CM74**	**S310**	**–**	7/64
1095574	**NASR083D**	.500	.500	.500	6.00	1.25	.50	.210	.125	1.32	N.3R	**CM184LP**	**–**	**S2112**	25 IP
1095668	**NASR103B**	.625	.625	.625	4.50	1.30	–	.210	–	–	N.3R	**CM184LP**	**–**	**S2112**	25 IP
left hand															
1095675	**NASL062D**	.375	.375	.375	6.00	.75	.35	.700	.070	.88	N.2L	**CM183**	**S310**	**–**	7/64
1095674	**NASL082D**	.500	.500	.500	6.00	.75	.35	.138	–	–	N.2L	**CM183**	**S310**	**–**	7/64
1095577	**NASL102B**	.625	.625	.625	4.50	.75	.35	.138	–	–	N.2L	**CM75**	**S310**	**–**	7/64
1095575	**NASL083D**	.500	.500	.500	6.00	1.25	.50	.210	.125	1.32	N.3L	**CM185LP**	**–**	**S2112**	25 IP
1095672	**NASL103B**	.625	.625	.625	4.50	1.30	–	.210	–	–	N.3L	**CM185LP**	**–**	**S2112**	25 IP

NOTE: F dimension measured over sharp point of N-style threading insert.



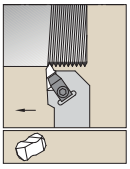


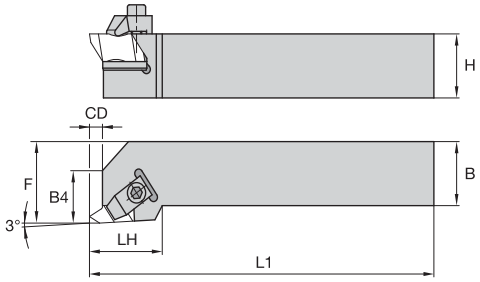


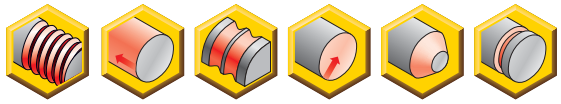
NE

order number	catalog number	H	B	F	L1	LH	B4	CD	L4	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand														
1095581	**NER062**	.375	.375	.750	2.50	.50	–	.138	1.000	N.2L	**CM75**	**S310**	–	7/64
1097577	**NER082V**	.500	.500	.750	3.50	.50	–	.138	1.000	N.2L	**CM75**	**S310**	–	7/64
1097578	**NER102B**	.625	.625	.750	4.50	–	–	.138	1.000	N.2L	**CM75**	**S310**	–	7/64
1097559	**NER122B**	.750	.750	1.000	4.50	.50	.29	.138	1.000	N.2L	**CM75**	**S310**	–	7/64
1097560	**NER162C**	1.000	1.000	1.250	5.00	.50	.41	.138	1.000	N.2L	**CM75**	**S310**	–	7/64
1097561	**NER123B**	.750	.750	1.125	4.50	.75	–	.210	2.000	N.3L	**CM73LP**	–	**S2112**	25 IP
1097562	**NER163C**	1.000	1.000	1.250	5.00	.75	–	.210	2.000	N.3L	**CM73LP**	–	**S2112**	25 IP
1097565	**NER163D**	1.000	1.000	1.250	6.00	.75	–	.210	2.000	N.3L	**CM73LP**	–	**S2112**	25 IP
1097563	**NER203D**	1.250	1.250	1.500	6.00	.75	.26	.210	2.000	N.3L	**CM73LP**	–	**S2112**	25 IP
1097566	**NER853D**	1.250	1.000	1.250	6.00	.75	–	.210	2.000	N.3L	**CM73LP**	–	**S2112**	25 IP
1097564	**NER243D**	1.500	1.500	2.000	6.00	.75	.76	.210	2.000	N.3L	**CM73LP**	–	**S2112**	25 IP
1097567	**NER164C**	1.000	1.000	1.375	5.00	.75	–	.294	2.000	N.4L	**CM73LP**	–	**S2112**	25 IP
1097570	**NER164D**	1.000	1.000	1.375	6.00	.75	–	.294	2.000	N.4L	**CM73LP**	–	**S2112**	25 IP
1097568	**NER204D**	1.250	1.250	1.625	6.00	.75	.27	.294	2.000	N.4L	**CM73LP**	–	**S2112**	25 IP
1097569	**NER244D**	1.500	1.500	2.000	6.00	.75	.65	.294	2.000	N.4L	**CM73LP**	–	**S2112**	25 IP
1097575	**NER205D**	1.250	1.250	2.000	6.00	1.44	–	.415	2.000	N.5L	**CM81**	**S352**	–	1/4
1097571	**NER206D**	1.250	1.250	1.625	6.00	.75	.27	.300	2.000	N.6L	**CM121**	**S412**	–	5/32
left hand														
1095580	**NEL062**	.375	.375	.750	2.50	.50	–	.138	1.000	N.2R	**CM74**	**S310**	–	7/64
1097247	**NEL082V**	.500	.500	.750	3.50	.50	–	.138	1.000	N.2R	**CM74**	**S310**	–	7/64
1097248	**NEL102B**	.625	.625	.750	4.50	–	–	.138	1.000	N.2R	**CM74**	**S310**	–	7/64
1097231	**NEL122B**	.750	.750	1.000	4.50	.50	.29	.138	1.000	N.2R	**CM74**	**S310**	–	7/64
1097232	**NEL162C**	1.000	1.000	1.250	5.00	.50	.41	.138	1.000	N.2R	**CM74**	**S310**	–	7/64
1097233	**NEL123B**	.750	.750	1.125	4.50	.75	–	.210	2.000	N.3R	**CM72LP**	–	**S2112**	25 IP
1097234	**NEL163C**	1.000	1.000	1.250	5.00	.75	–	.210	2.000	N.3R	**CM72LP**	–	**S2112**	25 IP
1097237	**NEL163D**	1.000	1.000	1.250	6.00	.75	–	.210	2.000	N.3R	**CM72LP**	–	**S2112**	25 IP
1097235	**NEL203D**	1.250	1.250	1.500	6.00	.75	.26	.210	2.000	N.3R	**CM72LP**	–	**S2112**	25 IP
1097238	**NEL853D**	1.250	1.000	1.250	6.00	.75	–	.210	2.000	N.3R	**CM72LP**	–	**S2112**	25 IP
1097236	**NEL243D**	1.500	1.500	2.000	6.00	.75	.76	.210	2.000	N.3R	**CM72LP**	–	**S2112**	25 IP
1097239	**NEL164C**	1.000	1.000	1.375	5.00	.75	–	.294	2.000	N.4R	**CM72LP**	–	**S2112**	25 IP
1097242	**NEL164D**	1.000	1.000	1.375	6.00	.75	–	.294	2.000	N.4R	**CM72LP**	–	**S2112**	25 IP
1097240	**NEL204D**	1.250	1.250	1.625	6.00	.75	.27	.294	2.000	N.4R	**CM72LP**	–	**S2112**	25 IP
1097241	**NEL244D**	1.500	1.500	2.000	6.00	.75	.65	.294	2.000	N.4R	**CM72LP**	–	**S2112**	25 IP
1097246	**NEL205D**	1.250	1.250	2.000	6.00	1.44	–	.415	2.000	N.5R	**CM80**	**S352**	–	1/4
1097243	**NEL206D**	1.250	1.250	1.625	6.00	.75	.27	.300	2.000	N.6R	**CM120**	**S412**	–	5/32

NOTE: F dimension measured over sharp point of N-style threading insert.



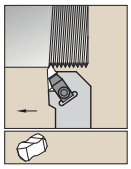


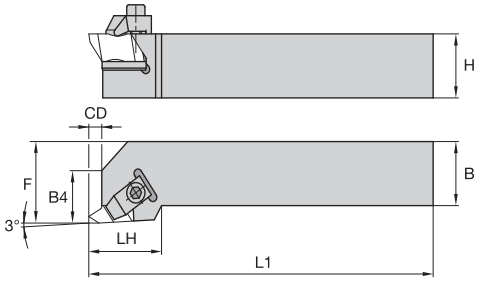


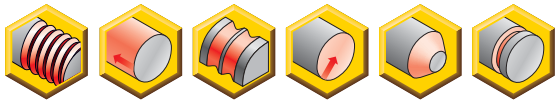
NS

order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand													
1095583	**NSR062**	.375	.375	.562	2.50	.75	.35	.138	N.2R	**CM74**	**S310**	**–**	7/64
1097608	**NSR082V**	.500	.500	.750	3.50	.75	.35	.138	N.2R	**CM74**	**S310**	**–**	7/64
1097609	**NSR102B**	.625	.625	.875	4.50	.75	.35	.138	N.2R	**CM74**	**S310**	**–**	7/64
1097584	**NSR122B**	.750	.750	1.000	4.50	.75	.35	.138	N.2R	**CM74**	**S310**	**–**	7/64
1097585	**NSR162C**	1.000	1.000	1.250	5.00	.75	.35	.138	N.2R	**CM74**	**S310**	**–**	7/64
1097590	**NSR123A**	.750	.750	1.000	4.00	1.25	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097586	**NSR123B**	.750	.750	1.000	4.50	1.25	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097587	**NSR163C**	1.000	1.000	1.250	5.00	1.25	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1016462	**NSR163D**	1.000	1.000	1.250	6.00	1.25	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097588	**NSR203D**	1.250	1.250	1.500	6.00	1.25	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097591	**NSR853D**	1.250	1.000	1.250	6.00	1.25	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097589	**NSR243D**	1.500	1.500	2.000	6.00	1.38	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097596	**NSR243E**	1.500	1.500	2.000	7.00	1.38	.50	.210	N.3R	**CM72LP**	**–**	**S2112**	25 IP
1097601	**NSR205D**	1.250	1.250	1.500	6.00	2.00	.61	.415	N.5R	**CM80**	**S352**	**–**	1/4
1016474	**NSR245D**	1.500	1.500	2.000	6.00	2.00	.61	.415	N.5R	**CM80**	**S352**	**–**	1/4
left hand													
1095582	**NSL062**	.375	.375	.562	2.50	.75	.35	.138	N.2L	**CM75**	**S310**	**–**	7/64
1097278	**NSL082V**	.500	.500	.750	3.50	.75	.35	.138	N.2L	**CM75**	**S310**	**–**	7/64
1097279	**NSL102B**	.625	.625	.875	4.50	.75	.35	.138	N.2L	**CM75**	**S310**	**–**	7/64
1097254	**NSL122B**	.750	.750	1.000	4.50	.75	.35	.138	N.2L	**CM75**	**S310**	**–**	7/64
1097255	**NSL162C**	1.000	1.000	1.250	5.00	.75	.35	.138	N.2L	**CM75**	**S310**	**–**	7/64
1097261	**NSL123A**	.750	.750	1.000	4.00	1.25	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097256	**NSL123B**	.750	.750	1.000	4.50	1.25	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097257	**NSL163C**	1.000	1.000	1.250	5.00	1.25	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097260	**NSL163D**	1.000	1.000	1.250	6.00	1.25	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097258	**NSL203D**	1.250	1.250	1.500	6.00	1.25	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097262	**NSL853D**	1.250	1.000	1.250	6.00	1.25	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097259	**NSL243D**	1.500	1.500	2.000	6.00	1.38	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097267	**NSL243E**	1.500	1.500	2.000	7.00	1.38	.50	.210	N.3L	**CM73LP**	**–**	**S2112**	25 IP
1097272	**NSL205D**	1.250	1.250	1.500	6.00	2.00	.61	.415	N.5L	**CM81**	**S352**	**–**	1/4

NOTE: F dimension measured over sharp point of N-style threading insert.



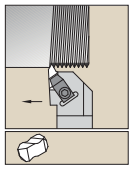


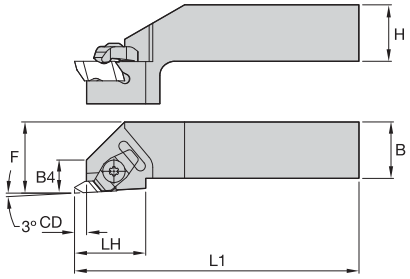


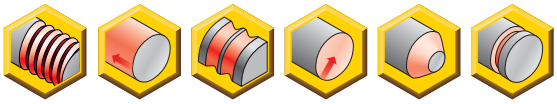
NS (with Shim)

order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	shim	shim screw	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand															
1097592	**NSR164C**	1.000	1.000	1.250	5.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097595	**NSR164D**	1.000	1.000	1.250	6.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097600	**NSR204C**	1.250	1.250	1.500	5.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097593	**NSR204D**	1.250	1.250	1.500	6.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097594	**NSR244D**	1.500	1.500	2.000	6.00	1.50	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097597	**NSR244E**	1.500	1.500	2.000	7.00	1.50	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097598	**NSR854D**	1.250	1.000	1.250	6.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097599	**NSR864E**	1.500	1.000	1.250	7.00	1.38	.54	.294	N.4R	**SM420**	**SL344**	**CM72LP**	**—**	**S2112**	25 IP
1097604	**NSR166D**	1.000	1.000	1.250	6.00	1.38	.67	.334	N.6R	**SM416**	**S111**	**CM120**	**S412**	**—**	5/32
1097602	**NSR206D**	1.250	1.250	1.500	6.00	1.38	.67	.334	N.6R	**SM416**	**S111**	**CM120**	**S412**	**—**	5/32
1097603	**NSR246D**	1.500	1.500	2.000	6.00	1.50	.67	.334	N.6R	**SM416**	**S111**	**CM120**	**S412**	**—**	5/32
1097605	**NSR168D**	1.000	1.000	1.250	6.00	1.25	.72	.225	N.8R	**SM419**	**S112**	**CM144**	**S422**	**—**	3/16
left hand															
1097263	**NSL164C**	1.000	1.000	1.250	5.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097266	**NSL164D**	1.000	1.000	1.250	6.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097271	**NSL204C**	1.250	1.250	1.500	5.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097264	**NSL204D**	1.250	1.250	1.500	6.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097265	**NSL244D**	1.500	1.500	2.000	6.00	1.50	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097268	**NSL244E**	1.500	1.500	2.000	7.00	1.50	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097269	**NSL854D**	1.250	1.000	1.250	6.00	1.38	.54	.294	N.4L	**SM420**	**SL344**	**CM73LP**	**—**	**S2112**	25 IP
1097275	**NSL166D**	1.000	1.000	1.250	6.00	1.38	.67	.334	N.6L	**SM416**	**S111**	**CM121**	**S412**	**—**	5/32
1097273	**NSL206D**	1.250	1.250	1.500	6.00	1.38	.67	.334	N.6L	**SM416**	**S111**	**CM121**	**S412**	**—**	5/32
1097274	**NSL246D**	1.500	1.500	2.000	6.00	1.50	.67	.334	N.6L	**SM416**	**S111**	**CM121**	**S412**	**—**	5/32

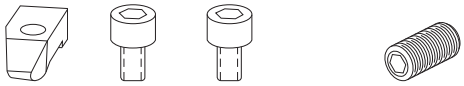
NOTE: F dimension measured over sharp point of N-style threading insert.





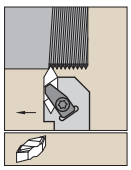


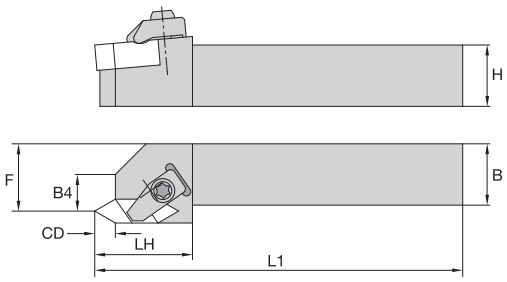
NS-DH

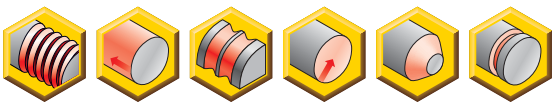


order number	catalog number	H	B	F	L1	L2	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus	jack screw	hex (inch)
right hand															
1097644	**NSRDH122B**	.750	.750	1.000	4.50	.75	.40	.130	N.2R	**CM74**	**S310**	**—**	7/64	**S1020**	**1/8**
1097645	**NSRDH162C**	1.000	1.000	1.250	5.00	.75	.40	.138	N.2R	**CM74**	**S310**	**—**	7/64	**S1020**	**1/8**
1097649	**NSRDH123A**	.750	.750	1.250	4.00	1.25	.58	.210	N.3R	**CM72LP**	**—**	**S2112**	25 IP	**—**	**—**
1097646	**NSRDH163C**	1.000	1.000	1.250	5.00	1.25	.58	.210	N.3R	**CM72LP**	**—**	**S2112**	25 IP	**—**	**—**
1097648	**NSRDH163D**	1.000	1.000	1.250	6.00	1.25	.58	.210	N.3R	**CM72LP**	**—**	**S2112**	25 IP	**—**	**—**
1097647	**NSRDH203D**	1.250	1.250	1.500	6.00	1.25	.62	.210	N.3R	**CM72LP**	**—**	**S2112**	25 IP	**S965**	**3/16**
1097650	**NSRDH204D**	1.250	1.250	1.500	6.00	1.38	.62	.294	N.4R	**CM72LP**	**—**	**S2112**	25 IP	**S965**	**3/16**
left hand															
1097681	**NSLDH203D**	1.250	1.250	1.500	6.00	1.25	.62	.210	N.3L	**CM73LP**	**—**	**S2112**	25 IP	**S965**	**3/16**

NOTE: F dimension measured over sharp point of N-style threading insert.



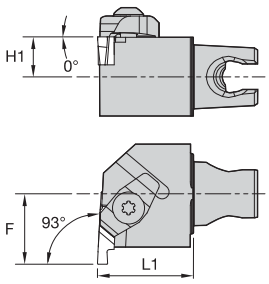


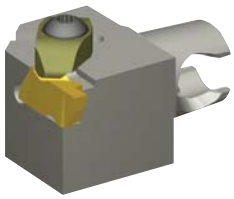


NSU

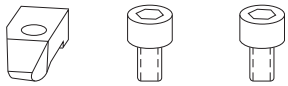
order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	hex (inch)/ Torx Plus
right hand												
1097673	**NSUR124C**	.750	.750	.875	5.00	1.25	.50	.240	NTU4R	**CM72LP**	**S2112**	25 IP
1097676	**NSUR164D**	1.000	1.000	1.125	6.00	1.25	.50	.240	NTU4R	**CM72LP**	**S2112**	25 IP
left hand												
1097680	**NSUL164D**	1.000	1.000	1.125	6.00	1.25	.50	.240	NTU4L	**CM73LP**	**S2112**	25 IP

NOTE: Toolholders only for threading inserts NTU4...
F dimension measured over sharp point of Top Notch style threading insert.

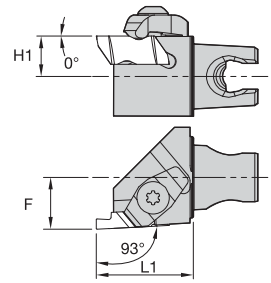




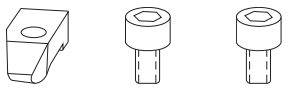
NE 93°



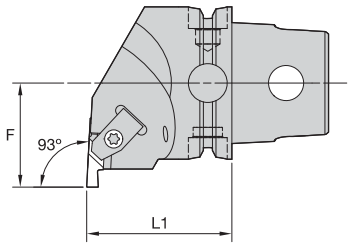
order number	catalog number	L1 mm	L1 in	F mm	F in	H1 mm	H1 in	gage insert	clamp	clamp screw	clamp screw
right hand											
2399462	**KM25NER230**	30	1.181	22	.866	12,5	.492	NG2L	**CM75**	**–**	**MS1200**
2399494	**KM25NER330**	30	1.181	22	.866	12,5	.492	NG3L	**CM73LP**	**MS2111**	**–**
2399496	**KM25NER430**	30	1.181	24	.945	12,5	.492	NG4L	**CM73LP**	**MS2111**	**–**
left hand											
2399495	**KM25NEL330**	30	1.181	22	.866	12,5	.492	NG3R	**CM72LP**	**MS2111**	**–**
2399497	**KM25NEL430**	30	1.181	24	.945	12,5	.492	NG4R	**CM72LP**	**MS2111**	**–**

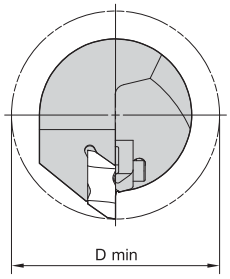


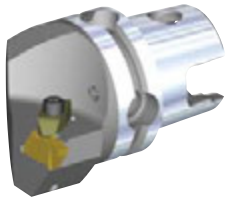
NS 93°



order number	catalog number	L1 mm	L1 in	F mm	F in	H1 mm	H1 in	gage insert	clamp	clamp screw	clamp screw
right hand											
2399498	**KM25NSR230**	30	1.181	16	.630	12,5	.492	NG2R	**CM74**	**–**	**MS1200**
2399500	**KM25NSR330**	30	1.181	16	.630	12,5	.492	NG3R	**CM72LP**	**MS2111**	**–**
left hand											
2399499	**KM25NSL230**	30	1.181	16	.630	12,5	.492	NG2L	**CM75**	**–**	**MS1200**
2399501	**KM25NSL330**	30	1.181	16	.630	12,5	.492	NG3L	**CM73LP**	**MS2111**	**–**
2399503	**KM25NSL430**	30	1.181	16	.630	12,5	.492	NG4L	**CM213LP**	**MS2111**	**–**

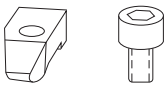




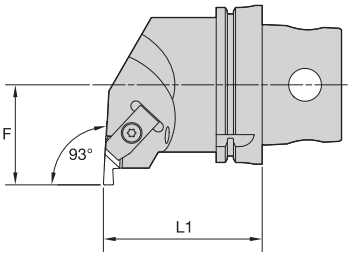


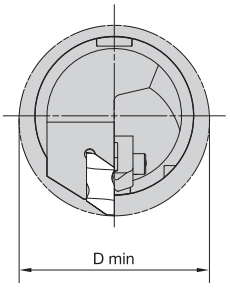
KM QUICK CHANGE

NE 93°



order number	catalog number	L1 mm	L1 in	F mm	F in	D min mm	D min in	gage insert	clamp	clamp screw	kg	lbs
right hand												
3902285	**KM40TSNER2**	40	1.575	27	1.063	54	2.126	NG2L	**CM75**	**MS1488**	0,30	.66
3902286	**KM40TSNER3**	40	1.575	27	1.063	54	2.126	NG3L	**CM73**	**MS1489**	0,30	.67
3902287	**KM40TSNER4**	40	1.575	27	1.063	54	2.126	NG4L	**CM73**	**MS1489**	0,30	.65
left hand												
3902132	**KM40TSNEL2**	40	1.575	27	1.063	54	2.126	NG2R	**CM74**	**MS1488**	0,30	.66
3902283	**KM40TSNEL3**	40	1.575	27	1.063	54	2.126	NG3R	**CM-72**	**MS1489**	0,30	.67
3902284	**KM40TSNEL4**	40	1.575	27	1.063	54	2.126	NG4R	**CM-72**	**MS1489**	0,30	.65





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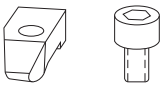
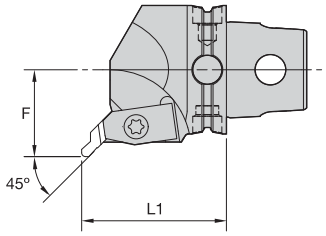
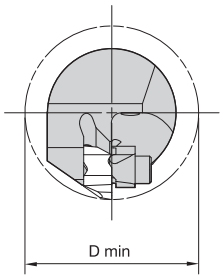
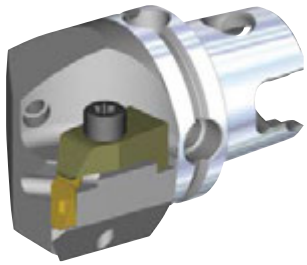


order number	catalog number	L1 mm	L1 in	F mm	F in	D min mm	D min in	gage insert	clamp	clamp screw	kg	lbs
right hand												
5337758	**KM4X100NER3**	100	3.937	63	2.480	120	4.724	NG3L	**CM73**	**MS1489**	4,45	9.80
5337759	**KM4X100NER4**	100	3.937	63	2.480	120	4.724	NG4L	**CM73**	**MS1489**	4,51	9.93
5337770	**KM4X100NER5**	100	3.937	63	2.480	120	4.724	NG5L	**CM81**	**MS1490**	4,65	10.25
5337771	**KM4X100NER6**	100	3.937	63	2.480	120	4.724	NG6L	**CM121**	**MS1489**	4,48	9.88
left hand												
5337754	**KM4X100NEL3**	100	3.937	63	2.480	120	4.724	NG3R	**CM-72**	**MS1489**	4,45	9.80
5337755	**KM4X100NEL4**	100	3.937	63	2.480	120	4.724	NG4R	**CM-72**	**MS1489**	4,51	9.93
5337756	**KM4X100NEL5**	100	3.937	63	2.480	120	4.724	NG5R	**CM80**	**MS1490**	4,65	10.25
5337757	**KM4X100NEL6**	100	3.937	63	2.480	120	4.724	NG6R	**CM120**	**MS1489**	4,48	9.88

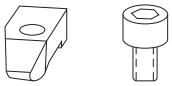
KM QUICK CHANGE





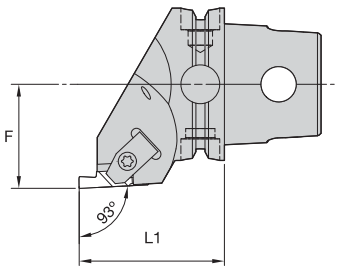


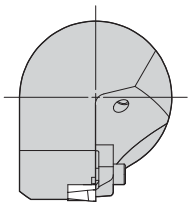
NR 45°



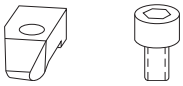
order number	catalog number	L1 mm	L1 in	F mm	F in	D min mm	D min in	gage insert	clamp	clamp screw	kg	lbs
right hand												
3902289	**KM40TSNRR3045M**	45	1.772	27	1.063	54	2.126	NU3L	**CM73**	**MS1489**	0,34	.75
left hand												
3902288	**KM40TSNRL3045M**	45	1.772	27	1.063	54	2.126	NU3R	**CM-72**	**MS1489**	0,33	.74

KM QUICK CHANGE





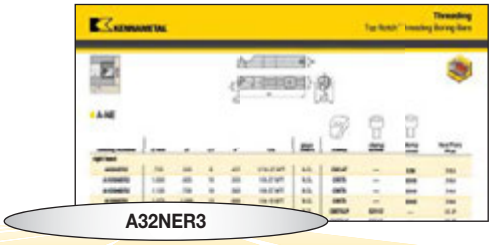
NS 93°



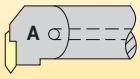
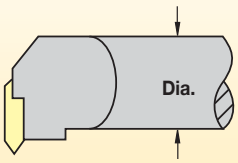
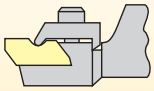
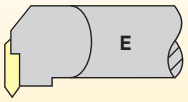
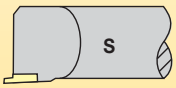
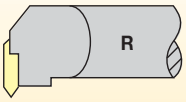
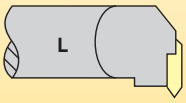
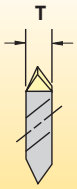
order number	catalog number	L1 mm	L1 in	F mm	F in	gage insert	clamp	clamp screw	kg	lbs
right hand										
3902293	**KM40TSNSR2**	40	1.575	27	1.063	NG2R	**CM74**	**MS1488**	0,32	.70
3902294	**KM40TSNSR3**	47	1.850	27	1.063	NG3R	**CM-72**	**MS1489**	0,32	.71
3902295	**KM40TSNSR4**	47	1.850	27	1.063	NG4R	**CM-72**	**MS1489**	0,30	.66
left hand										
3902290	**KM40TSNSL2**	40	1.575	27	1.063	NG2L	**CM75**	**MS1488**	0,32	.70
3902291	**KM40TSNSL3**	47	1.850	27	1.063	NG3L	**CM73**	**MS1489**	0,33	.72
3902292	**KM40TSNSL4**	47	1.850	27	1.063	NG4L	**CM73**	**MS1489**	0,30	.66

How Do Catalog Numbers Work?

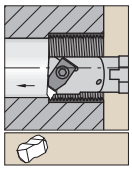
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



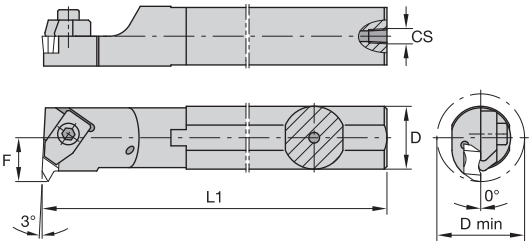
A32NER3

A	32	N	E	R	3
Bar Type	Bar Diameter	Insert Holding Method	Insert Location	Hand of Tool	Insert Size
Steel with coolant 	A two-digit number that indicates the bar diameter in 1/16" increments. 	**N** — Top Notch*  *Proprietary standard only.	**E** = End mount  **S** = Side mount 	**R** = Right hand  **L** = Left hand 	

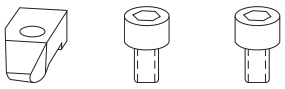
insert size	T
1	.100"
2	.150"
3	.195"
4	.255"
5	.380"
6	.383"
8	.438"



Steel shank with through coolant.

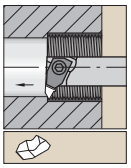


A-NE

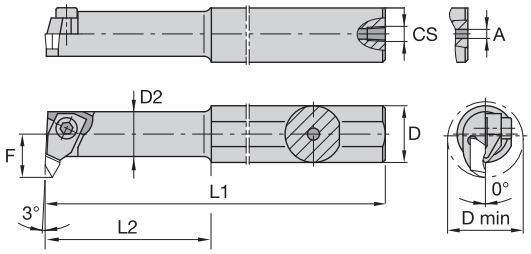


order number	catalog number	D min	D	L1	F	CS	gage insert	clamp	clamp	clamp	hex (inch)/ Torx Plus
right hand											
1094824	**A08NER2**	.730	.500	8	.437	1/16-27 NPT	N.2L	**CM147**	**—**	**S39**	7/64
1094829	**A10SNER2**	1.000	.625	10	.500	1/8-27 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094831	**A12SNER2**	1.125	.750	10	.562	1/8-27 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094833	**A16TNER2**	1.375	1.000	12	.688	1/4-18 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094835	**A16NER3**	1.375	1.000	12	.688	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094837	**A20NER3**	1.750	1.250	14	.875	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094839	**A24NER3**	2.000	1.500	14	1.000	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094841	**A28NER3**	2.250	1.750	14	1.125	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094843	**A32NER3**	2.500	2.000	16	1.250	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094845	**A40NER3**	3.000	2.500	16	1.500	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094847	**A28NER4**	2.500	1.750	14	1.250	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094849	**A32NER4**	2.750	2.000	16	1.375	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094853	**A40NER4**	3.250	2.500	16	1.625	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094859	**A32NER6**	2.750	2.000	16	1.375	1/4-18 NPT	N.6L	**CM121**	**S2112**	**—**	5/32
left hand											
1094825	**A08NEL2**	.730	.500	8	.437	1/16-27 NPT	N.2R	**CM146**	**—**	**S39**	7/64
1094830	**A10SNEL2**	1.000	.625	10	.500	1/8-27 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094832	**A12NEL2**	1.125	.750	10	.562	1/8-27 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094834	**A16TNEL2**	1.375	1.000	12	.688	1/4-18 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094836	**A16NEL3**	1.375	1.000	12	.688	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094838	**A20NEL3**	1.750	1.250	14	.875	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094840	**A24NEL3**	2.000	1.500	14	1.000	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094842	**A28NEL3**	2.250	1.750	14	1.125	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094844	**A32NEL3**	2.500	2.000	16	1.250	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094846	**A40NEL3**	3.000	2.500	16	1.500	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094848	**A28NEL4**	2.500	1.750	14	1.250	1/4-18 NPT	N.4R	**CM72LP**	**S2112**	**—**	25 IP
1094850	**A32NEL4**	2.750	2.000	16	1.375	1/4-18 NPT	N.4R	**CM72LP**	**S2112**	**—**	25 IP
1094856	**A32NEL5**	2.812	2.000	16	1.406	1/4-18 NPT	N.5R	**CM80**	**—**	**S352**	1/4
1094860	**A32NEL6**	2.750	2.000	16	1.375	1/4-18 NPT	N.6R	**CM120**	**S2112**	**—**	5/32

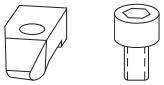
NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



Necked steel shank with through coolant.

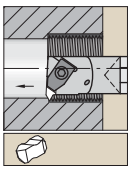


A-NE -1

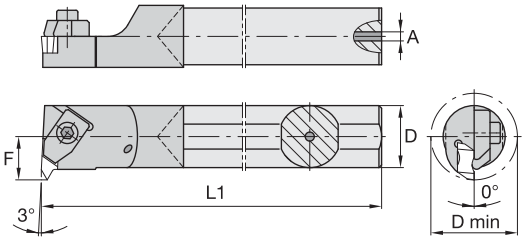


order number	catalog number	D min	D	D2	L1	L2	F	A	CS	gage insert	clamp	clamp screw	hex/ Torx Plus
right hand													
1094826	**A06NER1**	.440	.375	—	6	1.25	.258	.13	—	N.1L	**CM109**	**S304**	5/64
1094827	**A08NER1**	.440	.500	.372	8	1.29	.258	.09	1/16-27 NPT	N.1L	**CM109**	**S304**	5/64
1094828	**A10NER1**	.800	.625	—	10	—	.406	—	1/8-27 NPT	N.1L	**CM109**	**S304**	5/64

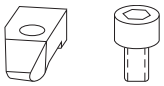
NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



Carbide shank with through coolant.

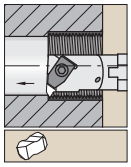


E-NE

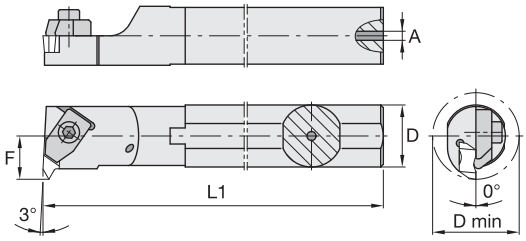


order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	hex (inch)/ Torx Plus
right hand										
1152688	**E08NER2**	.730	.500	8	.437	.19	N.2L	**CM147**	**S39**	7/64
1152606	**E10NER2**	1.000	.625	10	.500	.22	N.2L	**CM75**	**S310**	7/64
1152608	**E12NER2**	1.125	.750	10	.562	.28	N.2L	**CM75**	**S310**	7/64
1152610	**E16NER3**	1.375	1.000	12	.688	.31	N.3L	**CM73**	**S412**	25 IP
left hand										
1152689	**E08NEL2**	.730	.500	8	.437	.19	N.2R	**CM146**	**S39**	7/64
1152607	**E10NEL2**	1.000	.625	10	.500	.22	N.2R	**CM74**	**S310**	7/64
1152609	**E12NEL2**	1.125	.750	10	.562	.28	N.2R	**CM74**	**S310**	7/64
1152611	**E16NEL3**	1.375	1.000	12	.688	.31	N.3R	**CM-72**	**S412**	25 IP

NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



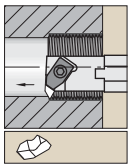
Heavy metal shank with through coolant.



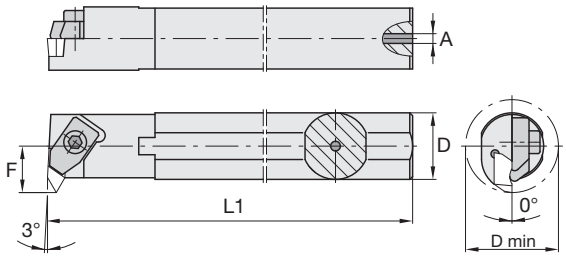
L-NE

order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand											
3331091	**L08RNER2**	.730	.500	8	.432	.16	N.2L	**CM147**	**—**	**S39**	7/64
3331103	**L10RNER2**	1.000	.625	8	.495	.16	N.2L	**CM75**	**—**	**S310**	7/64
3331092	**L12RNER2**	1.125	.750	8	.557	.16	N.2L	**CM75**	**—**	**S310**	7/64
3331105	**L16SNER3**	1.375	1.000	10	.683	.25	N.3L	**CM73LP**	**S2112**	**—**	25 IP
left hand											
3331084	**L08RNEL2**	.730	.500	8	.432	.16	N.2R	**CM146**	**—**	**S39**	7/64

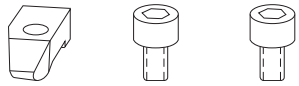
NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.



Heavy metal shank with through coolant.

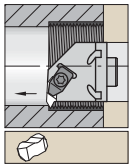


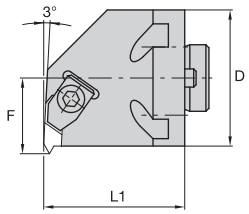
L-NE-S

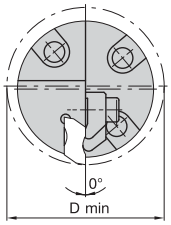


order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand											
3331089	**L08RNER1S**	.600	.500	8	.325	.16	NG1L	**CM109**	**S304**	**—**	5/64
3331090	**L05MNER1S**	.440	.310	6	.258	.09	N.1L	**CM109**	**S304**	**—**	5/64
3331088	**L06MNER1S**	.480	.370	6	.265	.13	N.1L	**CM109**	**S304**	**—**	5/64

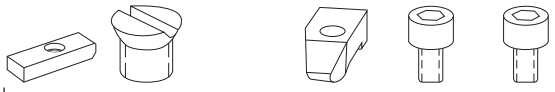
NOTE: Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.





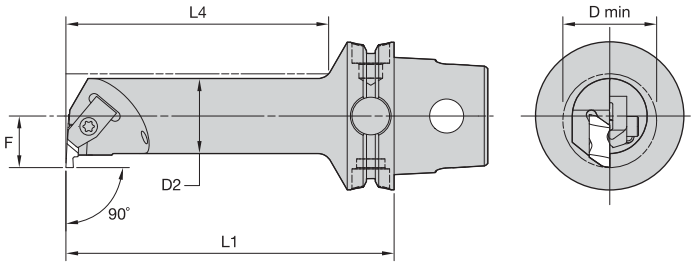


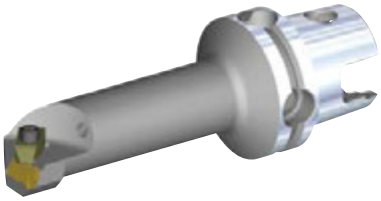
H-NE



order number	catalog number	D min	D	F	L1	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand													
1095314	**H20NER3W**	1.750	1.250	.875	1.625	N.3L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095362	**H24NER3W**	2.000	1.500	1.000	1.625	N.3L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095418	**H28NER3W**	2.250	1.750	1.125	1.625	N.3L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095456	**H32NER3W**	2.500	2.000	1.250	1.625	N.3L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095533	**H40NER3W**	3.000	2.500	1.500	1.625	N.3L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095421	**H28NER4W**	2.500	1.750	1.250	1.625	N.4L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095458	**H32NER4W**	2.750	2.000	1.375	1.625	N.4L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095516	**H36NER4W**	3.000	2.250	1.500	1.625	N.4L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095535	**H40NER4W**	3.250	2.500	1.625	1.625	N.4L	**–**	**–**	–	**CM73LP**	**S2112**	**–**	25 IP
1095452	**H28NER6W**	2.500	1.750	1.250	1.625	N.6L	**–**	**–**	–	**CM121**	**–**	**S412**	5/32
1095512	**H32NER6W**	2.750	2.000	1.375	1.625	N.6L	**–**	**–**	–	**CM121**	**–**	**S412**	5/32
1095571	**H40NER6W**	3.250	2.500	1.625	1.625	N.6L	**–**	**–**	–	**CM121**	**–**	**S412**	5/32
1095367	**H24NER8W**	2.000	1.500	1.000	1.625	N.8L	**SM427**	**S111**	1/16	**CM145**	**–**	**S422**	3/16
left hand													
1095315	**H20NEL3W**	1.750	1.250	.875	1.625	N.3R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP
1095363	**H24NEL3W**	2.000	1.500	1.000	1.625	N.3R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP
1095419	**H28NEL3W**	2.250	1.750	1.125	1.625	N.3R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP
1095457	**H32NEL3W**	2.500	2.000	1.250	1.625	N.3R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP
1095534	**H40NEL3W**	3.000	2.500	1.500	1.625	N.3R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP
1095459	**H32NEL4W**	2.750	2.000	1.375	1.625	N.4R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP
1095536	**H40NEL4W**	3.250	2.500	1.625	1.625	N.4R	**–**	**–**	–	**CM72LP**	**S2112**	**–**	25 IP

NOTE: For boring adapters, see pages B406–B409.
Minimum bore diameter (D min) capability varies with thread type and pitch. See page D96 for details.
F dimension measured over sharp point of N-style threading insert.





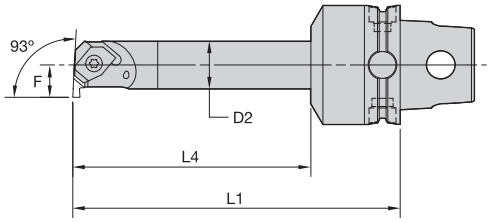
KM QUICK CHANGE

NE 90° • Steel

order number	catalog number	D2 mm	D2 in	D min mm	D min in	F mm	F in	L4 mm	L4 in	L1 mm	L1 in	gage insert	kg	lbs
right hand														
3955481	KM40TSS12ENER2	12	.472	19	.73	11	.433	42	1.655	70	2.756	NG2L	0,27	.58
3955483	KM40TSS16FNER2	16	.630	20	.79	11	.433	56	2.209	80	3.150	NG2L	0,28	.62
3955485	KM40TSS20GNER2	20	.787	25	.98	13	.512	70	2.757	90	3.543	NG2L	0,35	.76
3955487	KM40TSS25ENER2	25	.984	32	1.26	17	.669	55	2.169	70	2.756	NG2L	0,34	.75
3955491	KM40TSS25ENER3	25	.984	34	1.34	17	.669	55	2.169	70	2.756	NG3L	0,35	.77
3955489	KM40TSS25HNER2	25	.984	32	1.26	17	.669	75	2.954	100	3.937	NG2L	0,49	1.08
3955493	KM40TSS25HNER3	25	.984	34	1.34	17	.669	75	2.954	100	3.937	NG3L	0,49	1.09
3955497	KM40TSS32GNER3	32	1.260	40	1.57	22	.866	76	2.993	90	3.543	NG3L	0,55	1.21
3955495	KM40TSS32JNER3	32	1.260	40	1.57	22	.866	96	3.780	110	4.331	NG3L	0,67	1.48
left hand														
3955480	KM40TSS12ENEL2	12	.472	19	.73	11	.433	42	1.655	70	2.756	NG2R	0,27	.59
3955482	KM40TSS16FNEL2	16	.630	20	.79	11	.433	56	2.209	80	3.150	NG2R	0,28	.62
3955484	KM40TSS20GNEL2	20	.787	25	.98	13	.512	70	2.757	90	3.543	NG2R	0,35	.76
3955486	KM40TSS25ENEL2	25	.984	32	1.26	17	.669	55	2.169	70	2.756	NG2R	0,34	.75
3955490	KM40TSS25ENEL3	25	.984	34	1.34	17	.669	55	2.169	70	2.756	NG3R	0,35	.77
3955492	KM40TSS25HNEL3	25	.984	34	1.34	17	.669	75	2.954	100	3.937	NG3R	0,49	1.09
3955496	KM40TSS32GNEL3	32	1.260	40	1.57	22	.866	76	2.993	90	3.543	NG3R	0,55	1.21

Spare Parts

catalog number	clamp	clamp
right hand		
KM40TSS12ENER2	CM147	MS1488
KM40TSS16FNER2	CM147	MS1488
KM40TSS20GNER2	CM75	MS1488
KM40TSS25ENER2	CM75	MS1488
KM40TSS25ENER3	CM73	MS1489
KM40TSS25HNER2	CM75	MS1488
KM40TSS25HNER3	CM73	MS1489
KM40TSS32GNER3	CM73	MS1489
KM40TSS32JNER3	CM73	MS1489
left hand		
KM40TSS12ENEL2	CM146	MS1488
KM40TSS16FNEL2	CM146	MS1488
KM40TSS20GNEL2	CM74	MS1488
KM40TSS25ENEL2	CM74	MS1488
KM40TSS25ENEL3	CM-72	MS1489
KM40TSS25HNEL3	CM-72	MS1489
KM40TSS32GNEL3	CM-72	MS1489

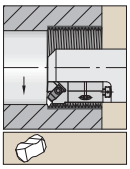


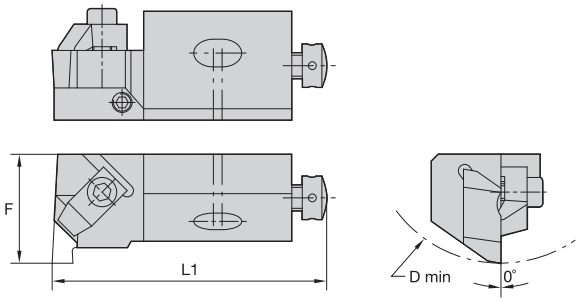
NE 90° • Carbide

order number	catalog number	D2 mm	D2 in	D min mm	D min in	F mm	F in	L4 mm	L4 in	L1 mm	L1 in	gage insert	kg	lbs
right hand														
3951836	KM40TSE16JNER2	16	.630	20	.79	11	.433	80	3.15	110	4.331	NG2L	0,41	.90
left hand														
3951835	KM40TSE16JNEL2	16	.630	20	.79	11	.433	80	3.15	110	4.331	NG2R	0,41	.90

Spare Parts

catalog number	clamp	clamp screw
right hand		
KM40TSE16JNER2	CM146	MS1488
left hand		
KM40TSE16JNEL2	CM147	MS1488



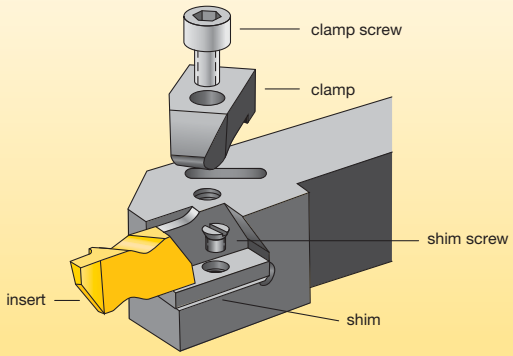


Steel Boring Cartridge • Inch

order number	catalog number	D min	F	L1	gage insert	clamp	clamp screw	hex	radial adjusting screw	hex	axial adjusting screw	hex	washer	hold down screw
right hand														
1098380	**NER12CA2**	1.969	.787	2.19	N.2L	**CM75**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	4 mm	**CSWM 060 050**	**191.406**
left hand														
1098624	**NEL12CA2**	1.969	.787	2.17	N.2R	**CM74**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	4 mm	**CSWM 060 050**	**191.406**
1098626	**NEL25CA3**	3.937	1.260	3.94	N.3R	**CM72LP**	**MS412**	4 mm	**KUAM26**	4 mm	**KUAM33**	6 mm	**CSWM 100 080**	**–**

NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.

Toolholders and Boring Bars



insert size and style	clamp	clamp screw	shim	shim screw
NG-1L	CM-109	S-304	–	–
NG-2R	CM-182	S-310	–	–
NG-2L	CM-183	S-310	–	–
NG-2R	CM-74	S-310	–	–
NG-2L	CM-75	S-310	–	–
NG-3R	CM-184	S-412	–	–
NG-3L	CM-185	S-412	–	–
NG-3R	CM-72	S-412	–	–
NG-3L	CM-73	S-412	–	–
NG-3R*	CM-78	S-412	–	–
NG-3L*	CM-70	S-412	–	–
NG-4R	CM-72	S-412	SM-420	SL-344
NG-4L	CM-73	S-412	SM-420	SL-344
NG-5R	CM-80	S-352	–	–
NG-5L	CM-81	S-352	–	–
NG-6R	CM-120	S-412	SM-416	S-111
NG-6L	CM-121	S-412	SM-416	S-111
NG-8R	CM-144	S-422	SM-419	S-112
NG-8L	CM-145	S-422	SM-419	S-112
NG-8R**	CM-144	S-422	SM-427	S-111
NG-8L**	CM-145	S-422	SM-427	S-111
Top Notch relief grooving				
NU-3125R	CM-72	S-412	–	–
NU-3125L	CM-73	S-412	–	–
NU-3125R**	CM-72	S-618	–	–
NU-3125L**	CM-73	S-618	–	–

*25mm diameter boring head.
**Boring head.

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LT • Laydown Triangle Threading

Primary Application

Laydown triangle (LT) threading is the system of choice for fine-pitch threads, high-helix/multistart threads, and single-point threading in small-diameter bores. With a wide selection of CB-style chip control inserts, you will receive superior chip management for excellent surface finishes and minimal operator intervention. The low-profile design enables unrestricted chip flow — ideal for I.D. threads. Variable shim angles enable proper cutting geometry for high-helix angle and reverse helix angle threading, maximizing tool life and improving thread quality.

Features and Benefits

Precision-Ground Thread Form on LT and LT-CB

- Minimizes built-up edge.
- Precisely cuts most common materials.
- Reduces cutting forces.
- Ensures accurate, high-quality threads.

KC5010™ and KC5025™ Premium PVD TiAlN-Coated Grades

- Increase tool life at existing machining conditions.
- Increase productivity by outperforming conventional PVD grades with up to a 30% advantage in cutting speeds.

Superior Chip Control

- Eliminates long, troublesome coils.
- Excellent for internal threading operations.
- Available in both partial and full profile inserts for all common thread forms.

Kenna Universal™ Inserts

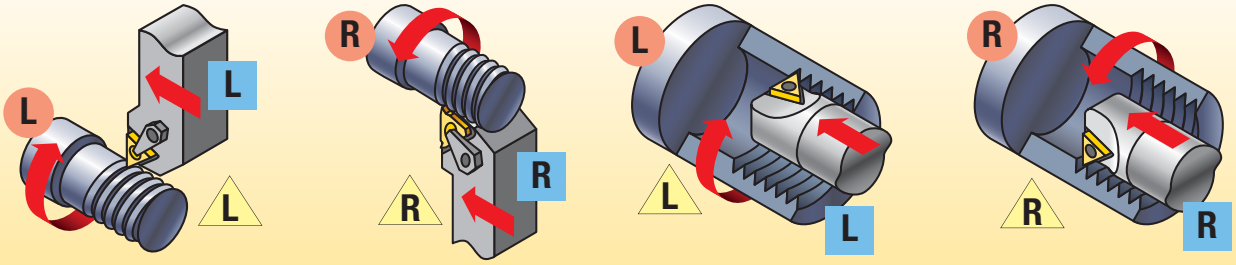
- Precision molded LT-K thread form provides outstanding utility and value.
- Excellent chip control combined with grade KU25T™ enables trouble-free threading on a variety of workpiece materials.

Step 1 • Select Threading Method and Hand of Tooling

Required Information:
- External/internal operation.
- Spindle rotation/hand of thread.
- Feed direction.

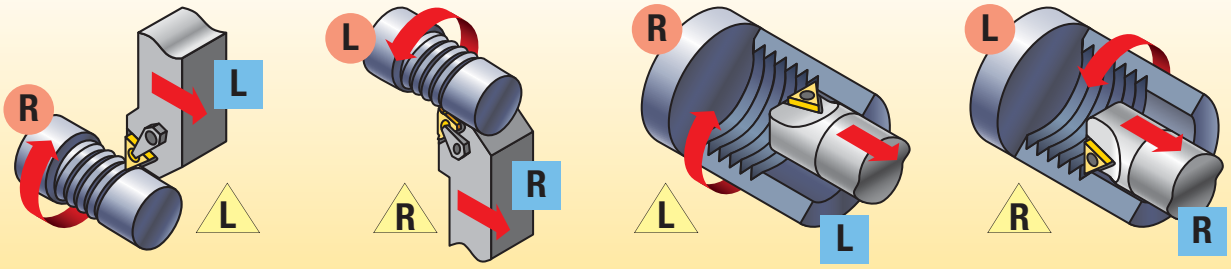
hand of thread | hand of toolholder | hand of insert

Feed direction toward the chuck • standard helix • RECOMMENDED



external left-hand thread | external right-hand thread | internal left-hand thread | internal right-hand thread

Feed direction away from the chuck • reverse helix*



external right-hand thread | external left-hand thread | internal right-hand thread | internal left-hand thread

**Negative shim required*

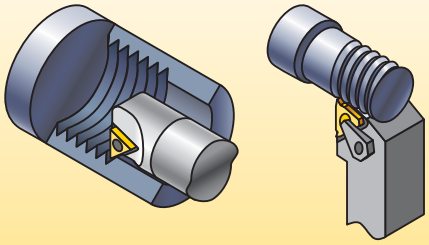
Step 2 • Select Holder from Catalog Page

Required Information:
- External/internal operation.
- Minimum bore diameter (for internal operations).
- Hand of tool.
- Insert size (gage insert).

The insert size must match the gage insert size of your toolholder selection:

catalog number	gage insert	minimum bore diameter	shim
S1212LSER3	LT16NR	.90"	SM-YI3
A2020LSER16	LT16NR	16mm	SM-YI3

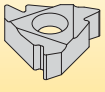
Select the appropriate holder for the insert size and hand:



Step 3 • Choose Insert for Application

- Select cresting inserts for fully controlled thread form including diameter.
- Cresting inserts eliminate the need for deburring and are optimized for the best tool life at that pitch.
- Non-cresting partial profile inserts offer the flexibility to cut a variety of thread pitches with one insert.
- Note insert size for toolholder selection.

NOTE: See threading insert overview on page D50.



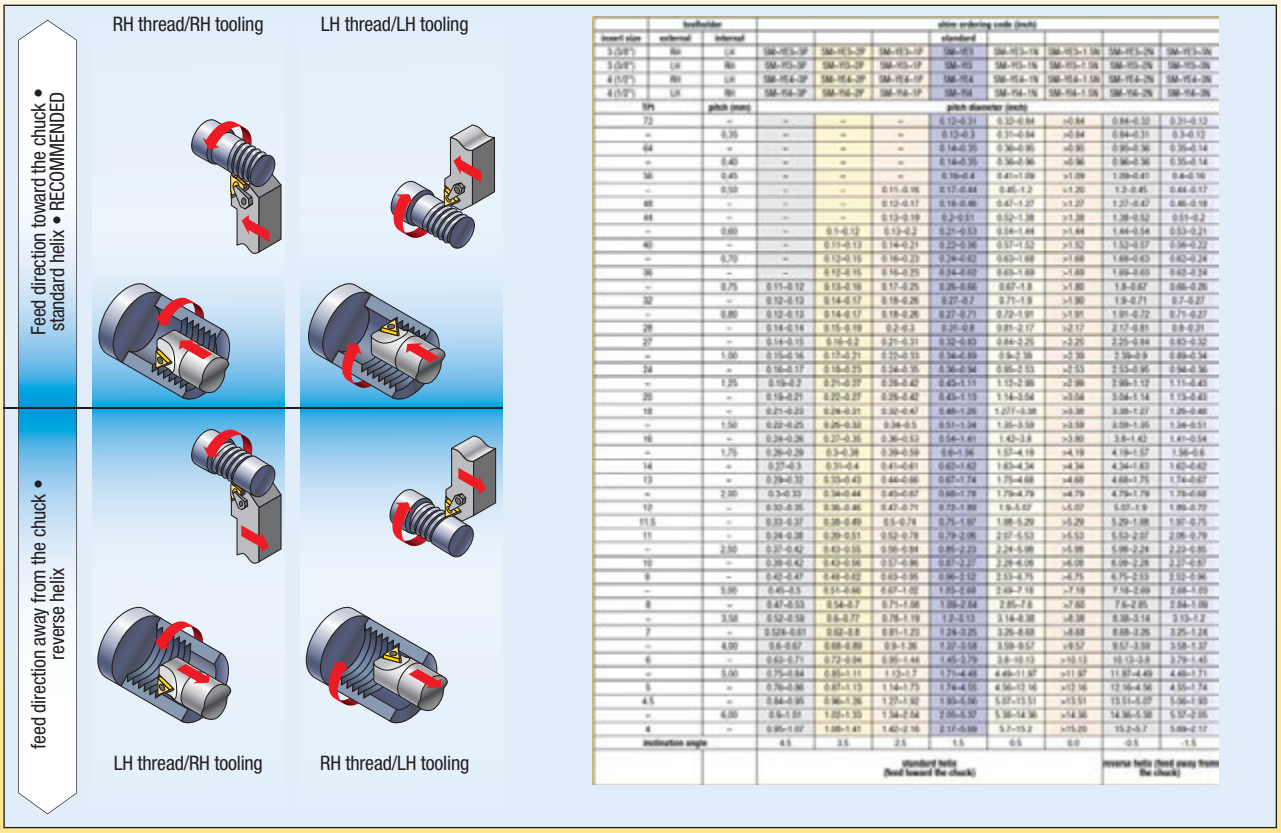
insert size	catalog number	KCU25/KC5025
11	**LT11NRA60**	•
16	**LT6NRAG60**	•

Step 4 • Select Appropriate Shim

Required Information:

- Thread form (TPI or pitch).
- Pitch diameter.
- Helix method (hand of tool, feed direction, hand of thread).
- Number of starts.

Select the proper shim: SMYE... for external RH or internal LH
SMYI... for internal RH or external LH

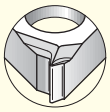
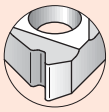
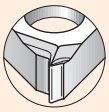
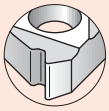


If recommended shim is different from shim supplied with toolholder, order shim separately.

NOTE: Optimize your threading operation by using the proper infeed angle and the recommended infeed values.
See the Technical Section on pages D82–D105.
Also see detailed shim selection information on pages D104–D105.

Step 5 • Select Grade and Speed

Recommendations for Grade and Speed Selection — m/min (SFM)

	workpiece material	P	M	K	N	S
Kenna Perfect™	insert style	CB chipbreaker		Flat Top 	CB chipbreaker	
	optimum cutting conditions	**KC5010** 70–260 (240–850)	**KC5010** 90–245 (300–800)	**KC5010** 60–245 (200–800)	**KC5010** 90–550 (300–1800)	**KC5010** 30–150 (100–500)
	first choice	**KC5025** 50–230 (160–750)	**KC5025** 75–230 (250–750)	**KC5025** 50–180 (160–600)	**KC5025** 60–455 (200–1500)	**KC5025** 20–120 (75–400)
Kenna Universal™	insert style	-K chipbreaker				
	selection	**KU25T** 45–210 (145–675)	**KU25T** 70–205 (225–675)	**KU25T** 45–160 (145–540)	**KU25T** 55–410 (180–1350)	**KU25T** 20–110 (70–360)

NOTE: See threading insert overview on page D50.

Recommended Starting Speeds [m/min]

Material Group		KC5010			KC5025			KU25T		
P	0–1	135	**200**	260	105	**165**	230	95	**150**	210
	2	130	**190**	245	100	**150**	200	90	**135**	180
	3	105	**155**	200	75	**125**	170	70	**115**	155
	4	70	**120**	160	60	**95**	130	55	**85**	115
	5	105	**155**	200	75	**130**	170	70	**115**	155
	6	70	**120**	160	50	**90**	130	45	**80**	115
M	1	120	**180**	245	90	**170**	230	80	**155**	205
	2	90	**165**	210	75	**140**	200	70	**125**	180
	3	90	**165**	210	75	**135**	200	70	**120**	180
K	1	120	**180**	245	90	**135**	180	80	**120**	160
	2	90	**150**	210	70	**120**	170	65	**110**	155
	3	60	**105**	150	50	**85**	120	45	**75**	110
N	1–2	150	**365**	550	120	**305**	455	110	**275**	410
	3	90	**135**	180	60	**105**	150	55	**95**	135
	4	120	**305**	455	100	**200**	305	90	**180**	275
	5	90	**165**	245	70	**135**	195	65	**120**	175
	6	120	**210**	305	100	**170**	245	90	**155**	220
S	1	30	**70**	105	20	**40**	60	20	**35**	55
	2	30	**65**	100	20	**35**	45	20	**30**	40
	3	30	**65**	100	20	**35**	45	20	**30**	40
	4	55	**105**	150	45	**85**	120	40	**75**	110
H	1	30	**45**	60	–	**–**	–	–	**–**	–
	2	15	**30**	45	–	**–**	–	–	**–**	–
	3	–	**–**	–	–	**–**	–	–	**–**	–
	4	–	**–**	–	–	**–**	–	–	**–**	–

NOTE: FIRST choice starting speeds are in **bold** type.

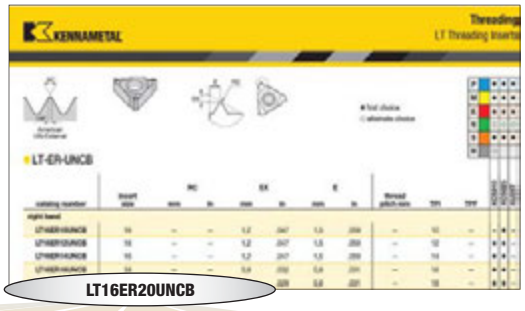
Recommended Starting Speeds [SFM]

Material Group		KC5010			KC5025			KU25T		
P	0–1	450	**650**	850	350	**550**	750	315	**495**	675
	2	430	**630**	800	330	**500**	650	300	**450**	585
	3	350	**520**	650	250	**420**	550	225	**380**	495
	4	240	**400**	520	200	**310**	420	180	**280**	380
	5	350	**520**	650	250	**420**	550	225	**380**	495
	6	240	**400**	520	160	**300**	420	145	**270**	380
M	1	400	**600**	800	300	**550**	750	270	**495**	675
	2	300	**550**	700	250	**470**	650	225	**425**	585
	3	300	**550**	700	250	**450**	650	225	**405**	585
K	1	400	**600**	800	300	**450**	600	270	**405**	540
	2	300	**500**	700	240	**400**	560	215	**360**	505
	3	200	**350**	500	160	**280**	400	145	**250**	360
N	1–2	500	**1200**	1800	400	**1000**	1500	360	**900**	1350
	3	300	**450**	600	200	**350**	500	180	**315**	450
	4	400	**1000**	1500	320	**660**	1000	290	**595**	900
	5	300	**550**	800	240	**440**	640	215	**395**	575
	6	400	**700**	1000	320	**560**	800	290	**505**	720
S	1	100	**230**	350	75	**125**	200	70	**110**	180
	2	100	**210**	320	75	**110**	150	70	**100**	135
	3	100	**210**	320	75	**110**	150	70	**100**	135
	4	180	**350**	500	150	**280**	400	135	**250**	360
H	1	100	**150**	200	–	**–**	–	–	**–**	–
	2	50	**100**	150	–	**–**	–	–	**–**	–
	3	–	**–**	–	–	**–**	–	–	**–**	–
	4	–	**–**	–	–	**–**	–	–	**–**	–

NOTE: FIRST choice starting speeds are in **bold** type.

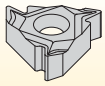
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding image to easily identify which attributes apply.



Inch

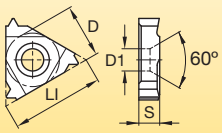
LT — Type of Insert



LT = Laydown triangle threading

16 — Cutting Edge Length *(Size)*

insert size	LI (mm)	D (inch)	D (mm)	S (inch)	S (mm)	D1 (inch)	D1 (mm)
11	11,0	.250	6,35	.126	3,20	.128	3,25
16	16,5	.375	9,52	.143	3,63	.155	3,94
22	22,0	.500	12,70	.188	4,78	.192	4,88



ER — Hand of Insert

ER = External right hand

EL = External left hand

NR = Internal right hand

NL = Internal left hand

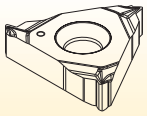
20 — Thread Pitch

partial profile		
designation	**thread pitch (mm)**	**TPI**
A	0,50–1,5	48–16
AG	0,50–3,0	48–8
G	1,75–3,0	14–8
N	3,50–5,0	7–5
full profile		
actual TPI or pitch in mm is designated	0,5–4,0	48–8

UN — Thread Profile

ISO = ISO metric 60°
UN = American UN 60°
60 = Partial profile non-cresting 60°
55 = Partial profile non-cresting 55°
W = Whitworth 55°
BSPT = British Standard Pipe Thread 55°
NPT = American National Pipe Thread 60°
ACME = American Acme
STACME = American Stub Acme
TR = Trapez DIN 103
RD = Round DIN 405
UNJ = Controlled root radius 60°
NPTF = Dryseal 60°
API = American Petroleum Institute Threads
BUT = API Buttress Casing
APIRD = API Round

CB — Chip Control



□ = Flat top

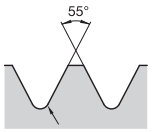
CB = Chipbreaker

K = Kenna Universal™ chipbreaker

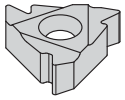
The Kennametal LT Advantage

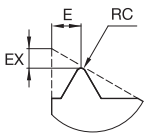
Every box of 10 inserts includes a free Torx wrench and spare locking screw, except LT-K inserts.

style			thread profile	standard	tolerance class	cresting	application	page(s)
CB	K	flat top						
LT-60CB	LT-60K	LT-60	Partial profile 60º	—	—	N	General use for 60° thread forms, such as ISO and UN, where non-cresting inserts are desired to cut a variety of pitches.	D51–D52, D60–D61
LT-ISOCB	LT-ISOK	LT-ISO	Metric ISO	ISO R262, DIN 13	6g/6H	Y	Widely used metric 60° V-form for all industries.	D54, D63–D64
LT-UNCB	LT-UNK	LT-UN	American UN	ANSI B1.1:74	2A/2B	Y	Widely used inch-based 60° V-form for all industries.	D57–D58, D67–D68
		LT-UNJ	UNJ	MIL-S-8879C	3A/3B	Y	Controlled root radius on external threads for military and aerospace industries, 60° thread form.	D58, D68
LT-NPTCB		LT-NPT	NPT	USAS B2.1:1968	Standard NPT	Y	National Pipe Thread standard 60° thread form for pipe fittings.	D55, D64–D65
LT-NPTFCB		LT-NPTF	NPTF	ANSI B1.20.3-1976	Class 2	Y	Dryseal-type NPT 60° thread form for pipe fittings.	D55–D56, D65
	LT-55K	LT-55	Partial profile 55º	—	—	N	General use for 55° thread forms such as Whitworth, BSW, and BSP where non-cresting inserts are desired to cut a variety of pitches.	D51, D60
		LT-BSPT	BSPT	BS 21:1985	Standard BSPT	Y	55° form for pipe fittings.	D53, D62
LT-WCB	LT-WK	LT-W	Whitworth, BSW, BSF, BSP	BS 84:1956, ISO 228/1:1985, DIN 259	Medium Class A	Y	Widely used 55° form for gas and water connections.	D59, D69
		LT-API	API Rotary Shoulder Connections	API SPEC. 7:1990	Standard API	Y	60° V-form used for rotary shoulder pipe connections in the oil and gas industry including V-.038R, V-.040, and V-.050 forms.	D52, D62
		LT-APIRD	API round	API STD. 5B:1979	Standard API RD	Y	60° V-form with large radius for casing, tubing, and line pipe in the oil and gas industry, including 8 and 10 round forms.	D53, D62
		LT-BUT	API Buttress Casing	API SPEC. 7:1990	Standard API	Y	45° buttress-style form used for pipe casing connections in the oil and gas industry.	D53, D62
		LT-ACME	Acme	ANSI B1.5:1988	3G	N	29° truncated thread form for motion applications in a wide variety of industries.	D52, D61
		LT-STACME	Stub Acme	ANSI B1.8:1988	2G	N	Shallow depth 29° truncated thread form for motion applications in a wide variety of industries.	D56, D66
		LT-RD	Round	DIN 405	7h/7H	Y	Round thread form for tube fittings in the chemical and food industries.	D56, D65
		LT-TR	Trapez	DIN 103	7e/7H	N	30° truncated metric thread form for motion applications.	D57, D66



Partial Profile 55°
External



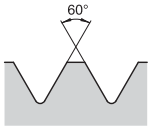


● first choice
○ alternate choice

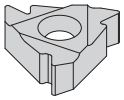
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

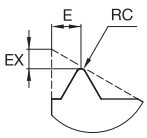
LT-ER/L-55

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ERA55	16	0,05	.0020	0,8	.031	0,89	.035	0,50-1,50	16-48	—	–	●	–
LT16ERAG55	16	0,08	.0030	1,2	.047	1,70	.067	0,50-3,00	8-48	—	●	●	–
16ERG55	16	0,20	.0080	1,2	.047	1,70	.067	1,75-3,00	8-14	—	–	●	–
LT22ERN55	22	0,43	.0170	1,7	.067	2,49	.098	3,50-5,00	5-7	—	–	●	–
left hand													
LT16ELAG55	16	0,08	.0030	1,2	.047	1,70	.067	0,50-3,00	8-48	—	–	●	–



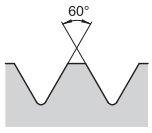
Partial Profile 60°
External



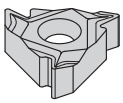


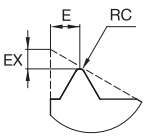
LT-ER/L-60

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ERA60	16	0,05	.002	0,8	.031	0,9	.035	0,50-1,50	16-48	—	●	●	–
LT16ERAG60	16	0,08	.003	1,2	.047	1,7	.067	0,50-3,0	8-48	—	●	–	–
16ERAG60	16	0,08	.003	1,2	.047	1,7	.067	0,50-3,0	8-48	—	–	●	–
LT16ERG60	16	0,28	.011	1,2	.047	1,7	.067	1,75-3,0	8-14	—	●	●	–
LT22ERN60	22	0,53	.021	1,7	.067	2,5	.098	3,5-5,0	5-7	—	–	●	–
left hand													
LT16ELA60	16	0,05	.002	0,8	.031	0,9	.035	0,50-1,50	16-48	—	–	●	–
LT16ELAG60	16	0,08	.003	1,2	.047	1,7	.067	0,50-3,0	8-48	—	–	●	–
LT16ELG60	16	0,28	.011	1,2	.047	1,7	.067	1,75-3,0	8-14	—	–	●	–
LT22ELN60	22	0,53	.021	1,7	.067	2,5	.098	3,5-5,0	5-7	—	–	●	–



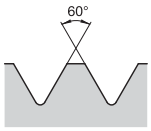
Partial Profile 60°
External



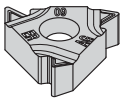


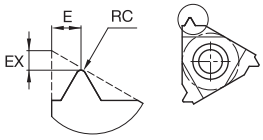
LT-ER-60CB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ERAG60CB	16	0,08	.003	0,9	.035	1,5	.059	0,50-3,0	8-48	—	●	●	–



Partial Profile 60° External



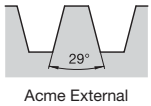


● first choice
○ alternate choice

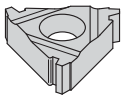
P	●	●	●
M	●	●	●
K	●	●	●
N	○	○	○
S	●	●	●
H	○		

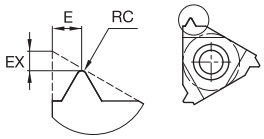
LT-ER-60K

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ERAG60K	16	0,08	.003	1,2	.047	1,7	.067	0,50-3,0	8-48	–	–	–	●



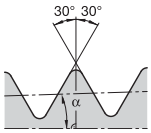
Acme External



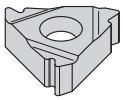


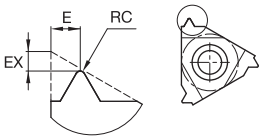
LT-ER/L-ACME

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10ACME	16	–	–	1,3	.051	1,40	.055	–	10	–	–	●	–
LT16ER12ACME	16	–	–	1,1	.043	1,19	.047	–	12	–	–	●	–
LT16ER16ACME	16	–	–	1,0	.039	1,09	.043	–	16	–	–	●	–
LT16ER8ACME	16	–	–	1,4	.055	1,50	.059	–	8	–	–	●	–
LT22ER5ACME	22	–	–	2,0	.079	2,29	.090	–	5	–	–	●	–
LT22ER6ACME	22	–	–	1,8	.071	2,11	.083	–	6	–	–	●	–



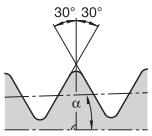
API Rotary Shoulder Connections- External
α = 1/2 arctan (TPF/12)



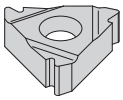


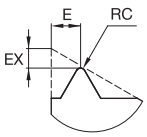
LT-ER/L-API

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT22ER4API382	22	–	–	2,1	.083	2,79	.110	–	4	2.0000	–	●	–
LT22ER4API502	22	–	–	2,0	.079	2,90	.114	–	4	2.0000	●	●	–
LT22ER4API503	22	–	–	2,0	.079	2,90	.114	–	4	3.0000	●	–	–
LT22ER5API403	22	–	–	1,8	.071	2,60	.102	–	5	3.0000	●	–	–
LT27ER4API502	28	0,64	.0250	2,0	.080	2,79	.110	–	4	–	–	●	–
LT27ER4API382	28	0,97	.0380	2,0	.080	2,79	.110	–	4	–	–	●	–



API Round-External



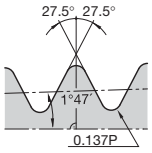


● first choice
○ alternate choice

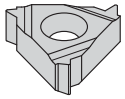
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

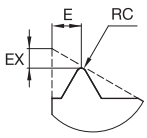
LT-ER/L-APIRD

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10APIRD	16	–	–	1,2	.047	1,40	.055	–	10	.7500	–	●	–
LT16ER8APIRD	16	–	–	1,3	.051	1,50	.059	–	8	.7500	–	●	–
left hand													
LT16EL8APIRD	16	–	–	1,3	.051	1,50	.059	–	8	.7500	–	●	–



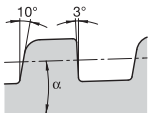
BSPT-External



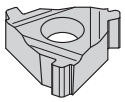


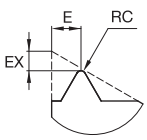
LT-ER/L-BSPT

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER11BSPT	16	–	–	1,1	.043	1,50	.059	–	11	.7500	–	●	–
LT16ER14BSPT	16	–	–	1,0	.039	1,19	.047	–	14	.7500	–	●	–



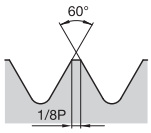
API Buttress
Casing-External
α = 1/2 arctan
(TPF/12)



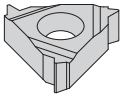


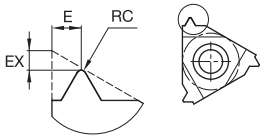
LT-ER/L-BUT

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT22ER5BUT75	22	–	–	3,1	.122	1,91	.075	–	5	.7500	–	●	–



ISO Metric-External



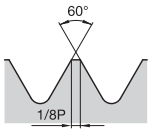


● first choice
○ alternate choice

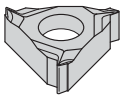
P	●	●	●
M	●	●	●
K	●	●	●
N	○	○	○
S	●	●	●
H	○		

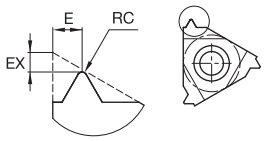
LT-ER/L-ISO

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER05ISO	16	–	–	0,6	.024	0,4	.016	0,50	–	–	–	●	–
LT16ER075ISO	16	–	–	0,6	.024	0,6	.024	0,75	–	–	–	●	–
LT16ER10ISO	16	–	–	0,7	.027	0,7	.027	1,0	–	–	●	●	–
LT16ER125ISO	16	–	–	0,8	.031	0,9	.035	1,25	–	–	●	●	–
LT16ER15ISO	16	–	–	0,8	.031	1,0	.039	1,5	–	–	●	●	–
LT16ER175ISO	16	–	–	0,9	.035	1,2	.047	1,75	–	–	●	●	–
LT16ER20ISO	16	–	–	1,0	.039	1,3	.051	2,0	–	–	●	●	–
LT16ER25ISO	16	–	–	1,1	.043	1,5	.059	2,5	–	–	●	●	–
LT16ER30ISO	16	–	–	1,2	.047	1,6	.063	3,0	–	–	●	●	–
LT22ER35ISO	22	–	–	1,6	.063	2,3	.090	3,5	–	–	–	●	–
LT22ER40ISO	22	–	–	1,6	.063	2,3	.090	4,0	–	–	–	●	–
LT22ER45ISO	22	–	–	1,7	.067	2,4	.094	4,5	–	–	–	●	–
LT22ER50ISO	22	–	–	1,7	.067	2,5	.098	5,0	–	–	–	●	–
left hand													
LT16EL15ISO	16	–	–	0,8	.031	1,0	.039	1,5	–	–	●	●	–
LT16EL175ISO	16	–	–	0,9	.035	1,2	.047	1,75	–	–	–	●	–
LT16EL20ISO	16	–	–	1,0	.039	1,3	.051	2,0	–	–	–	●	–
LT16EL25ISO	16	–	–	1,1	.043	1,5	.059	2,5	–	–	–	●	–
LT16EL30ISO	16	–	–	1,2	.047	1,6	.063	3,0	–	–	–	●	–
LT16EL05ISO	16	–	–	0,6	.024	0,4	.016	0,50	–	–	–	●	–
LT16EL075ISO	16	–	–	0,6	.024	0,6	.024	0,75	–	–	–	●	–
LT16EL10ISO	16	–	–	0,7	.027	0,7	.027	1,0	–	–	–	●	–
LT16EL125ISO	16	–	–	0,8	.031	0,9	.035	1,25	–	–	–	●	–
LT22EL35ISO	22	–	–	1,6	.063	2,3	.090	3,5	–	–	–	●	–



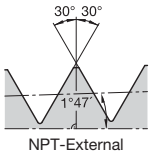
ISO Metric-External



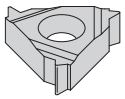


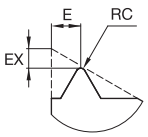
LT-ER-ISOCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER05ISOCB	16	–	–	1,2	.047	0,5	.020	0,50	–	–	●	●	–
LT16ER075ISOCB	16	–	–	1,2	.047	0,6	.024	0,75	–	–	●	●	–
LT16ER10ISOCB	16	–	–	0,7	.028	0,8	.031	1,0	–	–	●	●	–
LT16ER125ISOCB	16	–	–	0,7	.028	0,8	.031	1,25	–	–	●	●	–
LT16ER15ISOCB	16	–	–	0,7	.028	0,8	.031	1,5	–	–	●	●	–
LT16ER175ISOCB	16	–	–	1,2	.047	1,5	.059	1,75	–	–	●	●	–
LT16ER20ISOCB	16	–	–	1,2	.047	1,5	.059	2,0	–	–	●	●	–
LT16ER25ISOCB	16	–	–	1,2	.047	1,5	.059	2,5	–	–	–	●	–
LT16ER30ISOCB	16	–	–	1,3	.051	1,5	.059	3,0	–	–	●	●	–



NPT-External



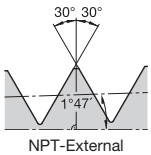


● first choice
○ alternate choice

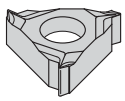
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

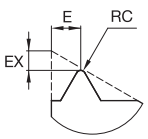
LT-ER/L-NPT

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER115NPT	16	–	–	1,1	.043	1,5	.059	–	11.5	.7500	●	●	–
LT16ER14NPT	16	–	–	0,9	.035	1,2	.047	–	14	.7500	●	●	–
LT16ER18NPT	16	–	–	0,8	.031	1,0	.039	–	18	.7500	●	●	–
LT16ER27NPT	16	–	–	0,7	.027	0,8	.031	–	27	.7500	–	●	–
LT16ER8NPT	16	–	–	1,3	.051	1,8	.071	–	8	.7500	–	●	–



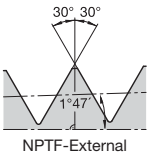
NPT-External



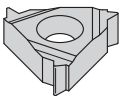


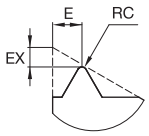
LT-ER-NPTCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER14NPTCB	16	–	–	1,1	.043	1,5	.059	–	14	.7500	●	●	–



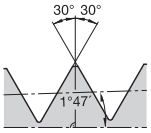
NPTF-External



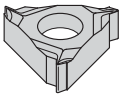


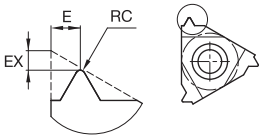
LT-ER/L-NPTF

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER115NPTF	16	–	–	1,1	.043	1,5	.059	–	11.5	.7500	–	●	–
LT16ER14NPTF	16	–	–	0,9	.035	1,2	.047	–	14	.7500	–	●	–



NPTF-External



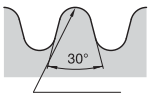


● first choice
○ alternate choice

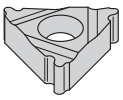
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

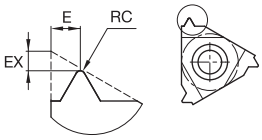
LT-ER-NPTFCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER115NPTFCB	16	–	–	1,1	.043	1,5	.059	–	11.5	.7500	–	●	–



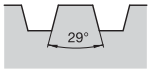
Round External



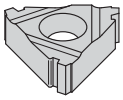


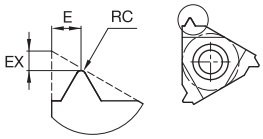
LT-ER/L-RD

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER8RD	16	0,76	.0298	1,4	.055	1,30	.051	–	8	–	–	●	–
LT22ER6RD	22	1,01	.0398	1,5	.059	1,70	.067	–	6	–	–	●	–



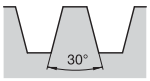
Stub Acme-External



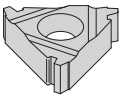


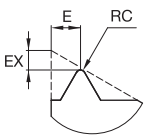
LT-ER/L-STACME

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10STACME	16	–	–	1,2	.047	1,30	.051	–	10	–	–	●	–
LT16ER12STACME	16	–	–	1,2	.047	1,19	.047	–	12	–	–	●	–
LT16ER16STACME	16	–	–	1,0	.039	0,99	.039	–	16	–	–	●	–
LT16ER6STACME	16	–	–	1,7	.067	1,80	.071	–	6	–	–	●	–
LT16ER8STACME	16	–	–	1,4	.055	1,50	.059	–	8	–	–	●	–
LT22ER5STACME	22	–	–	2,1	.083	2,29	.090	–	5	–	–	●	–



Trapez-External



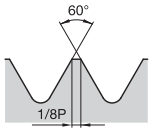


● first choice
○ alternate choice

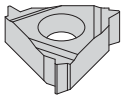
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

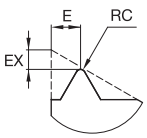
LT-ER/L-TR

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER2TR	16	–	–	1,1	.043	1,30	.051	2,0	–	–	–	●	–
LT16ER3TR	16	–	–	1,3	.051	1,50	.059	3,0	–	–	–	●	–
LT22ER4TR	22	–	–	1,7	.067	1,91	.075	4,0	–	–	–	●	–
LT22ER5TR	22	–	–	2,1	.083	2,50	.098	5,0	–	–	–	●	–



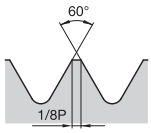
American
UN-External



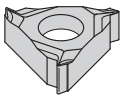


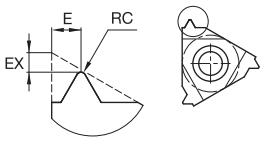
LT-ER/L-UN

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10UN	16	–	–	1,1	.043	1,5	.059	–	10	–	–	●	–
LT16ER12UN	16	–	–	1,1	.043	1,4	.055	–	12	–	●	●	–
LT16ER14UN	16	–	–	1,0	.039	1,2	.047	–	14	–	●	●	–
LT16ER16UN	16	–	–	0,9	.035	1,1	.043	–	16	–	●	●	–
LT16ER18UN	16	–	–	0,8	.031	1,0	.039	–	18	–	●	●	–
LT16ER20UN	16	–	–	0,8	.031	0,9	.035	–	20	–	●	●	–
LT16ER24UN	16	–	–	0,7	.027	0,8	.031	–	24	–	●	●	–
LT16ER28UN	16	–	–	0,6	.024	0,7	.027	–	28	–	●	●	–
LT16ER32UN	16	–	–	0,6	.024	0,6	.024	–	32	–	●	●	–
LT16ER36UN	16	–	–	0,6	.024	0,6	.024	–	36	–	–	●	–
LT16ER40UN	16	–	–	0,6	.024	0,6	.024	–	40	–	–	●	–
LT16ER48UN	16	–	–	0,6	.024	0,6	.024	–	48	–	–	●	–
LT16ER8UN	16	–	–	1,2	.047	1,6	.063	–	8	–	–	●	–
left hand													
LT16EL24UN	16	–	–	0,7	.027	0,8	.031	–	24	–	–	●	–
LT16EL28UN	16	–	–	0,6	.024	0,7	.027	–	28	–	–	●	–
LT16EL8UN	16	–	–	1,2	.047	1,6	.063	–	8	–	–	●	–
LT16EL12UN	16	–	–	1,1	.043	1,4	.055	–	12	–	–	●	–
LT16EL14UN	16	–	–	1,0	.039	1,2	.047	–	14	–	–	●	–
LT16EL16UN	16	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–
LT16EL18UN	16	–	–	0,8	.031	1,0	.039	–	18	–	–	●	–
LT16EL20UN	16	–	–	0,8	.031	0,9	.035	–	20	–	–	●	–



American
UN-External



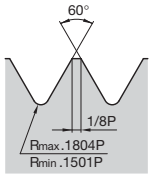


● first choice
○ alternate choice

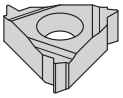
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

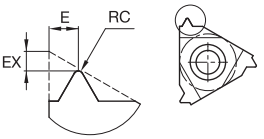
LT-ER-UNCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10UNCB	16	–	–	1,2	.047	1,5	.059	–	10	–	–	●	–
LT16ER12UNCB	16	–	–	1,2	.047	1,5	.059	–	12	–	●	●	–
LT16ER14UNCB	16	–	–	1,2	.047	1,5	.059	–	14	–	●	●	–
LT16ER16UNCB	16	–	–	0,8	.032	0,8	.031	–	16	–	●	●	–
LT16ER18UNCB	16	–	–	0,7	.028	0,8	.031	–	18	–	●	●	–
LT16ER20UNCB	16	–	–	0,7	.028	0,8	.031	–	20	–	●	●	–
LT16ER24UNCB	16	–	–	0,7	.028	0,8	.031	–	24	–	●	●	–
LT16ER28UNCB	16	–	–	0,7	.028	0,8	.031	–	28	–	●	●	–
LT16ER32UNCB	16	–	–	1,2	.047	0,5	.020	–	32	–	●	●	–
LT16ER8UNCB	16	–	–	1,3	.051	1,5	.059	–	8	–	●	●	–



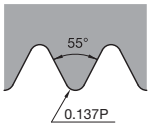
UNJ-External



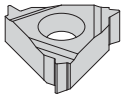


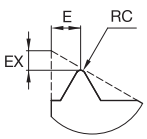
LT-ER/L-UNJ

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER12UNJ	16	–	–	1,1	.043	1,3	.051	–	12	–	●	●	–
LT16ER14UNJ	16	–	–	1,0	.039	1,2	.047	–	14	–	●	●	–
LT16ER16UNJ	16	–	–	0,9	.035	1,1	.043	–	16	–	●	●	–
LT16ER18UNJ	16	–	–	0,8	.031	1,0	.039	–	18	–	●	●	–
LT16ER20UNJ	16	–	–	0,8	.031	0,9	.035	–	20	–	●	●	–
LT16ER24UNJ	16	–	–	0,7	.027	0,8	.031	–	24	–	–	●	–
LT16ER28UNJ	16	–	–	0,7	.027	0,7	.027	–	28	–	–	●	–
LT16ER32UNJ	16	–	–	0,6	.024	0,7	.027	–	32	–	–	●	–
left hand													
LT16EL16UNJ	16	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–



Whitworth BSW,
BSF, BSP-Internal



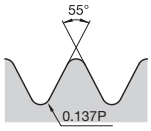


● first choice
○ alternate choice

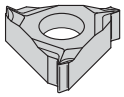
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

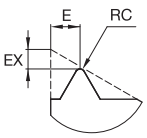
LT-ER/L-W

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10W	16	–	–	1,1	.043	1,50	.059	–	10	–	–	●	–
LT16ER11W	16	–	–	1,1	.043	1,50	.059	–	11	–	●	●	–
LT16ER12W	16	–	–	1,1	.043	1,40	.055	–	12	–	–	●	–
LT16ER14W	16	–	–	1,0	.039	1,19	.047	–	14	–	●	●	–
LT16ER16W	16	–	–	0,9	.035	1,09	.043	–	16	–	–	●	–
LT16ER18W	16	–	–	0,8	.031	0,99	.039	–	18	–	–	●	–
LT16ER19W	16	–	–	0,8	.031	0,99	.039	–	19	–	●	●	–
LT16ER20W	16	–	–	0,8	.031	0,89	.035	–	20	–	–	●	–
LT16ER24W	16	–	–	0,7	.028	0,79	.031	–	24	–	–	●	–
LT16ER28W	16	–	–	0,6	.024	0,69	.027	–	28	–	–	●	–
LT16ER8W	16	–	–	1,2	.047	1,50	.059	–	8	–	–	●	–
LT16ER9W	16	–	–	1,2	.047	1,70	.067	–	9	–	–	●	–
LT22ER6W	22	–	–	1,6	.063	2,29	.090	–	6	–	–	●	–
LT22ER7W	22	–	–	1,6	.063	2,29	.090	–	7	–	–	●	–
left hand													
LT16EL11W	16	–	–	1,1	.043	1,50	.059	–	11	–	–	●	–
LT16EL14W	16	–	–	1,0	.039	1,19	.047	–	14	–	–	●	–



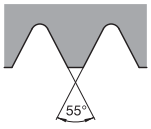
Whitworth BSW,
BSF, BSP-External



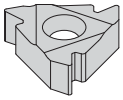


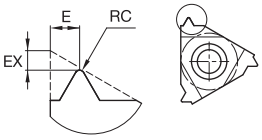
LT-ER-WCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER11WCB	16	–	–	1,3	.051	1,50	.059	–	11	–	–	●	–
LT16ER14WCB	16	–	–	1,3	.051	1,50	.059	–	14	–	●	●	–



Partial Profile 55°
Internal



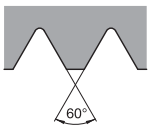


● first choice
○ alternate choice

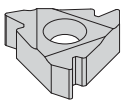
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

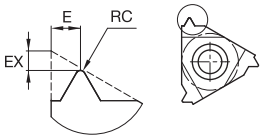
LT-NR/L-55

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NRA55	11	0,05	.0020	0,8	.031	0,89	.035	0,50-1,50	16-48	—	–	●	–
LT16NRA55	16	0,05	.0020	0,8	.031	0,89	.035	0,50-1,50	16-48	—	–	●	–
LT16NRAG55	16	0,07	.0028	1,2	.047	1,70	.067	0,50-3,00	8-48	—	–	●	–
LT16NRG55	16	0,21	.0083	1,2	.047	1,70	.067	1,75-3,00	8-14	—	–	●	–
LT22NRN55	22	0,43	.0170	1,7	.067	2,49	.098	3,50-5,00	5-7	—	–	●	–



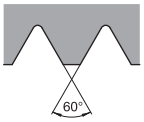
Partial Profile 60°
Internal

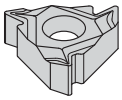




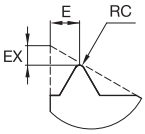
LT-NR/L-60

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NRA60	11	0,05	.002	0,8	.031	0,9	.035	0,50-1,50	48-16	—	●	●	–
LT16NRA60	16	0,05	.002	0,8	.031	0,9	.035	0,50-1,50	48-16	—	●	●	–
LT16NRAG60	16	0,05	.002	1,2	.047	1,7	.067	0,50-3,0	48-8	—	●	●	–
LT16NRG60	16	0,15	.006	1,2	.047	1,7	.067	1,75-3,0	14-8	—	●	●	–
LT22NRN60	22	0,31	.012	1,7	.067	2,5	.098	3,5-5,0	7-5	—	–	●	–
left hand													
LT11NLA60	11	0,05	.002	0,8	.031	0,9	.035	0,50-1,50	48-16	—	–	●	–
LT16NLA60	16	0,05	.002	0,8	.031	0,9	.035	0,50-1,50	48-16	—	–	●	–
LT16NLAG60	16	0,05	.002	1,2	.047	1,7	.067	0,50-3,0	48-8	—	–	●	–
LT16NLG60	16	0,15	.006	1,2	.047	1,7	.067	1,75-3,0	14-8	—	–	●	–
LT22NLN60	22	0,31	.012	1,7	.067	2,5	.098	3,5-5,0	7-5	—	–	●	–





Partial Profile 60°
Internal

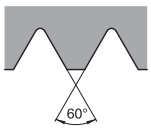


● first choice
○ alternate choice

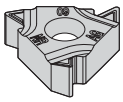
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

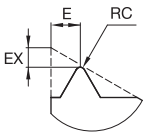
LT-NR-60CB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NRA60CB	11	0,05	.002	0,6	.024	0,8	.031	0,50-1,50	48-16	–	–	●	–
LT16NRAG60CB	16	0,05	.002	0,9	.035	1,5	.059	0,50-3,0	48-8	–	–	●	–
LT16NRG60CB	16	0,16	.006	1,0	.039	1,5	.059	1,75-3,0	14-8	–	–	●	–



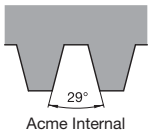
Partial Profile 60°
Internal



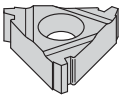


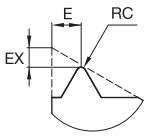
LT-NR-60K

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NRAG60K	16	0,04	.002	1,2	.047	1,7	.067	0,50-3,0	48-8	–	–	–	●



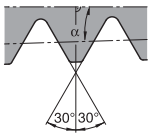
Acme Internal



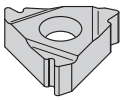


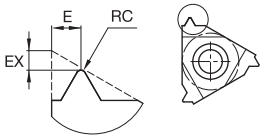
LT-NR/L-ACME

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR10ACME	16	–	–	1,2	.047	1,30	.051	–	10	–	–	●	–
LT16NR12ACME	16	–	–	1,2	.047	1,30	.051	–	12	–	–	●	–
LT16NR8ACME	16	–	–	1,4	.055	1,50	.059	–	8	–	–	●	–
LT22NR5ACME	22	–	–	2,0	.079	2,29	.090	–	5	–	–	●	–
LT22NR6ACME	22	–	–	1,8	.071	2,11	.083	–	6	–	–	●	–



API Rotary Shoulder Connections-Internal
α = 1/2 arctan (TPF/12)



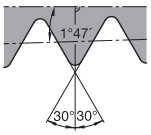


● first choice
○ alternate choice

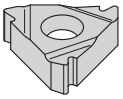
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

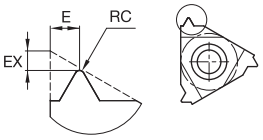
LT-NR/L-API

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT22NR4API382	22	–	–	2,1	.083	2,79	.110	–	4	2.0000	–	●	–
LT22NR4API502	22	–	–	2,1	.083	3,10	.122	–	4	2.0000	–	●	–
LT22NR5API403	22	–	–	1,8	.071	2,60	.102	–	5	3.0000	–	●	–
LT27NR4API502	28	0,65	.0260	2,0	.080	3,79	.110	–	4	–	–	●	–
LT27NR4API382	28	0,99	.0390	2,0	.080	2,79	.110	–	4	–	–	●	–



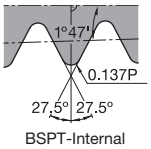
API Round-Internal



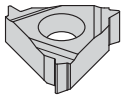


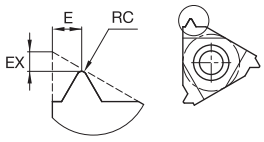
LT-NR/L-APIRD

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR10APIRD	16	–	–	1,2	.047	1,40	.055	–	10	.7500	–	●	–
LT16NR8APIRD	16	–	–	1,3	.051	1,50	.059	–	8	.7500	–	●	–



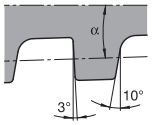
BSPT-Internal



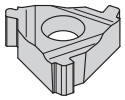


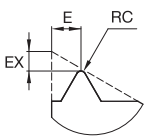
LT-NR/L-BSPT

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR14BSPT	11	–	–	0,9	.035	0,99	.039	–	14	.7500	–	●	–
LT16NR11BSPT	16	–	–	1,1	.043	1,50	.059	–	11	.7500	–	●	–
LT16NR14BSPT	16	–	–	1,0	.039	1,19	.047	–	14	.7500	–	●	–



API Buttress
Casing-Internal
α = 1/2 arctan
(TPF/12)



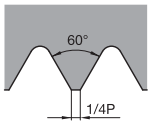


● first choice
○ alternate choice

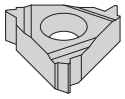
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

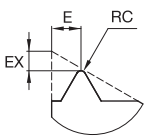
LT-NR/L-BUT

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT22NR5BUT1	22	–	–	2,8	.110	1,91	.075	–	5	1.0000	–	●	–
LT22NR5BUT75	22	–	–	2,8	.110	1,91	.075	–	5	.7500	–	●	–



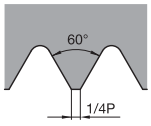
ISO Metric-Internal



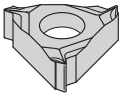


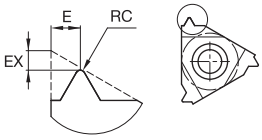
LT-NR/L-ISO

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR05ISO	11	–	–	0,6	.024	0,4	.016	0,50	–	–	–	●	–
LT11NR075ISO	11	–	–	0,6	.024	0,6	.024	0,75	–	–	–	●	–
LT11NR10ISO	11	–	–	0,6	.024	0,7	.027	1,0	–	–	–	●	–
LT11NR125ISO	11	–	–	0,8	.031	0,9	.035	1,25	–	–	–	●	–
LT11NR15ISO	11	–	–	0,8	.031	1,0	.039	1,5	–	–	●	●	–
LT11NR175ISO	11	–	–	0,9	.035	1,1	.043	1,75	–	–	–	●	–
LT11NR20ISO	11	–	–	0,9	.035	1,1	.043	2,0	–	–	–	●	–
LT16NR05ISO	16	–	–	0,6	.024	0,4	.016	0,50	–	–	–	●	–
LT16NR075ISO	16	–	–	0,6	.024	0,6	.024	0,75	–	–	–	●	–
LT16NR10ISO	16	–	–	0,6	.024	0,7	.027	1,0	–	–	●	●	–
LT16NR125ISO	16	–	–	0,8	.031	0,9	.035	1,25	–	–	–	●	–
LT16NR15ISO	16	–	–	0,8	.031	1,0	.039	1,5	–	–	●	●	–
LT16NR175ISO	16	–	–	0,9	.035	1,2	.047	1,75	–	–	–	●	–
LT16NR20ISO	16	–	–	1,0	.039	1,3	.051	2,0	–	–	●	●	–
LT16NR25ISO	16	–	–	1,1	.043	1,5	.059	2,5	–	–	–	●	–
LT16NR30ISO	16	–	–	1,1	.043	1,5	.059	3,0	–	–	●	●	–
LT22NR35ISO	22	–	–	1,6	.063	2,3	.090	3,5	–	–	–	●	–
LT22NR40ISO	22	–	–	1,6	.063	2,3	.090	4,0	–	–	–	●	–
LT22NR45ISO	22	–	–	1,6	.063	2,4	.094	4,5	–	–	–	●	–
LT22NR50ISO	22	–	–	1,6	.063	2,3	.090	5,0	–	–	–	●	–
left hand													
LT11NL15ISO	11	–	–	0,8	.031	1,0	.039	1,5	–	–	–	●	–
LT11NL10ISO	11	–	–	0,6	.024	0,7	.027	1,0	–	–	–	●	–
LT16NL30ISO	16	–	–	1,1	.043	1,5	.059	3,0	–	–	–	●	–
LT16NL10ISO	16	–	–	0,6	.024	0,7	.027	1,0	–	–	–	●	–
LT16NL15ISO	16	–	–	0,8	.031	1,0	.039	1,5	–	–	–	●	–
LT16NL20ISO	16	–	–	1,0	.039	1,3	.051	2,0	–	–	–	●	–
LT16NL25ISO	16	–	–	1,1	.043	1,5	.059	2,5	–	–	–	●	–



ISO Metric-Internal



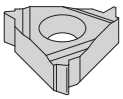


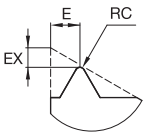
● first choice
○ alternate choice

P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

LT-NR-ISOCB

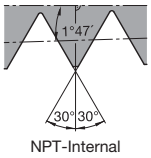
catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR075ISOCB	11	–	–	1,2	.047	0,5	.020	0,75	–	–	–	●	–
LT11NR10ISOCB	11	–	–	0,7	.028	0,8	.031	1,0	–	–	–	●	–
LT11NR125ISOCB	11	–	–	0,7	.028	0,8	.031	1,25	–	–	–	●	–
LT11NR15ISOCB	11	–	–	0,7	.028	0,8	.031	1,5	–	–	–	●	–
LT16NR10ISOCB	16	–	–	0,7	.028	0,8	.031	1,0	–	–	–	●	–
LT16NR15ISOCB	16	–	–	0,7	.028	0,8	.031	1,5	–	–	–	●	–
LT16NR20ISOCB	16	–	–	1,1	.043	1,5	.059	2,0	–	–	–	●	–
LT16NR25ISOCB	16	–	–	1,1	.043	1,5	.059	2,5	–	–	–	●	–



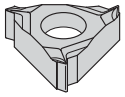


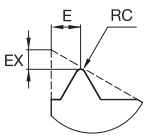
LT-NR/L-NPT

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR14NPT	11	–	–	0,8	.031	1,0	.039	–	14	.7500	●	●	–
LT11NR18NPT	11	–	–	0,8	.031	1,0	.039	–	18	.7500	–	●	–
LT16NR115NPT	16	–	–	1,1	.043	1,5	.059	–	11.5	.7500	●	●	–
LT16NR14NPT	16	–	–	0,9	.035	1,2	.047	–	14	.7500	–	●	–
LT16NR8NPT	16	–	–	1,3	.051	1,8	.071	–	8	.7500	–	●	–



NPT-Internal



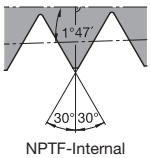


● first choice
○ alternate choice

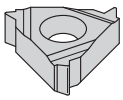
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

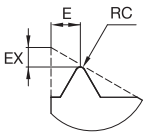
LT-NR-NPTCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR115NPTCB	16	–	–	1,1	.043	1,5	.059	–	11.5	.7500	–	●	–
LT16NR14NPTCB	16	–	–	1,4	.053	1,2	.047	–	14	.7500	–	●	–



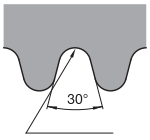
NPTF-Internal



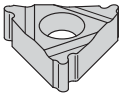


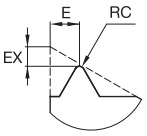
LT-NR/L-NPTF

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR14NPTF	11	–	–	0,8	.031	0,99	.039	–	14	.7500	–	●	–
LT16NR14NPTF	16	–	–	0,9	.035	1,19	.047	–	14	.7500	–	●	–



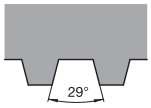
Round-Internal



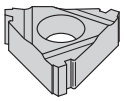


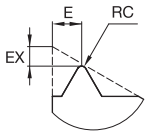
LT-NR/L-RD

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR8RD	16	0,70	.0276	1,4	.055	1,40	.055	–	8	–	–	●	–
LT22NR6RD	22	0,93	.0368	1,5	.059	1,70	.067	–	6	–	–	●	–



Stub Acme-Internal



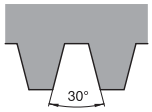


● first choice
○ alternate choice

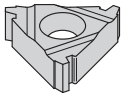
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

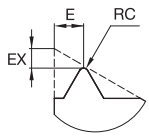
LT-NR/L-STACME

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR10STACME	16	–	–	1,2	.047	1,30	.051	–	10	–	–	●	–
LT16NR12STACME	16	–	–	1,1	.043	1,19	.047	–	12	–	–	●	–
LT16NR14STACME	16	–	–	1,1	.043	1,09	.043	–	14	–	–	●	–
LT16NR16STACME	16	–	–	1,0	.039	0,99	.039	–	16	–	–	●	–
LT16NR6STACME	16	–	–	1,7	.067	1,80	.071	–	6	–	–	●	–
LT16NR8STACME	16	–	–	1,4	.055	1,50	.059	–	8	–	–	●	–



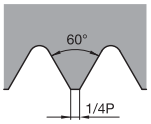
Trapez-Internal



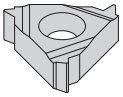


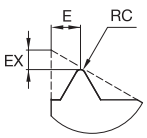
LT-NR/L-TR

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR2TR	16	–	–	1,1	.043	1,30	.051	2,0	–	–	–	●	–
LT16NR3TR	16	–	–	1,3	.051	1,50	.059	3,0	–	–	–	●	–
LT22NR4TR	22	–	–	1,7	.067	1,91	.075	4,0	–	–	–	●	–
LT22NR5TR	22	–	–	2,1	.083	2,50	.098	5,0	–	–	–	●	–



American
UN-Internal



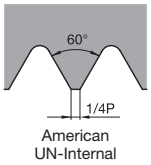


● first choice
○ alternate choice

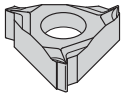
P	●	●	●
M	●	●	●
K	●	●	●
N	○	○	○
S	●	●	●
H	○		

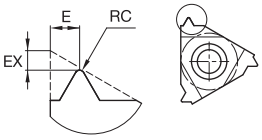
LT-NR/L-UN

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR16UN	11	–	–	0,9	.035	1,1	.043	–	16	–	●	●	–
LT11NR18UN	11	–	–	0,8	.031	1,0	.039	–	18	–	–	●	–
LT11NR20UN	11	–	–	0,8	.031	0,9	.035	–	20	–	–	●	–
LT11NR24UN	11	–	–	0,7	.027	0,8	.031	–	24	–	–	●	–
LT11NR28UN	11	–	–	0,6	.024	0,7	.027	–	28	–	–	●	–
LT11NR32UN	11	–	–	0,6	.024	0,6	.024	–	32	–	–	●	–
LT11NR40UN	11	–	–	0,6	.024	0,6	.024	–	40	–	–	●	–
LT16NR10UN	16	–	–	1,1	.043	1,5	.059	–	10	–	–	●	–
LT16NR12UN	16	–	–	1,1	.043	1,4	.055	–	12	–	●	●	–
LT16NR14UN	16	–	–	0,9	.035	1,2	.047	–	14	–	–	●	–
LT16NR16UN	16	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–
LT16NR18UN	16	–	–	0,8	.031	1,0	.039	–	18	–	–	●	–
LT16NR20UN	16	–	–	0,8	.031	0,9	.035	–	20	–	–	●	–
LT16NR24UN	16	–	–	0,7	.027	0,8	.031	–	24	–	–	●	–
LT16NR28UN	16	–	–	0,6	.024	0,7	.027	–	28	–	–	●	–
LT16NR32UN	16	–	–	0,6	.024	0,6	.024	–	32	–	–	●	–
LT16NR8UN	16	–	–	1,1	.043	1,5	.059	–	8	–	–	●	–
left hand													
LT11NL32UN	11	–	–	0,6	.024	0,6	.024	–	32	–	–	●	–
LT16NL10UN	16	–	–	1,1	.043	1,5	.059	–	10	–	–	●	–
LT16NL12UN	16	–	–	1,1	.043	1,4	.055	–	12	–	–	●	–
LT16NL16UN	16	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–



American
UN-Internal



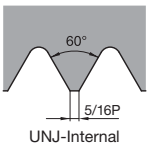


● first choice
○ alternate choice

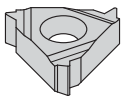
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

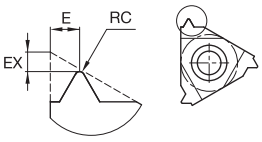
LT-NR-UNCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR16UNCB	11	–	–	0,7	.028	0,8	.031	–	16	–	–	●	–
LT11NR18UNCB	11	–	–	0,6	.024	0,8	.031	–	18	–	–	●	–
LT11NR20UNCB	11	–	–	0,6	.024	0,8	.031	–	20	–	–	●	–
LT11NR24UNCB	11	–	–	0,7	.028	0,8	.031	–	24	–	–	●	–
LT11NR32UNCB	11	–	–	1,2	.047	0,5	.020	–	32	–	–	●	–
LT16NR10UNCB	16	–	–	1,1	.043	1,5	.059	–	10	–	–	●	–
LT16NR12UNCB	16	–	–	1,1	.043	1,5	.059	–	12	–	–	●	–
LT16NR14UNCB	16	–	–	1,1	.043	1,5	.059	–	14	–	–	●	–
LT16NR16UNCB	16	–	–	0,7	.028	0,8	.031	–	16	–	–	●	–
LT16NR18UNCB	16	–	–	0,6	.024	0,8	.031	–	18	–	–	●	–
LT16NR20UNCB	16	–	–	0,7	.028	0,6	.024	–	20	–	–	●	–
LT16NR8UNCB	16	–	–	1,1	.043	1,5	.059	–	8	–	–	●	–



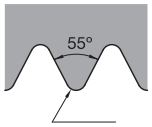
UNJ-Internal



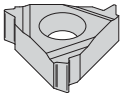


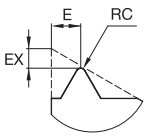
LT-NR/L-UNJ

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR14UNJ	11	–	–	1,0	.039	1,2	.047	–	14	–	–	●	–
LT11NR16UNJ	11	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–
LT11NR18UNJ	11	–	–	0,8	.031	1,0	.039	–	18	–	–	●	–
LT16NR12UNJ	16	–	–	1,1	.043	1,3	.051	–	12	–	–	●	–
LT16NR16UNJ	16	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–



Whitworth BSW,
BSF, BSP-Internal



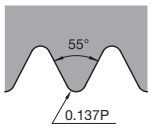


● first choice
○ alternate choice

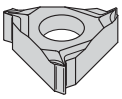
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

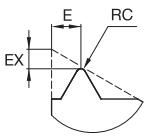
LT-NR/L-W

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT11NR14W	11	–	–	0,9	.035	1,09	.043	–	14	–	–	●	–
LT11NR19W	11	–	–	0,8	.031	0,99	.039	–	19	–	–	●	–
LT16NR10W	16	–	–	1,1	.043	1,50	.059	–	10	–	–	●	–
LT16NR11W	16	–	–	1,1	.043	1,50	.059	–	11	–	●	●	–
LT16NR12W	16	–	–	1,1	.043	1,40	.055	–	12	–	–	●	–
LT16NR14W	16	–	–	1,0	.039	1,19	.047	–	14	–	–	●	–
LT16NR16W	16	–	–	0,9	.035	1,09	.043	–	16	–	–	●	–
LT16NR19W	16	–	–	0,8	.031	0,99	.039	–	19	–	–	●	–
LT16NR20W	16	–	–	0,8	.031	0,89	.035	–	20	–	–	●	–
LT16NR8W	16	–	–	1,2	.047	1,50	.059	–	8	–	–	●	–
LT22NR7W	22	–	–	1,6	.063	2,29	.090	–	7	–	–	●	–
left hand													
LT16NL11W	16	–	–	1,1	.043	1,50	.059	–	11	–	–	●	–



Whitworth BSW,
BSF, BSP-Internal





LT-NR-WCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16NR11WCB	16	–	–	1,3	.051	1,50	.059	–	11	–	–	●	–
LT16NR14WCB	16	–	–	1,3	.051	1,50	.059	–	14	–	–	●	–

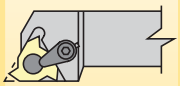
How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding image to easily identify which attributes apply.

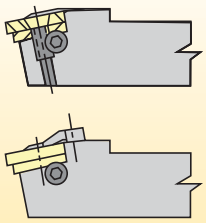
Inch

L	S	AS	R		16	3	
Insert Style	Insert Holding Method	Tool Style	Hand of Tool	Drop Head	Shank Size	Insert Size	Qualified Surface and Length

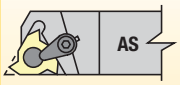
L — Laydown triangle



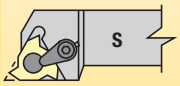
S — Insert screw or clamp only



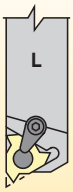
Straight shank



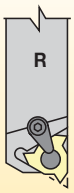
Offset shank

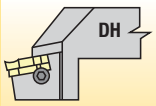


Left hand



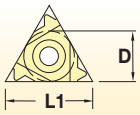
Right hand





Inch:
This shows a two-digit number that indicates the holder cross section. For shanks 5/8" square and over, the number will represent the number of sixteenths of width and height. For shanks under 5/8" square, the number of sixteenths of cross section will be preceded by a zero. For rectangular holders, the first digit represents the number of eighths of width, and the second digit the number of quarters of height, except for a toolholder 1-1/4" x 1-1/2", which is given the number 91.

Size equals number of 1/8" increments of IC.



inch insert size	metric insert size	D inch	L1 inch
2	11	1/4	0.433
3	16	3/8	0.650
4	22	1/2	0.866

C — qualified back and end, 5" long

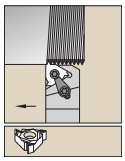
D — qualified back and end, 6" long

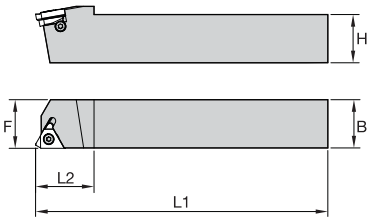
E — qualified back and end, 7" long

T — qualified back and end, 3.25" long

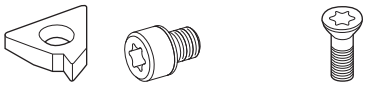
Q — qualified metric holder

NOTE: Toolholders with primary shank sizes larger than 1/2" or 12mm are supplied with clamp and insert screw. Secure the insert with either the camp or insert screw. **Do not use both.**
For Threading Shim Catalog Numbering System, please see page D73.

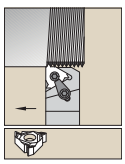


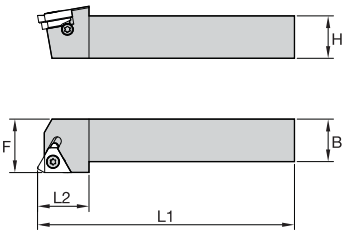


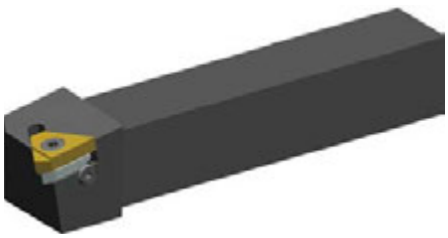
LSA



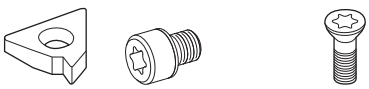
order number	catalog number	H	B	F	L1	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand											
1106230	**LSASR83**	.500	.500	.500	3.250	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281801	**LSASR103**	.625	.625	.630	5.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281802	**LSASR123**	.750	.750	.750	5.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281803	**LSASR163**	1.000	1.000	1.000	6.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281804	**LSASR164**	1.000	1.000	1.000	6.000	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1281805	**LSASR203**	1.250	1.250	1.250	7.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
left hand											
1281800	**LSASL83**	.500	.500	.500	3.250	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281796	**LSASL103**	.625	.625	.630	5.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281797	**LSASL123**	.750	.750	.750	5.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281798	**LSASL163**	1.000	1.000	1.000	6.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281799	**LSASL164**	1.000	1.000	1.000	6.000	LT22EL	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20



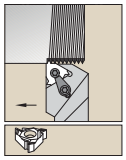


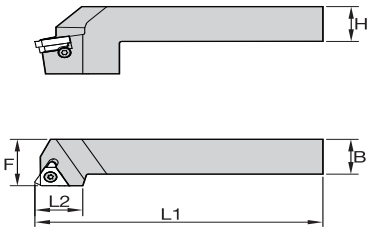


LSS



order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand												
1281817	**LSSR123D**	.750	.750	1.000	6.000	1.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281818	**LSSR163D**	1.000	1.000	1.250	6.000	1.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281819	**LSSR164D**	1.000	1.000	1.250	6.000	1.200	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1281820	**LSSR203D**	1.250	1.250	1.500	6.000	1.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1192326	**LSSR204D**	1.250	1.250	1.500	6.000	1.200	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
left hand												
1281812	**LSSL123D**	.750	.750	1.000	6.000	1.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281813	**LSSL163D**	1.000	1.000	1.250	6.000	1.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281814	**LSSL164D**	1.000	1.000	1.250	6.000	1.200	LT22EL	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20





LSS-DH

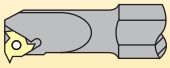
order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand												
1281815	**LSSRDH123C**	.750	.750	1.000	5.000	1.500	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281816	**LSSRDH164D**	1.000	1.000	1.250	6.000	1.500	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20

How Do Catalog Numbers Work?

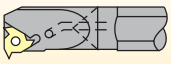
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding image to easily identify which attributes apply.

S	08	12	L	S	E	R	2
Bar Type	Primary Necked Shank Bar Diameter	Secondary (Mounting) Bar Diameter	Insert Style	Insert Holding Method	Bar Style	Hand of Tool	Insert Size

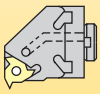
S — Steel shank without coolant



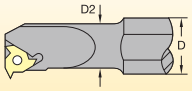
E — Carbide with coolant



H — Interchangeable head with coolant

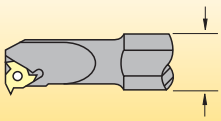


Indicates the primary bar diameter in 1/16" increments.

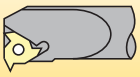


NOTE: Boring bars with primary bar diameters larger than 5/8" are supplied with clamp and insert screw. Secure the insert with either the clamp or insert screw. **Do not use both.**

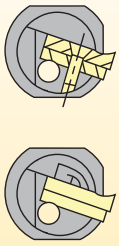
Indicates the secondary bar diameter in 1/16" increments.



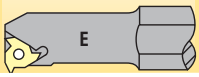
L — Laydown triangle



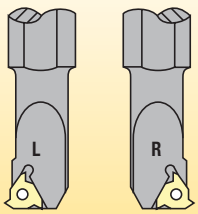
S — Insert screw



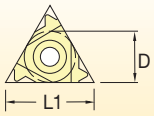
End cutting edge mount



Left Hand | Right Hand



Size equals number of 1/8" increments of IC.

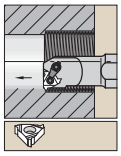


inch insert size	metric insert size	D inch	L1 inch
2	11	1/4	0.433
3	16	3/8	0.650
4	22	1/2	0.866

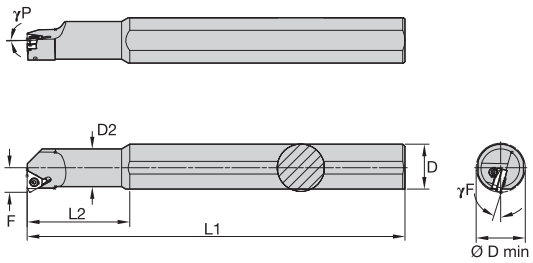
LT Threading Shim Catalog Numbering System

SM	Y	E	3	2P
Shim	Shim for LT Standard Inserts	Insert Threading	Insert Size	Shim Angle
		E = External **I** = Internal	D value in 1/8"	**2P** = 2° positive **1P** = 1° positive **—** = 0° neutral **1N** = 1° negative **2N** = 2° negative **3N** = 3° negative

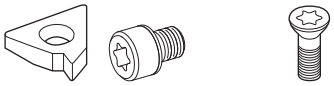
For shims and shim kits, see pages D104–D105.



Steel shank without through coolant.

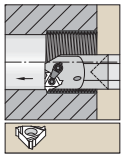


S-LSE

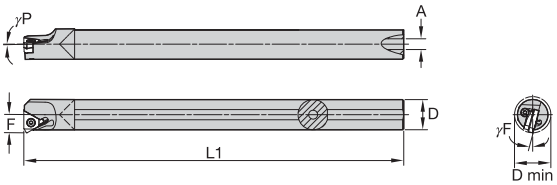


order number	catalog number	D	D min	D2	F	L1	L2	γF°	γP°	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand															
1288896	**S0612LSER2**	.750	.500	.375	.280	7.000	1.000	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
1288908	**S0812LSER2**	.750	.650	.500	.350	7.000	1.250	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
1288921	**S1012LSER3**	.750	.800	.625	.460	7.000	1.500	-15.0	-1.5	LT16NR	**–**	**–**	–	**SN3TPKG**	T10
1288937	**S1212LSER3**	.750	.900	–	.510	7.000	–	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1288961	**S1620LSER3**	1.250	1.200	1.000	.650	10.000	2.500	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1288962	**S1620LSER4**	1.250	1.250	1.000	.710	10.000	2.500	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1192442	**S2020LSER3**	1.250	1.450	–	.770	10.000	–	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1288982	**S2020LSER4**	1.250	1.500	–	.850	10.000	–	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
left hand															
1288895	**S0612LSEL2**	.750	.500	.375	.280	7.000	1.000	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8
1288907	**S0812LSEL2**	.750	.650	.500	.350	7.000	1.250	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8
1288920	**S1012LSEL3**	.750	.800	.625	.460	7.000	1.500	-15.0	-1.5	LT16NL	**–**	**–**	–	**SN3TPKG**	T10
1288936	**S1212LSEL3**	.750	.900	–	.510	7.000	–	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1288958	**S1620LSEL3**	1.250	1.200	1.000	.650	10.000	2.500	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1288960	**S1620LSEL4**	1.250	1.250	1.000	.710	10.000	2.500	-15.0	-1.5	LT22NL	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20

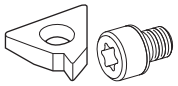
NOTE: Items listed without a shim are designed for a 1.5° inclination angle.



Carbide shank with through coolant.

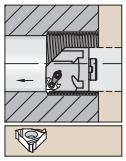


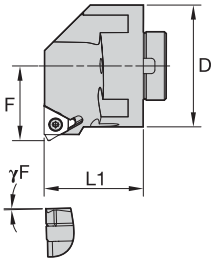
E-LSE

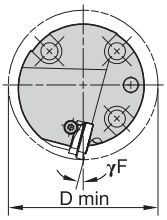


order number	catalog number	D	D min	F	L1	A	γF°	γP°	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand														
1152676	**E06LSER2**	.375	.500	.280	6.000	.125	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
1152678	**E08LSER2**	.500	.650	.350	8.000	.187	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
1152680	**E10LSER3**	.625	.800	.460	10.000	.218	-15.0	-1.5	LT16NR	**–**	**–**	–	**SN3TPKG**	T10
1152682	**E12LSER3**	.750	.900	.510	10.000	.281	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1152684	**E16LSER3**	1.000	1.200	.650	12.000	.312	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1152686	**E16LSER4**	1.000	1.250	.710	12.000	.312	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
left hand														
1152677	**E06LSEL2**	.375	.500	.280	6.000	.125	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8
1152679	**E08LSEL2**	.500	.650	.350	8.000	.187	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8
1152681	**E10LSEL3**	.625	.800	.460	10.000	.218	-15.0	-1.5	LT16NL	**–**	**–**	–	**SN3TPKG**	T10
1152683	**E12LSEL3**	.750	.900	.510	10.000	.281	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10

NOTE: Items listed without a shim are designed for a 1.5° inclination angle.



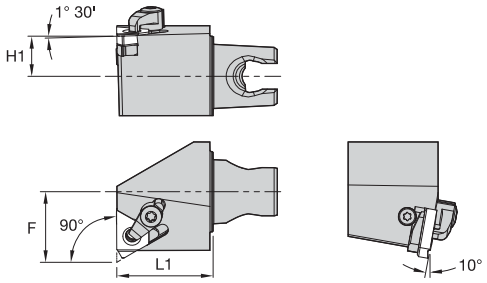


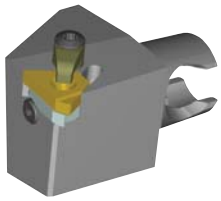


H-LSE

order number	catalog number	D	D min	L1	F	γF°	γP°	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand													
1095216	**H16LSER3**	1.000	1.200	1.63	.645	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095218	**H20LSER3**	1.250	1.450	1.63	.760	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095220	**H24LSER3**	1.500	1.760	1.63	.885	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095224	**H24LSER4**	1.500	1.782	1.63	.973	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1095222	**H32LSER3**	2.000	2.400	1.63	1.276	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095226	**H32LSER4**	2.000	2.400	1.63	1.276	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
3842895	**H32LSER5**	2.000	2.400	1.63	1.281	-15.0	-1.5	LT27NR	**SMYI5**	**SSY5T**	T25	**SSA5T**	T25
3842897	**H40LSER5**	2.500	3.030	1.63	1.531	-15.0	-1.5	LT27NR	**SMYI5**	**SSY5T**	T25	**SSA5T**	T25

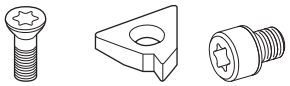
NOTE: For boring adapters, see pages B406–B409.



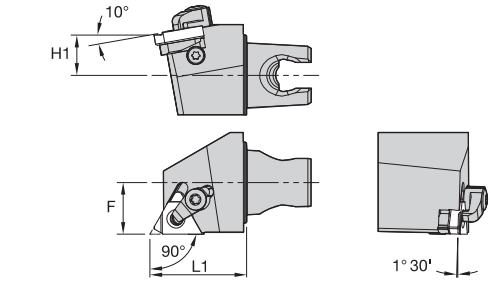


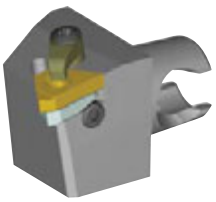
Clamp shown in images is no longer available.

LSE • End Mount



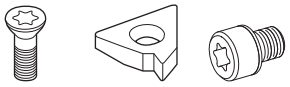
order number	catalog number	L1 mm	L1 in	F mm	F in	H1 mm	H1 in	gage insert	insert screw	shim	shim screw
right hand											
2399506	**KM25LSER1630**	30	1.181	22	.866	12,5	.492	LT16EL	**SSA3T**	**SMYI3**	**SSY3T**
left hand											
2399507	**KM25LSEL1630**	30	1.181	22	.866	12,5	.492	LT16ER	**SSA3T**	**SMYE3**	**SSY3T**



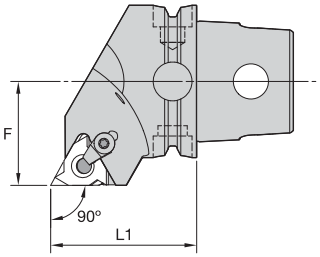


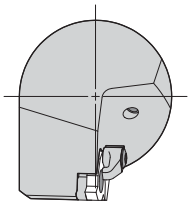
Clamp shown in images is no longer available.

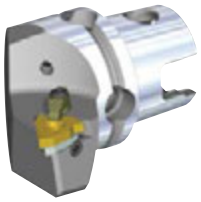
LSS • Side Mount



order number	catalog number	L1 mm	L1 in	F mm	F in	H1 mm	H1 in	gage insert	insert screw	shim	shim screw
right hand											
2399504	**KM25LSSR1630**	30	1.181	16	.630	12,5	.492	LT16ER	**SSA3T**	**SMYE3**	**SSY3T**
3176219	**KM25LSSR2230**	30	1.181	16	.630	12,5	.492	LT22ER	**SSA4T**	**SMYE4**	**SSY4T**
left hand											
2399505	**KM25LSSL1630**	30	1.181	16	.630	12,5	.492	LT16EL	**SSA3T**	**SMYI3**	**SSY3T**
3176220	**KM25LSSL2230**	30	1.181	16	.630	12,5	.492	LT22EL	**SSA4T**	**SMYI4**	**SSY4T**



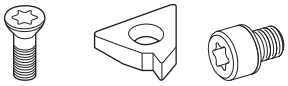




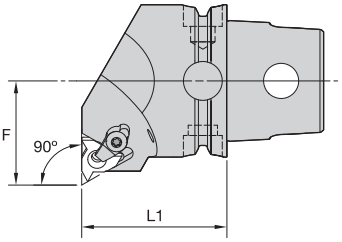
Clamp shown in images is no longer available.

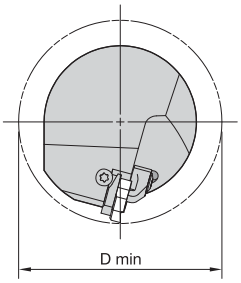
KM QUICK CHANGE

LSS 90°



order number	catalog number	L1 mm	L1 in	F mm	F in	gage insert	insert screw	shim	shim screw	kg	lbs
right hand											
3950857	**KM40TSLSSR16**	40	1.575	27	1.063	LT16ER	**SSA3T**	**SMYE3**	**SSY3T**	0,31	.68
3950858	**KM40TSLSSR22**	40	1.575	27	1.063	LT22ER	**SSA4T**	**SMYE4**	**SSY4T**	0,30	.66
3959401	**KM40TSLSSR27**	45	1.772	27	1.063	LT27ER	**SSA5T**	**SMYE5**	**SSY5T**	0,37	.82
left hand											
3950855	**KM40TSLSSL16**	40	1.575	27	1.063	LT16EL	**SSA3T**	**SMYI3**	**SSY3T**	0,32	.70
3950856	**KM40TSLSSL22**	40	1.575	27	1.063	LT22EL	**SSA4T**	**SMYI4**	**SSY4T**	0,31	.68
3959400	**KM40TSLSSL27**	45	1.772	27	1.063	LT27EL	**SSA5T**	**SMYI5**	**SSY5T**	0,37	.82

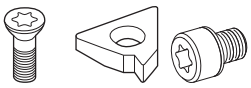




KM QUICK CHANGE

Clamp shown in images is no longer available.

LSE-N 90° • Internal Only



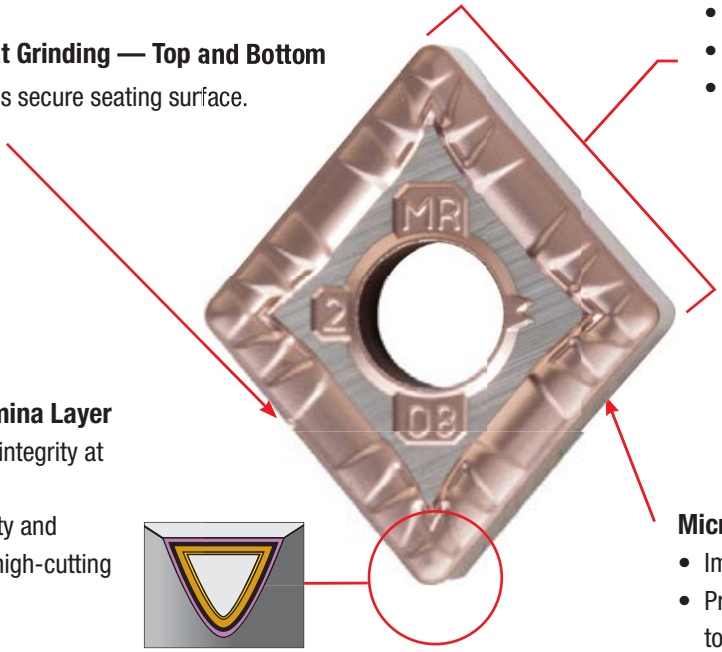
order number	catalog number	L1 mm	L1 in	F mm	F in	D min mm	D min in	gage insert	insert screw	shim	shim screw	kg	lbs
right hand													
3950832	**KM40TSLSER16N**	40	1.575	27	1.063	54	2.126	LT16NR	**SSA3T**	**SMYI3**	**SSY3T**	0,35	.77
3950854	**KM40TSLSER22N**	40	1.575	27	1.063	54	2.126	LT22NR	**SSA4T**	**SMYI4**	**SSY4T**	0,35	.77
3959399	**KM40TSLSER27N**	45	1.772	27	1.063	54	2.126	LT27NR	**SSA5T**	**SMYI5**	**SSY5T**	0,39	.86
left hand													
3950831	**KM40TSLSEL16N**	40	1.575	27	1.063	54	2.126	LT16NL	**SSA3T**	**SMYE3**	**SSY3T**	0,35	.77

Beyond™ Drive™ Inserts

- Designed for increased productivity.
- Post-coat treatment reduces stress, improves coating adhesion.
- Excellent toughness and wear resistance.
- Better insert wear detection.

Post-Coat Treatment
- Improves edge toughness.
- Long predictable tool life.
- Reduces depth-of-cut notching.
- Wide range of applications.

Post-Coat Grinding — Top and Bottom
- Provides secure seating surface.



Fine-Grained Alumina Layer
- Provides coating integrity at elevated speeds.
- Higher productivity and dependability at high-cutting temperatures.

TiN/MT-TiCN/TiCN/Al_2O_3/TiOCN

Micro-Polished Edges
- Improves edge toughness.
- Provides smooth outer surface to reduce forces, friction, and workpiece sticking.

Experience the advantages at your Authorized Kennametal Distributor or at **kennametal.com**.

KENNAMETAL®

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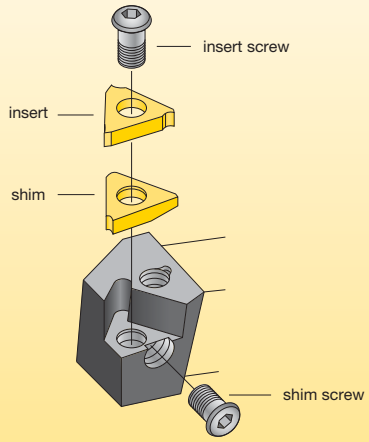
Laydown Threading Toolholders

In all cases, the proper shim selection is important.

Kennametal toolholders are supplied with a shim for a 1.5° lead angle. Change the shim if your thread is more than 1° different.
For more details on proper shim selections, see pages D104–D105.



insert size and screw	insert screw	shim	shim screw and washer
3ER	SS-A3T	SM-YIE3	SS-Y3T
3EL	SS-A3T	SM-YI3	SS-Y3T
4ER	SS-A4T	SM-YIE4	SS-Y4T
4EL	SS-A4T	SM-YI4	SS-Y4T
Laydown Threading boring bars			
2IR	SS-N2T	–	–
2IL	SS-N2T	–	–
3IR	SS-A3T	SM-YI3	SS-Y3T
3IL	SS-A3T	SM-YIE3	SS-Y3T
4IR	SS-A4T	SM-YI4	SS-Y4T
4IL	SS-A4T	SM-YIE4	SS-Y4T

SM	—	Y	E	3	—	2N
Shim		Y-shim for Laydown standard inserts	E – External I – Internal	IC – 1/8"		Shim Angle

2P	2° positive
1P	1° positive
–	0°
1N	1° negative
2N	2° negative
3N	3° negative

resultant angle		3.5°	2.5°	1.5°	0.5°	-0.5°	-1.5°
insert size (IC)	toolholder	shim ordering code					
3/8"	ex. RH/in. LH ex. LH/in. RH	SM-YE3-2P SM-YI3-2P	SM-YE3-1P SM-YI3-1P	SM-YE3 SM-YI3	SM-YE3-1N SM-YI3-1N	SM-YE3-2N SM-YI3-2N	SM-YE3-3N SM-YI3-3N
1/2"	ex. RH/in. LH ex. LH/in. RH	SM-YE4-2P SM-YI4-2P	SM-YE4-1P SM-YI4-1P	SM-YE4 SM-YI4	SM-YE4-1N SM-YI4-1N	SM-YE4-2N SM-YI4-2N	SM-YE4-3N SM-YI4-3N

Slanted Shim Kit

Because you might occasionally need different shims than those supplied with our standard toolholders, we strongly recommend that shim kits be readily available in every tool shop.

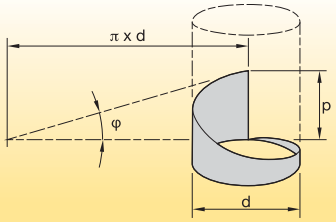
insert size	shim size (D)	ordering code	contains slanted shims
3x	3/8"	ABY3SET	SM-YE3-2P, 1P, 1N, 2N, 3N SM-YI3-2P, 1P, 1N, 2N, 3N
4x	1/2"	ABY4	SM-YE4-2P, 1P, 1N, 2N, 3N SM-YI4-2P, 1P, 1N, 2N, 3N

The Helix Angle

Example:
d = 1.892" (48,06mm)
p = .125" (3,175mm)

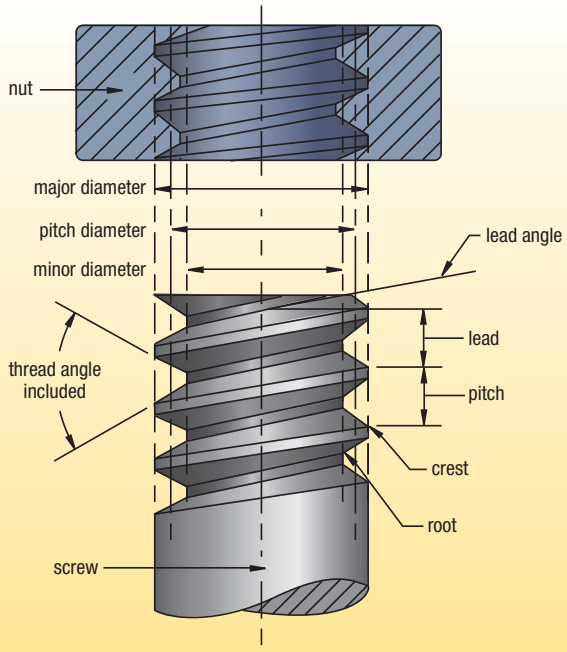
ϕ = Helix angle
p = pitch
d = pitch diameter

$$\phi = \arctan\left(\frac{p * starts}{\pi * \varnothing}\right) = 1.13°$$



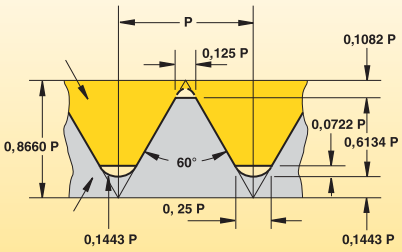
Screw Thread Definitions

1. **Major diameter** — The largest diameter of a straight screw thread. This applies to both internal and external threads.
2. **Pitch diameter** — On a straight thread, it is the diameter which passes through the thread profiles at such points which make the thread width of the groove equal to one-half of the basic pitch. On a "perfect thread," this occurs at the point where the widths of the thread and groove are equal.
3. **Thread angle (included)** — The included angle between the individual flanks of the thread form.
4. **Minor diameter** — The smallest diameter of a straight screw thread. This applies to both internal and external threads.
5. **Lead angle** — On a straight thread, the lead angle is the angle created by the helix of the thread at the pitch diameter with a plane perpendicular to the axis.
6. **Lead** — The distance a screw thread advances axially in one revolution. On a single start, the pitch and lead are identical. The lead is equal to the pitch times the number of starts.
7. **Pitch** — The distance from a point on a screw thread to a corresponding point on the next thread measured parallel to the thread axis.
8. **Crest** — The outer most surface of the thread form which joins the flanks.
9. **Root** — The inner most surface of the thread form which joins the flanks.



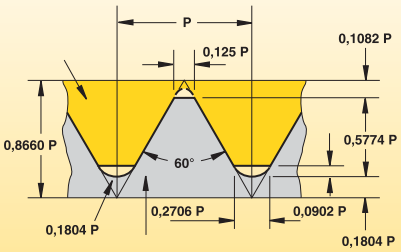
NOTE: Threads per inch (TPI) not shown:
The number of threads per inch measured axially.
The terms pitch and TPI are often used interchangeably. TPI = 1/pitch

ISO M (Metric) and UN (Unified National)



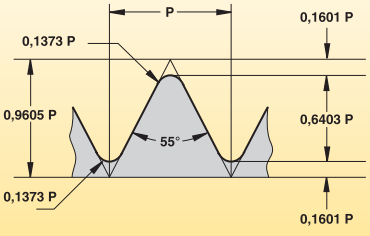
Use: All branches of mechanical industry.

UNJ (controlled root radius)



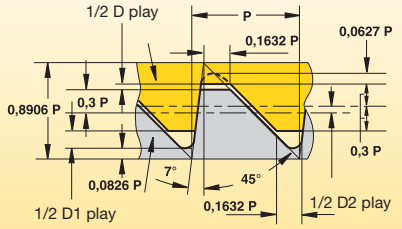
Use: Aircraft and space industry.

Whitworth (BSW)



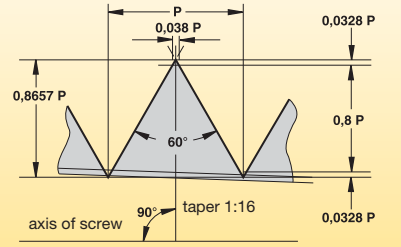
Use: Fittings and pipe couplings for gas, water, and sewer lines (replaced by ISO).

American Buttress



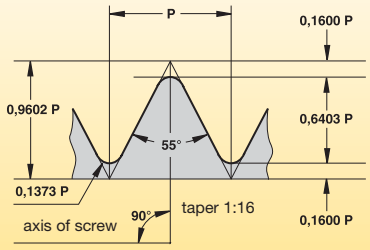
Use: Fittings and pipe couplings.

NPT (American National Pipe Thread)



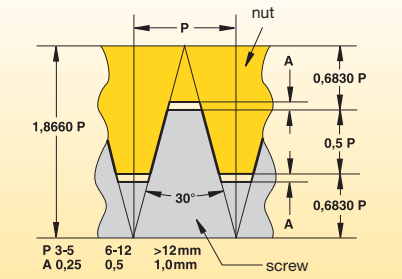
Use: Fittings and pipe couplings.

BSPT (British Standard Pipe Thread)



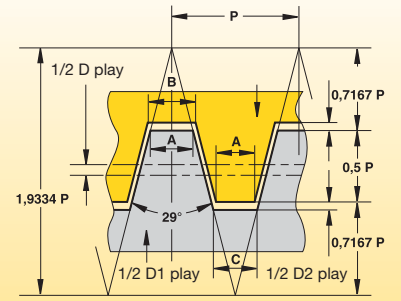
Use: Pipe thread for steam, gas, and water lines.

TR DIN 103



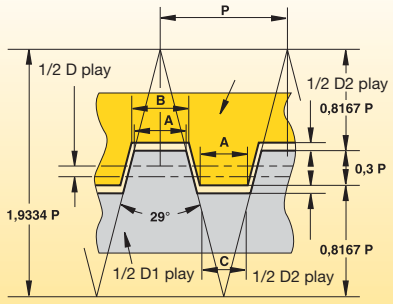
Use: Mechanical industry for motion transmission screws.

Acme



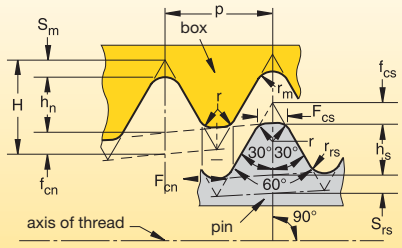
A = 0,0307 P
B = 0,3707 P—x D play
C = 0,3707 P—(D1 play—D2 play)
Use: Acme-General is used in mechanical industry for motion transmission screws.

Acme, truncated (Stub)



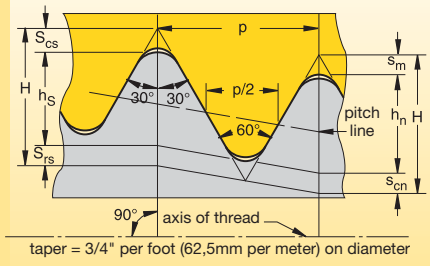
A = 0,4224 P
B = 0,4224 P—x D play
C = 0,4224 P—(D1 play—D2 play)
Use: Where normal Acme is too deep.

API Rotary Shoulder Connection



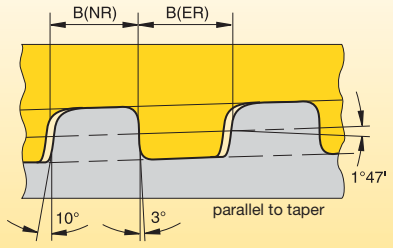
NOTE: Taper shown exaggerated.

API Casing and Tubing Round Thread Form



NOTE: Taper shown exaggerated.

API Buttress



Suggested Grades and Speeds for Threading Various Workpiece Materials

workpiece group	workpiece material	recommended surface speed — SFM				
		uncoated	PVD coated			
		K68	KC5010	KC5025	KC5410	KU25T
free-machining carbon steel	10L18, 10L45, 1213, 12L13, 12L14, 1140, 1141, 11L44, 1151, 10L50	—	300–650	150–650	—	300–450
plain carbon steel	10063, 1008, 1010, 1015, 1018, 1020, 1025, 1026, 1108, 1117	—	250–650	150–575	—	250–400
alloy steels/tool steels 150–325 HB (up to 35 HRC)	1042, 1045, 1070, 1080, 1085, 1090, 1095, 1541, 1561, 1572, 5140, 8620, W1, O1, S1, P20, H13, D2, A6, H13, L6	—	250–650	125–550	—	250–400
alloy steels/tool steels 330–450 HB (36–47 HRC)		—	200–525	—	—	200–350
martensitic/ferritic stainless/precipitation hardening	416, 420F, 440F, 405, 409, 429, 430, 434, 436, 442, PH	—	150–525	100–400	—	80–200
austenitic stainless steel	201, 202, 301, 302, 303, 304, 304, 305, 321, 347, 348, 310, 314, 316, 316L, 330	200–350	200–650	150–450	—	80–350
gray cast iron 135–270 HB	class 20, 30, 35, 45	200–300	200–775	150–400	—	100–355
gray cast iron 275–450 HB	class 50, 55, 60	150–250	150–575	50–250	—	100–355
alloy/ductile iron	A536, J434C, 60-40-18, 80-55-06, 100-70-03	150–250	150–650	100–525	—	100–355
free-machining aluminum alloys	2024-T4, 2014-T6, 6061-T6 2011-T3, 3003-H18, A2, Alcan, Alcoa 510, Duralumin	400–800	400–1200	—	500–1500	100–1000
high-silicon aluminum alloys	A380, A390, A380-1, A390-1, A380-2	—	—	—	—	—
copper/zinc/brass		250–600	250–1000	150–775	—	100–800
non-metallics	Graphite, Nylon, Plastics, Rubbers, Phenolics, Carbon	400–1500	400–1300	150–1000	—	100–1000
high-temperature alloys 125–269 HB (up to 27 HRC)	Nickel 200, Monel, R405, Monel K500, INCONEL 600, INCONEL® 625/901x750/718, Waspaloy, Hastelloy C	80–120	80–400	40–250	—	45–270
high-temperature alloys 260–450 HB (26–47 HRC)	Rene 95, Waspaloy A286, Incoloy 800, Haynes 188, Stellite F, Haynes 25	80–100	100–250	20–200	—	45–200
titanium alloys	Ti-6Al-4V, TI-5Al-2.5Sn	110–180	110–325	—	—	45–250

NOTE: When workpiece hardness levels are at the top of a range, starting SFM should be at the lower end. Regularly inspect insert clamps for worn flats.

Edge preparation:
Uncoated — sharp
PVD coated — light hone except positive top rake, top rake-sharp

problem	cause	possible solution
thread with torn finish	• Burs. • Torn finish. • Steps. • Improper shim. • Improper infeed.	• Use modified flank infeed. • Use full profile insert. • Increase coolant concentration. • Increases SFM. • Check machine “Z” travel axis. • Check insert form. • Check for correct shim in LT system. • Calculate flank clearance.
chatter	• Poor rigidity. • Insert movement. • Improper infeed. • Off centerline.	• Use modified flank infeed. • Minimize tool overhang. • Check for workpiece deflection. • Check insert and clamp. • Verify that tool cutting position is at workpiece centerline. • Adjust number of passes. Fewer passes reduce chatter.
built-up edge	• Speed too low. • Insufficient coolant. • Chip load.	• Increase SFM. • Increase coolant concentration and/or flow. • Adjust infeed angle. • Increase depth of cut per pass.
deformation	• Wrong grade. • Speed too high. • Improper infeed angle. • Insufficient coolant.	• Use modified flank infeed. • Use a more wear-resistant grade (e.g., KC5010™). • Reduce SFM. • Increase coolant flow.
chipping	• Improper infeed. • Chip load. • Wrong grade. • Incorrect speed. • Poor rigidity.	• Use modified flank infeed. • Increase or decrease number of passes. • Eliminate spring passes. • Use tougher grade (e.g., KC5025™). • Increase SFM if chipping on trailing edge. • Decrease SFM if chipping on leading edge. • Minimize tool overhang. • Check for insert movement/check clamp. Torque screw or clamp to correct value. • Check for possible part deflection. • Calculate flank clearance. • Ensure correct shim.
broken nose	• Heavy chip load. • Small nose radius. • Wrong grade. • Improper infeed.	• Use modified flank infeed. • Decrease chip load. • Use large nose radius if possible. • Use tougher grade (e.g., KC5025).
flank wear	• Improper shim. • Wrong grade. • Insufficient coolant. • Off centerline. • Insufficient flank clearance. • Improper infeed angle.	• Ensure correct shim. • Use a more wear-resistant grade (e.g., KC5025). • Increase coolant flow. • Check the centerline height of the tool. (The smaller the diameter, the more critical the need for centerline accuracy.) • Calculate flank clearance and change shim to increase clearance on worn flank. • If wear is on trailing flank, increase infeed angle clearance.

(continued)

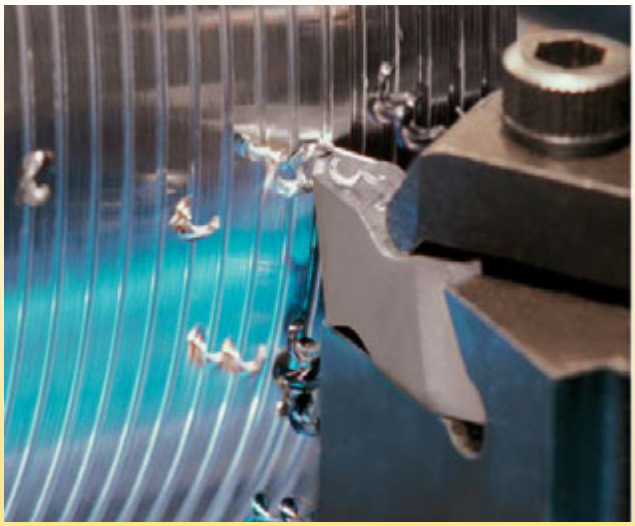
(Technical Information • Failure and Solution Guide — continued)

problem	possible solution																	
	increase SFM	reduce SFM	increase chip load	decrease chip load where failure occurs	use tougher carbide grade	use harder carbide grade	apply coolant	use coated carbide	use topping insert	change infeed angle	check for insert movement and reseat	reduce tool overhang	reselect shim	apply chipbreaker style	reduce DOC	adjust center height	begin cutting threads .472" before workpiece	change infeed method
chatter	•			•							•	•				•		•
bur on crest	•								•									•
short tool life		•	•	•		•		•										•
chipped leading edge			•	•	•													
chipped trailing edge					•					•								
broken nose (first pass)	•														•	•		
broken nose (after first pass)				•	•					•			•					•
built-up on cutting edge	•		•				•	•										•
premature topping													•					
splitting threads																	•	
poor chip evacuation														•				•

Kennametal insert technology brings chip control to your threading operations with the Top Notch™ platform. The proprietary Kennametal recessed chip groove, when used according to our recommendations, controls the chip in most applications. Our positive rake design lowers cutting pressures, which in turn lowers damaging heat generation thus providing better tool life. Long, stringy chips no longer mar the workpiece surface finish. The danger to operators when removing long chips from the workpiece and chuck is eliminated. All of these benefits combine to improve the productivity of your threading operations.

The Last Pass

Some CNC controls require the last pass to be at a 0° infeed angle because the chip will not break on the last pass. On most carbon and alloy steels, the last pass can remain at .005" (0,127mm) depth of cut and produce an acceptable finish. For some materials, a .001" (0,025mm) to .003" (0,076mm) (spring) pass may be used to improve surface finish, however, chipbreaking action may be compromised.

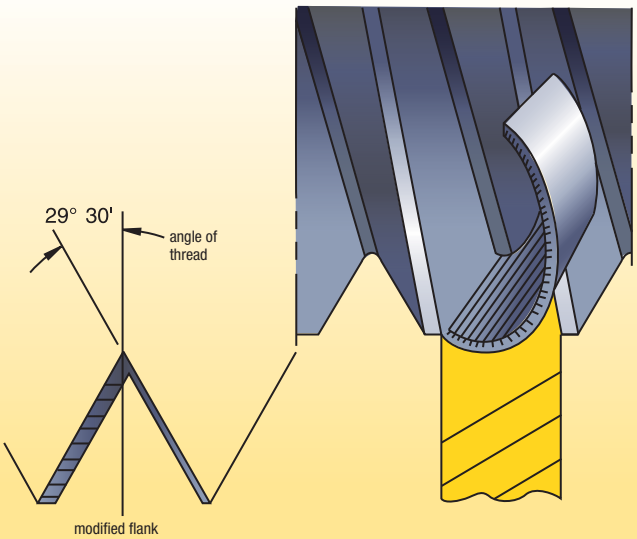


Machine Programming

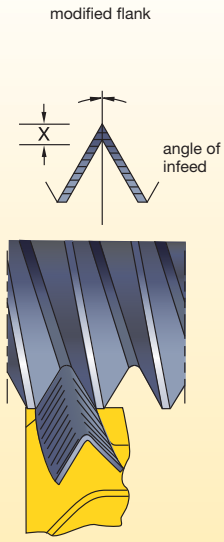
Modern CNC controls allow the programmer to easily adjust infeed angle, the number of passes, and depth of cut for each pass. The chip control threading insert performs best at an infeed angle of 29° 30', although 15° to 30° is acceptable. Also, it is important to maintain a minimum of .005" (0,127mm) depth of cut on every pass. In most applications, use of CNC canned cycles produce only marginally successful results. Custom written programs are better and are recommended.

Infeed Angle

In order to effectively and consistently break the chip, it is important to use an infeed angle between 28° and 29° 30'. Do not apply chip control inserts at infeed angles less than 15°.



Radial



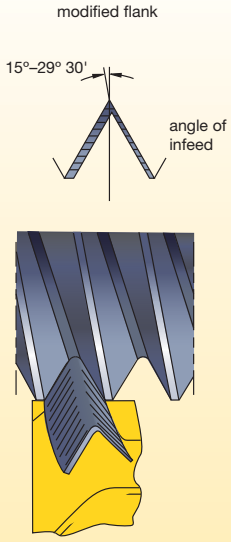
Advantage —

- Cutting on both sides of the thread form places all of the cutting edge in the cut and protects edge from chipping.
- Even wear on the insert.

Disadvantage —

- Tool develops a channel chip that may be difficult to handle.
- Tip chipping occurs when cutting high-tensile materials.
- Bur condition is increased.
- Entire cutting edge is engaged at finish of thread, causing increased tendency to chatter.

Modified flank



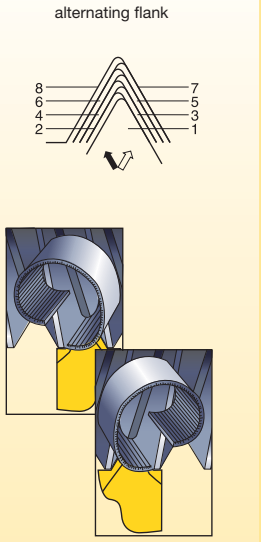
Advantage —

- Tool cuts both sides of thread form, so it is protected from chipping similar to 0° infeed. Channel-type chip develops, but uneven chip thickness helps remove the chip similar to flank infeed.
- This is the preferred method, especially when used with a chip control insert.
- Combined radial and/or alternating flank infeed.
- Results in good tool life, with wear evenly distributed over both flanks.

Disadvantage —

- Similar disadvantages as with 0° infeed, although reduced somewhat in magnitude as cutting forces are better equalized and chip flow is much less of a problem.

Alternating flank



Advantage —

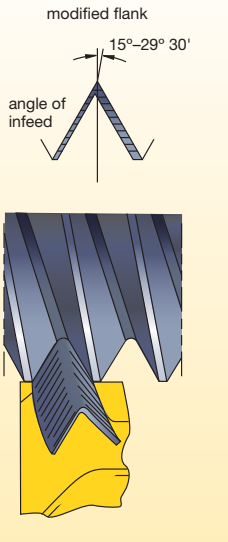
- Increased tool life because both edges are used equally.

NOTE: Some machine tools may require special programming techniques to achieve this method of infeed.

Disadvantage —

- Difficult to cut on conventional machinery.

Reversed modified flank



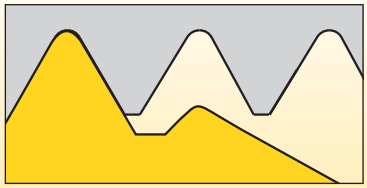
Advantage —

- Tool cuts both sides of thread form, so it is protected from chipping similar to 0° infeed. Channel-type chip develops, but uneven chip thickness helps remove the chip similar to flank infeed.
- This is the preferred method, especially when used with a chip control insert.
- Combined radial and/or alternating flank infeed.
- Results in good tool life, with wear evenly distributed over both flanks.
- As chip flow is the reversed feed direction, it is an excellent choice for internal threading.

Disadvantage —

- Programming needs to be done line by line.

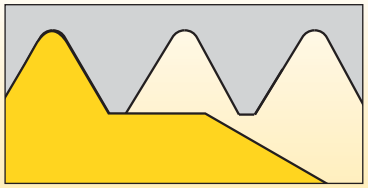
Partial Profile



Tooth profile with universal profile shape:

- Reduced inventory.
- For various pitches in a limited range.
- Major/minor diameters must be accurately pre-turned.

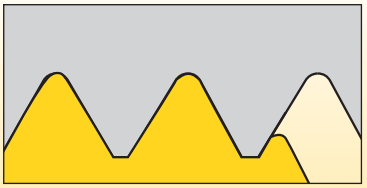
Full Profile



Tooth profile with full profile shape including tooth height:

- For bur-free, precise threads in the specified pitch.
- General application.
- Machining allowance for outside/core diameter around .004–.006".

Multi-Tooth Profile



Multi-tooth full profile generally with 2–3 teeth:

- Highly productive threading with fewer passes and longer tool life.
- Requires a rigid setup and long thread pass through.

Formulas

Inch Formula		
to find	**given**	**formula**
SFM	D (inch) RPM	$SFM = \frac{\pi \times D}{12"} \times RPM$
RPM	D (inch) SFM	$RPM = \frac{SFM \times 12"}{D \times \pi}$

Metric Formula		
to find	**given**	**formula**
m/min	D (mm) RPM	$m/min = \frac{\pi \times D}{1000} \times RPM$
RPM	D (mm) m/min	$RPM = \frac{m/min \times 1000}{D \times \pi}$

Legend

IPM	=	inch per minute
SFM	=	surface feet per minute
m/min	=	meters per minute
RPM	=	revolutions per minute
D	=	part diameter
π	=	3.1416

Maximum Cutting Speeds

On older machines cutting speed is often limited by the maximum travel speed (IPM or mm/min) of the tool allowed by the machine. Check your maximum speed with the following formulas:

inch formula: maximum cutting speed (SFM) =
part diameter (inch) x 3.14 x TPI x $\frac{\text{max IPM}}{12"}$

metric formula: maximum cutting speed (m/min) =
part diameter (mm) x 3.14 x (1/pitch) x $\frac{\text{max mm/min}}{1000mm}$

Flank clearance

γ = arctan (sin (β/2) * tan(α))
γ = side (flank) clearance
β = included angle of thread form
α = radial inclination angle

Thread	Angle	External	Internal
UN & ISO	60	5.3	8
BSW	55	4.8	7.3
TR	30	2.6	4
ACME	29	2.6	3.9
AMBUT	7	.6	.9
AMBUT	45	4	6

Recommendation for Threading Infeed Passes

TPI	48–32	28–24	20–16	14–12	11.5–9	8–6	5–4	3–2
metric pitch (mm)	0,50–0,75	0,80–1	1,25–1,5	1,75–2	2,5–3	3,5–4	4,5–6	8
Thread Type	**recommended number of passes**							
Common V-thread forms ISO, UN, UNJ, NPT, Whitworth, BSPT, API Rotary Shoulder	4–5	5–6	6–8	8–10	9–12	12–15	14–16	15–25
Acme, Trapez, Round, API Round	—	—	5–6	7–8	10–11	12–13	13–15	18–20
Stub Acme, API Buttress	—	—	5	5–6	7–8	8–10	10–12	14–16
American Buttress	—	—	7–8	9–10	11–12	13–15	17–19	22–24

NOTE: Maintain minimum .002" (0,05mm) infeed on last passes to avoid work hardening and excessive abrasion of the threading tool.

Constant Volume Infeed Values for Threading Operations

In most applications, use of CNC canned cycles produces only marginally successful results. For example, an 8-pitch external thread has a depth of .0789" (2mm).

$$\Delta ap_x = \frac{ap}{\sqrt{nap-1}} * \sqrt{\phi}$$

Formula for constant chip load infeed

Δap = radial infeed
x = actual pass (from 1 to the nap)
nap = number of passes
ϕ = 1st pass, 0.3
2nd pass, 1
3rd pass and up, x-1

Using Radial Infeed

Bending stress on the cutting edge caused by V-shaped chips from long-chipping steel workpiece materials.

High cutting forces with small cutting thicknesses require sharp edges with high strength.

Using Flank Infeed

Lower bending stress and stabilized cutting edges produce more favorable chip shapes and larger cutting thicknesses.

Carbides with high hardness, good wear resistance, and temperature stability are advantageous.

Guidelines for Infeeds — How to Determine the Number and the Size of Passes

The number of passes “s” per thread is decisive for successful threading and crest turning. The following tables give standard values for the application condition when machining steel. The proper number of passes must be determined empirically.

If insert breakage occurs, the number of passes must be increased. With increased wear, we recommend decreasing the number of passes. The chip thickness should not be less than .0019" (0,05mm). The allowance at the diameter should not exceed .0078" (0,2mm).

Metric ISO, External Thread Cutting

thread pitch P (mm)	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,50	3,00	3,50	4,00	4,50	5,00
T Ap (in)	.012	.018	.024	.030	.036	.042	.048	.060	.072	.085	.097	.109	.121
N Ap	4	4	5	6	6	8	8	10	12	14	15	15	16
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0038	0.0057	0.0066	0.0073	0.0088	0.0087	0.0099	0.0110	0.0119	0.0129	0.0142	0.0160	0.0171
2	0.0031	0.0047	0.0054	0.0061	0.0073	0.0072	0.0082	0.0090	0.0098	0.0107	0.0117	0.0132	0.0141
3	0.0029	0.0043	0.0050	0.0056	0.0067	0.0066	0.0075	0.0083	0.0090	0.0098	0.0107	0.0121	0.0129
4	0.0022	0.0033	0.0038	0.0043	0.0051	0.0050	0.0058	0.0064	0.0069	0.0075	0.0082	0.0093	0.0099
5			0.0032	0.0036	0.0043	0.0043	0.0049	0.0054	0.0058	0.0063	0.0069	0.0078	0.0084
6				0.0032	0.0038	0.0037	0.0043	0.0047	0.0051	0.0056	0.0061	0.0069	0.0074
7						0.0034	0.0039	0.0043	0.0046	0.0050	0.0055	0.0062	0.0067
8						0.0031	0.0036	0.0039	0.0043	0.0046	0.0051	0.0057	0.0061
9								0.0037	0.0040	0.0043	0.0047	0.0053	0.0057
10								0.0034	0.0037	0.0040	0.0044	0.0050	0.0054
11									0.0035	0.0038	0.0042	0.0047	0.0051
12									0.0034	0.0036	0.0040	0.0045	0.0048
13										0.0035	0.0038	0.0043	0.0046
14										0.0033	0.0037	0.0041	0.0044
15											0.0035	0.0040	0.0043
16													0.0041
T Ap (in)	0.012	0.018	0.024	0.030	0.036	0.042	0.048	0.060	0.072	0.085	0.097	0.109	0.121

NOTE: Always allow .003–.005" extra stock for full profile inserts.

Metric ISO, Internal Thread Cutting

thread pitch P (mm)	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.50	4.00	4.50	5.00
T Ap	0.011	0.016	0.021	0.027	0.032	0.037	0.043	0.053	0.064	0.075	0.085	0.096	0.107
N Ap	4	4	5	6	6	8	8	10	11	12	14	15	16
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0035	0.0051	0.0058	0.0066	0.0078	0.0077	0.0089	0.0097	0.0111	0.0124	0.0129	0.0141	0.0151
2	0.0029	0.0042	0.0047	0.0055	0.0065	0.0063	0.0074	0.0080	0.0092	0.0102	0.0107	0.0116	0.0125
3	0.0026	0.0038	0.0043	0.0050	0.0059	0.0058	0.0067	0.0073	0.0084	0.0094	0.0098	0.0106	0.0114
4	0.0020	0.0029	0.0033	0.0038	0.0045	0.0044	0.0052	0.0056	0.0064	0.0072	0.0075	0.0082	0.0088
5			0.0028	0.0032	0.0038	0.0037	0.0044	0.0047	0.0054	0.0061	0.0063	0.0069	0.0074
6				0.0029	0.0034	0.0033	0.0038	0.0042	0.0048	0.0053	0.0056	0.0061	0.0065
7						0.0030	0.0035	0.0038	0.0043	0.0048	0.0050	0.0055	0.0059
8						0.0027	0.0032	0.0035	0.0040	0.0044	0.0046	0.0050	0.0054
9								0.0032	0.0037	0.0041	0.0043	0.0047	0.0050
10								0.0030	0.0035	0.0039	0.0040	0.0044	0.0047
11									0.0033	0.0037	0.0038	0.0042	0.0045
12										0.0035	0.0036	0.0040	0.0043
13											0.0035	0.0038	0.0041
14											0.0033	0.0036	0.0039
15												0.0035	0.0038
16													0.0036
T Ap	0.011	0.016	0.021	0.027	0.032	0.037	0.043	0.053	0.064	0.075	0.085	0.096	0.107

NOTE: Always allow .003–.005" extra stock for full profile inserts.

UN Thread, External Thread Cutting

TPI	24	20	18	16	14	12	11	10	9	8	7	6	5
T Ap (in)	0.026	0.031	0.034	0.038	0.036	0.042	0.048	0.060	0.072	0.085	0.097	0.109	0.121
N Ap	5	6	6	7	9	9	10	11	12	13	14	15	16
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0071	0.0076	0.0083	0.0085	0.0070	0.0081	0.0088	0.0104	0.0119	0.0134	0.0147	0.0160	0.0171
2	0.0059	0.0063	0.0069	0.0070	0.0058	0.0067	0.0072	0.0086	0.0098	0.0111	0.0122	0.0132	0.0141
3	0.0054	0.0057	0.0063	0.0064	0.0053	0.0062	0.0066	0.0079	0.0090	0.0102	0.0111	0.0121	0.0129
4	0.0041	0.0044	0.0048	0.0049	0.0040	0.0047	0.0051	0.0060	0.0069	0.0078	0.0086	0.0093	0.0099
5	0.0035	0.0037	0.0041	0.0042	0.0034	0.0040	0.0043	0.0051	0.0058	0.0066	0.0072	0.0078	0.0084
6		0.0033	0.0036	0.0037	0.0030	0.0035	0.0038	0.0045	0.0051	0.0058	0.0064	0.0069	0.0074
7				0.0033	0.0027	0.0032	0.0034	0.0040	0.0046	0.0052	0.0057	0.0062	0.0067
8					0.0025	0.0029	0.0031	0.0037	0.0043	0.0048	0.0053	0.0057	0.0061
9					0.0023	0.0027	0.0029	0.0035	0.0040	0.0045	0.0049	0.0053	0.0057
10							0.0027	0.0033	0.0037	0.0042	0.0046	0.0050	0.0054
11								0.0031	0.0035	0.0040	0.0044	0.0047	0.0051
12									0.0034	0.0038	0.0042	0.0045	0.0048
13										0.0036	0.0040	0.0043	0.0046
14											0.0038	0.0041	0.0044
15												0.0040	0.0043
16													0.0041
T Ap (in)	0.026	0.031	0.034	0.038	0.036	0.042	0.048	0.060	0.072	0.085	0.097	0.109	0.121

NOTE: Always allow .003–.005" extra stock for full profile inserts.

UN Thread, Internal Thread Cutting

TPI	24	20	18	16	14	12	11	10	9	8	7	6	5
T Ap	.023	.027	.030	.034	.039	.045	.049	.054	.060	.068	.077	.090	.108
N Ap	5	6	6	7	8	9	9	10	11	12	13	14	15
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0063	0.0066	0.0073	0.0076	0.0081	0.0087	0.0095	0.0099	0.0104	0.0112	0.0122	0.0137	0.0158
2	0.0052	0.0055	0.0061	0.0063	0.0067	0.0072	0.0078	0.0081	0.0086	0.0093	0.0101	0.0113	0.0131
3	0.0048	0.0050	0.0056	0.0057	0.0061	0.0066	0.0072	0.0075	0.0079	0.0085	0.0092	0.0103	0.0120
4	0.0037	0.0038	0.0043	0.0044	0.0047	0.0051	0.0055	0.0057	0.0060	0.0065	0.0071	0.0079	0.0092
5	0.0031	0.0032	0.0036	0.0037	0.0039	0.0043	0.0046	0.0048	0.0051	0.0055	0.0060	0.0067	0.0077
6		0.0029	0.0032	0.0033	0.0035	0.0038	0.0041	0.0042	0.0045	0.0048	0.0052	0.0059	0.0068
7				0.0030	0.0031	0.0034	0.0037	0.0038	0.0040	0.0044	0.0047	0.0053	0.0062
8					0.0029	0.0031	0.0034	0.0035	0.0037	0.0040	0.0044	0.0049	0.0057
9						0.0029	0.0032	0.0033	0.0035	0.0037	0.0041	0.0046	0.0053
10								0.0031	0.0033	0.0035	0.0038	0.0043	0.0050
11									0.0031	0.0033	0.0036	0.0041	0.0047
12										0.0032	0.0034	0.0039	0.0045
13											0.0033	0.0037	0.0043
14											0.0031	0.0035	0.0041
15													0.0039
16													
T Ap	0.023	0.027	0.030	0.034	0.039	0.045	0.049	0.054	0.060	0.068	0.080	0.090	0.108

NOTE: Always allow .003–.005" extra stock for full profile inserts.

NPT Thread, External, and Internal Machining

TPI	27	18	14	11.5	8
T Ap	0.030	0.044	0.056	0.068	0.098
N Ap	6	8	10	12	14
	values for flank infeed (X/Z)				
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0073	0.0091	0.0102	0.0112	0.0149
2	0.0061	0.0075	0.0084	0.0093	0.0123
3	0.0056	0.0069	0.0077	0.0085	0.0113
4	0.0043	0.0053	0.0059	0.0065	0.0086
5	0.0036	0.0045	0.0050	0.0055	0.0073
6	0.0032	0.0039	0.0044	0.0048	0.0064
7		0.0035	0.0040	0.0044	0.0058
8		0.0033	0.0037	0.0040	0.0053
9			0.0034	0.0037	0.0050
10			0.0032	0.0035	0.0047
11				0.0033	0.0044
12				0.0032	0.0042
13					0.0040
14					0.0038
15					
16					
T Ap	0.030	0.044	0.056	0.068	0.098

BSPT Thread, External, and Internal Machining

TPI	28	19	14	11
T Ap	0.023	0.034	0.046	0.057
N Ap	5	8	10	12
	values for flank infeed (X/Z)			
order of passes	X/Z	X/Z	X/Z	X/Z
1	0.0063	0.0070	0.0084	0.0094
2	0.0052	0.0058	0.0069	0.0078
3	0.0048	0.0053	0.0064	0.0071
4	0.0037	0.0041	0.0049	0.0055
5	0.0031	0.0034	0.0041	0.0046
6		0.0030	0.0036	0.0041
7		0.0027	0.0033	0.0037
8		0.0025	0.0030	0.0034
9			0.0028	0.0031
10			0.0026	0.0029
11				0.0028
12				0.0027
13				
14				
15				
16				
T Ap	0.023	0.034	0.046	0.057

NOTE: Always allow .003–.005" extra stock for full profile inserts.

Trapezoid Thread to DIN 103, External, and Internal Machining

pitch	1.50	2.00	3.00	4.00	5.00
T Ap	0.040	0.049	0.069	0.089	0.108
N Ap	6	8	10	12	14
	values for flank infeed (X/Z)				
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0098	0.0101	0.0126	0.0147	0.0164
2	0.0081	0.0084	0.0104	0.0121	0.0135
3	0.0074	0.0077	0.0095	0.0111	0.0124
4	0.0057	0.0059	0.0073	0.0085	0.0095
5	0.0048	0.0050	0.0062	0.0072	0.0080
6	0.0042	0.0044	0.0054	0.0063	0.0071
7		0.0040	0.0049	0.0057	0.0064
8		0.0036	0.0045	0.0053	0.0059
9			0.0042	0.0049	0.0055
10			0.0039	0.0046	0.0051
11				0.0044	0.0049
12				0.0041	0.0046
13					0.0044
14					0.0042
15					
16					
T Ap	0.040	0.049	0.069	0.089	0.108

Round Thread to DIN 405, External, and Internal Machining

pitch	10	8	6
T Ap	0.052	0.064	0.085
N Ap	8	10	12
	values for flank infeed (X/Z)		
order of passes	X/Z	X/Z	X/Z
1	0.0108	0.0117	0.0140
2	0.0089	0.0096	0.0116
3	0.0081	0.0088	0.0106
4	0.0062	0.0068	0.0081
5	0.0053	0.0057	0.0069
6	0.0046	0.0050	0.0061
7	0.0042	0.0046	0.0055
8	0.0039	0.0042	0.0050
9		0.0039	0.0047
10		0.0037	0.0044
11			0.0042
12			0.0040
13			
14			
15			
16			
T Ap	0.052	0.064	0.085

NOTE: Always allow .003–.005" extra stock for full profile inserts.

Whitworth, External, and Internal Thread Cutting

TPI	28	20	19	16	14	12	11	10	9	8	7	6	5
T Ap	0.023	0.032	0.032	0.034	0.040	0.053	0.058	0.064	0.071	0.080	0.091	0.107	0.128
N Ap	5	6	6	8	8	9	9	10	11	12	14	15	16
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.0063	0.0078	0.0078	0.0070	0.0083	0.0103	0.0112	0.0117	0.0123	0.0132	0.0138	0.0157	0.0181
2	0.0052	0.0065	0.0065	0.0058	0.0068	0.0085	0.0093	0.0096	0.0102	0.0109	0.0114	0.0129	0.0149
3	0.0048	0.0059	0.0059	0.0053	0.0063	0.0078	0.0085	0.0088	0.0093	0.0100	0.0105	0.0118	0.0137
4	0.0037	0.0045	0.0045	0.0041	0.0048	0.0060	0.0065	0.0068	0.0071	0.0077	0.0080	0.0091	0.0105
5	0.0031	0.0038	0.0038	0.0034	0.0041	0.0050	0.0055	0.0057	0.0060	0.0065	0.0068	0.0077	0.0089
6		0.0034	0.0034	0.0030	0.0036	0.0044	0.0048	0.0050	0.0053	0.0057	0.0060	0.0068	0.0078
7				0.0027	0.0032	0.0040	0.0044	0.0046	0.0048	0.0051	0.0054	0.0061	0.0071
8				0.0025	0.0030	0.0037	0.0040	0.0042	0.0044	0.0047	0.0050	0.0056	0.0065
9						0.0034	0.0037	0.0039	0.0041	0.0044	0.0046	0.0052	0.0060
10								0.0037	0.0039	0.0041	0.0043	0.0049	0.0057
11									0.0036	0.0039	0.0041	0.0046	0.0054
12										0.0037	0.0039	0.0044	0.0051
13											0.0037	0.0042	0.0049
14											0.0036	0.0040	0.0047
15												0.0039	0.0045
16													0.0043
T Ap	0.023	0.032	0.032	0.034	0.040	0.053	0.058	0.064	0.071	0.080	0.091	0.107	0.128

NOTE: Always allow .003–.005" extra stock for full profile inserts.

Multi-Tooth Threads, Internal

	ISO metric						ISO UN					Whitworth	NPT		
type	3M	2M	3M	2M	3M	2M	2M	3M	2M	3M	2M	2M	2M	3M	2M
pitch (mm)	1.0	1.5	1.5	2.0	2.0	3.0	—	—	—	—	—	—	—	—	—
TPI	—	—	—	—	—	—	16	16	12	12	8	11	11.5	11.5	8
total depth	.024	.033	.033	.460	.460	.070	.037	.037	.490	.490	.740	.620	.690	.690	.100
1	.013	.015	.020	.020	.028	.022	.017	.022	.022	.030	.023	.029	.023	.032	.035
2	.011	.010	.013	.015	.018	.019	.012	.015	.016	.019	.020	.019	.020	.022	.025
3	—	.008	—	.011	—	.017	.008	—	.011	—	.017	.014	.014	.015	.022
4	—	—	—	—	—	.012	—	—	—	—	.014	—	.012	—	.018

Recommendations for Steel Workpieces (<300 BHN)

			total depth — on radius		
catalog number	insert size	TPI profile	1st pass	2nd pass	3rd pass
NTC-8R/L8EM	8	8 UN	.048	.064	.079
NTC-8R/L8IM	8	8 UN	.047	.061	.074
NTC-8R/L10EM	8	10 UN	.036	.050	.063
NTC-8R/L10IM	8	10 UN	.035	.048	.060
NTC-8R/L12EM	8	12 UN	.030	.041	.052
NTC-8R/L12IM	8	12 UN	.030	.037	.047
NTC-8R/L14EM	8	14 UN	.027	.037	.044
NTC-8R/L14IM	8	14 UN	.024	.031	.041
NTC-8R/L16EM 8	8	16 UN	.023	.032	.038
NTC-8R/L16IM	8	16 UN	.020	.027	.037
NTC-8R/L18EM	8	18 UN	.019	.026	.034
NTC-8R/L18IM	8	18 UN	.019	.024	.033
NDC-68RDR/L-75M	8	8 round	.058	.065	.073
NDC-61RDR/L-75M	8	10 round	.044	.051	.057
NDC-88RDRD/L-75M	8	8 round	.051	.069	.073
NDC-88VR/L-75M	8	8 NPT	.040	.068	.096
NDC-8115VR/L-75M	8	11.5 NPT	.038	.054	.067
NDN-814VR/L-75M	8	14 NPT	.038	.054	.054

NOTE: Always allow .003–.005" extra stock for full profile inserts.

ACME, External

pitch, TPI	28	20	19	16	14	12	11	10	9	8	7	6	5
depth	.028	.032	.032	.034	.040	.053	.058	.064	.071	.080	.091	.107	0.128
number of passes	5	6	6	8	8	9	9	10	11	12	14	15	16
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	.039	.041	.050	.063	.074	.095	.112	.138	.180	.256	.008/-	.008/-	.008/-
2	.009	.008	.009	.010	.010	.011	.012	.013	.019	.028	.013/.007	.014/.007	.017/.009
3	.009	.008	.009	.009	.010	.011	.011	.012	.018	.026	.01/.005	.011/.006	.013/.007
4	.007	.007	.007	.009	.009	.010	.010	.011	.016	.023	.008/.004	.009/.005	.011/.006
5	.006	.006	.007	.007	.007	.009	.010	.011	.015	.022	.007/.004	.008/.004	.009/.005
6	.005	.005	.005	.006	.006	.008	.009	.010	.013	.019	.007/.003	.007/.004	.009/.004
7	.003	.004	.005	.005	.005	.007	.008	.010	.011	.017	.006/.003	.007/.004	.008/.004
8		.003	.004	.005	.005	.006	.007	.009	.011	.015	.006/.003	.006/.003	.007/.004
9			.004	.004	.005	.006	.007	.008	.009	.013	.005/.003	.006/.003	.007/.004
10				.004	.005	.006	.007	.008	.009	.013	.005/.003	.005/.003	.006/.003
11				.004	.004	.006	.006	.007	.009	.011	.005/.002	.005/.003	.006/.003
12					.004	.006	.006	.007	.008	.011	.004/.002	.005/.003	.006/.003
13					.004	.005	.006	.006	.007	.010	.004/.002	.005/.003	.006/.003
14						.004	.005	.006	.007	.009	.004/.002	.005/.002	.005/.003
15							.004	.006	.007	.009		.005/.002	.005/.003
16							.004	.006	.006	.008			.005/.003
17								.004	.005	.007	.004/.002	.005/.003	.006/.003
18								.004	.005	.007	.004/.002	.005/.002	.005/.003
19									.005	.006		.005/.002	.005/.003
20										.006			.005/.003

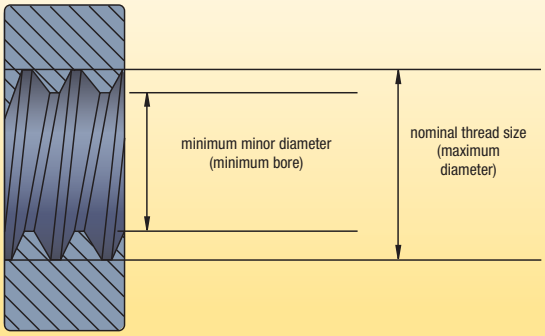
NOTE: Always allow .003–.005" extra stock for full profile inserts.

ACME, Internal

pitch, TPI	28	20	19	16	14	12	11	10	9	8	7	6	5
depth	.028	.032	.032	.034	.040	.053	.058	.064	.071	.080	.091	.107	0.128
number of passes	5	6	6	8	8	9	9	10	11	12	14	15	16
	values for flank infeed (X/Z)												
order of passes	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	.039	.041	.050	.063	.074	.095	.112	.138	.180	.256	.008/-	.008/-	.008/-
2	.009	.008	.009	.010	.010	.011	.012	.013	.019	.028	.013/.007	.014/.007	.017/.009
3	.009	.008	.009	.009	.010	.011	.011	.012	.018	.026	.01/.005	.011/.006	.013/.007
4	.007	.007	.007	.009	.009	.010	.010	.011	.016	.023	.008/.004	.009/.005	.011/.006
5	.006	.006	.007	.007	.007	.009	.010	.011	.015	.022	.007/.004	.008/.004	.009/.005
6	.005	.005	.005	.006	.006	.008	.009	.010	.013	.019	.007/.003	.007/.004	.009/.004
7	.003	.004	.005	.005	.005	.007	.008	.010	.011	.017	.006/.003	.007/.004	.008/.004
8		.003	.004	.005	.005	.006	.007	.009	.011	.015	.006/.003	.006/.003	.007/.004
9			.004	.004	.005	.006	.007	.008	.009	.013	.005/.003	.006/.003	.007/.004
10				.004	.005	.006	.007	.008	.009	.013	.005/.003	.005/.003	.006/.003
11				.004	.004	.006	.006	.007	.009	.011	.005/.002	.005/.003	.006/.003
12					.004	.006	.006	.007	.008	.011	.004/.002	.005/.003	.006/.003
13					.004	.005	.006	.006	.007	.010	.004/.002	.005/.003	.006/.003
14						.004	.005	.006	.007	.009	.004/.002	.005/.002	.005/.003
15							.004	.006	.007	.009		.005/.002	.005/.003
16							.004	.006	.006	.008			.005/.003
17								.004	.005	.007	.004/.002	.005/.003	.006/.003
18								.004	.005	.007	.004/.002	.005/.002	.005/.003
19									.005	.006		.005/.002	.005/.003
20										.006			.005/.003

NOTE: Always allow .003–.005" extra stock for full profile inserts.

The following charts list the largest thread pitch that can be applied on internal applications using Top Notch threading inserts for 60° V-threading and Acme threading.



Inch-Sized 60° V-Threading Limits
internal threading limitations
NT-1, NT-2 V-threading inserts

TPI	nominal thread size		minimum minor diameter (inch)	
	NT-1	NT-2	NT-1	NT-2
6	1-7/8	—	1.695	—
7	1-3/4	—	1.595	—
8	1-5/8	—	1.490	—
9	1-9/16	—	1.442	—
10	1-1/2	15/16	1.392	.830
11	1-7/16	15/16	1.339	.830
11-1/2	1-3/8	15/16	1.281	.830
12	1-3/8	9/16	1.285	.472
13	1-5/16	9/16	1.229	.472
14	1-1/4	9/16	1.173	.472
16	1-1/4	9/16	1.182	.472
18	1-1/8	9/16	1.065	.472
20	1-1/8	1/2	1.071	.440
24*	1-1/16	1/2	1.017	.440

*Twenty-four threads per inch and finer can be cut with an NT-2 insert provided the minor diameter is 1.000" or larger (.440" or larger with NT-1).

internal threading limitations
NT-3 and- 4 V-threading inserts

TPI	nominal thread size	minimum minor diameter (inch)
4**	3	2.729
4-1/2**	2-7/8	2.634
5	2-3/4	2.534
6	2-1/2	2.320
7	2-1/4	2.095
8	2	1.865
9	1-15/16	1.817
10	1-7/8	1.767
11	1-13/16	1.714
11-1/12	1-3/4	1.656
12	1-3/4	1.660
13	1-5/8	1.542
14	1-9/16	1.485
16*	1-7/16	1.370

*Sixteen threads per inch and finer can be cut provided minor diameter is 1.370" or larger.
**NT-4 insert only.

Metric-sized 60° V-Threading Limits
internal threading limitations
NT-1, NT-2 60° V-threading inserts

TPI	nominal thread size		minimum thread diameter (inch)	
	NT-1	NT-2	NT-1	NT-2
4,00	M48 x 4.00	–	43,67	–
3,00	M42 x 3.00	–	38,75	–
2,50	M39 x 2.50	M24 x 2,50	36,29	21,29
2,00	M33 x 2.00	M15 x 2,00	30,84	12,84
1,75	M32 x 1.75	M15 x 1,75	30,11	13,11
1,50	M32 x 1.50	M15 x 1,50	30,38	13,38
1,25	M29 x 1.29	M14 x 1,25	27,65	12,65
1,00*	M27 x 1.00	M14 x 1,00	25,92	12,92
0,75	M22 x 0.75	M12 x 0,75	21,19	11,19

*Thread pitch of 1mm and less can be cut with an NT-2 insert provided the core thread diameter is 25mm or larger (11mm or larger with NT-1).

internal threading limitations
NT-3 and NT-4 60° V-threading inserts

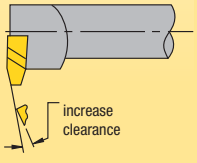
TPI	nominal thread size	minimum thread diameter (inch)
6,00**	M76 x 6.00	69,50
5,50**	M73 x 5.50	67,05
5,00	M70 x 5.00	64,59
4,00	M64 x 4.00	59,67
3,00	M52 x 3.00	48,75
2,50	M48 x 2.50	45,29
2,00	M42 x 2.00	39,84
1,75	M40 x 1.75	38,11
1,50*	M38 x 1.50	36,38

*Thread pitch of 1,5mm and less can be cut provided core thread diameter is 35mm or larger.
**NT-4-insert only.

Acme Threading Limits
internal threading limitations
NA and NAS-2, -3, -4, and -6 Acme threading inserts

TPI	nominal thread size	minimum thread diameter (inch)	
	NT-1	NT-1	NT-2
2**	5	4.500	114.3
2-1/2**	4-1/2	4.100	104.1
3**	4	3.665	93.1
4	3-1/2	3.250	82.6
5	3	2.800	71.1
6	2-1/2	2.333	59.3
8	2-1/4	2.125	54.0
10	2	1.900	48.3
12	1-3/4	1.667	42.4
14	1-5/8	1.554	39.5
16*	1-1/2	1.438	36.5

*Sixteen threads per inch and finer can be cut provided minor diameter is 1.438" (36,5mm) or larger.
**NA-6 insert only.



Additional secondary clearance can be ground on leading edge of insert to provide sufficient helical clearance for machining coarser threads and multiple start threads. Modified standard inserts may be furnished for machining threads outside of the limits shown.

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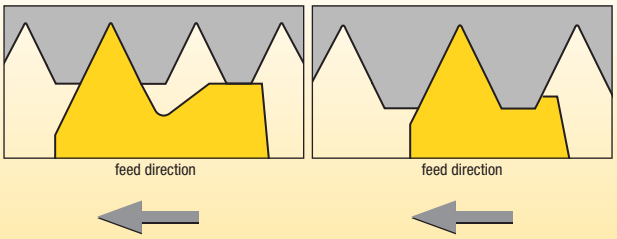
60° V-Thread Crest Turning Application Data



NTC crest turning insert for 12 threads per inch and finer (P ≤ 2mm).

NTC crest turning insert for 11 threads per inch and coarser (P ≥ 3mm).

NOTE: NTC inserts automatically control root to crest dimensions. Therefore, in setting up threading operations with NTC inserts, check the O.D. or I.D. at the thread crest for correct dimensions.

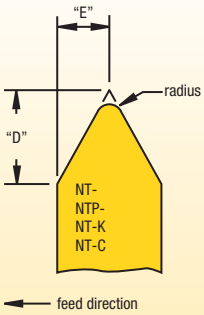
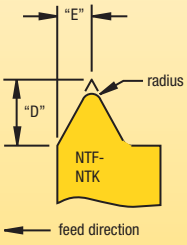
60° V-Thread Crest Turning Application Data

insert catalog number	nose radius on insert (inch)	thread radius per MIL-S-8879A (inch)
NJ-3014R/L12	.0125/.0135	.0125/.0150
NJK-3008R/L20	.0075/.0085	.0075/.0090

"J" thread note for catalog

The controlled root radius thread form (SAE8879C) is defined for the external thread only. To machine the corresponding internal thread, choose any insert that will cut a unified class 2B thread, then bore the minor diameter to size. Refer to SAE8879C and MIL-S-8879C and SAEAS8879D for the correct "J" thread minor diameter values.

60° V-Thread Application Data

insert description	insert	D** (inch)	E** (inch)	recommended TPI*		recommended TP*	
				external	internal	external	internal
	NT-1	.075	.044	–	24–12	–	1,00–2,00
	NT-2	.113	.075	36–8	20–7	0,70–3,00	1,25–3,50
	NT-2-K	.113	.075	36–8	20–7	0,70–3,00	1,25–3,50
	NTF-2	.062	.040	44–14	24–12	0,60–1,75	1,00–2,00
	NTK-2	.062	.040	44–14	24–12	0,60–1,75	1,00–2,00
	NTP-2	.113	.075	36–8	20–7	0,70–3,00	1,25–3,50
	NT-3	.148	.097	20–6	12–5	1,25–4,00	2,00–5,00
	NT-3-K	.148	.097	20–6	12–5	1,25–4,00	2,00–5,00
	NT-3-C	.148	.097	11–6	6 (only)	2,50–4,00	4,00 (only)
	NT-3-CK	.148	.097	11–6	6 (only)	2,50–4,00	4,00 (only)
	NTF-3	.083	.054	44–10	24–9	0,60–2,50	1,00–2,50
	NTK-3	.083	.054	44–10	24–9	0,60–2,50	1,00–2,50
	NTP-3	.148	.097	20–6	12–5	1,25–4,00	2,00–5,00
	NT-4	.196	.127	20–4	12–4	1,25–6,25	2,00–6,25
	NT-4-K	.196	.127	20–4	12–4	1,25–6,25	2,00–6,25
	NTP-4	.196	.127	20–4	12–4	1,25–6,25	2,00–6,25

*Based on maximum insert radius size and class 2A and 2B thread specifications.
**For metric D and E dimensions, multiply by 25,4.

API Thread Forms • Insert Applications Chart for API Rotary Shouldered Connections

thread form	Kennametal insert		tool joint application	minimum box size*
	cresting	non-cresting		
V-.038R 2" TPF 4 TPI	NDC-4038R/L2 4-E/IR4API382	ND-3038R/L	2-3/8 API internal flush 2-7/8 API internal flush 3-1/2 API internal flush 4 API internal flush 4-1/2 API internal flush 5-1/2 API internal flush 6-5/8 API internal flush 4 API full hole API #23, API #26, API #31, API #35, API #38, API #40, API #44, API #46, API #50	API #31 2-7/8 IF
V-.038R 3" TPF 4 TPI	NDC-4038R/L3 4-E/IR4API383	ND-3038R/L	API #56 API #61 API #70 API #77	API #56
V-.050 2" TPF 4 TPI	NDC-4050R/L2 4-E/IRAPI502	ND-4050R/L	5-1/2 API full hole 6-5/8 API regular 6-5/8 API full hole	5-1/2 API full hole
V-.050 3" TPF 4 TPI	NDC-4050R/L3 4-E/IR4API503	ND-4050R/L	5-1/2 API regular 7-5/8 API regular 8-5/8 API regular	5-1/2 API regular
V-.040 3" TPF 5 TPI	NDC-3040R/L3 NDC-4040R/L3 4-E/IR5API403	ND-3040R/L ND-4040R/L	2-3/8 API regular 2-7/8 API regular 3-1/2 API regular 4-1/2 API regular	3-1/2 API regular

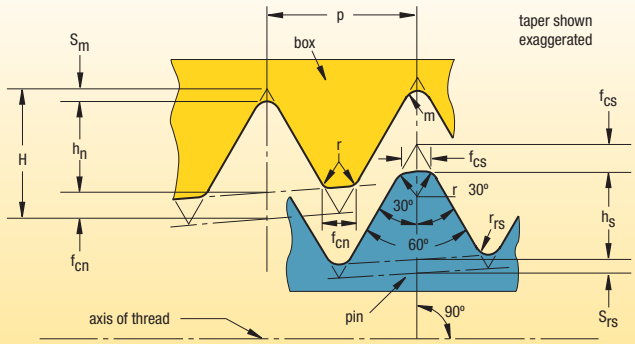
*Minimum box size that can be threaded with a standard Top Notch insert due to minimum bore equipment.

API Thread Forms
Product Thread Dimensions • Rotary Shouldered Connections (Inch)

thread form	taper inch per ft.	thread height, not truncated H	thread height, truncated $h_n=h_s$	root truncation $S_m=S_{rs}$ $f_m=f_{rs}$	crest truncation $f_{cn}=f_{cs}$	width of flat		root radius $r_m=r_{rs}$	radius at thread corners r	pitch p
						crest $f_{cn}=f_{cs}$	crest $f_m=f_{rs}$			
V-.038R	2	.216005	.121844	.038000	.056161	.065	—	.038	.015	.250
V-.038R	3	.215379	.121381	.038000	.055998	.065	—	.038	.015	
V-.040	3	.172303	.117842	.020000	.034461	.040	—	.020	.015	.250
V-.050	3	.215379	.147303	.025000	.043076	.050	—	.025	.015	
V-.050	2	.216005	.147804	.025000	.043201	.050	—	.025	.015	.250

NOTE: All dimensions in inches.

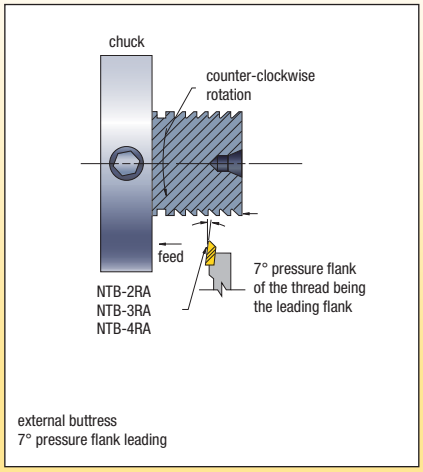
V-.040 and V-.050 Product Thread Form

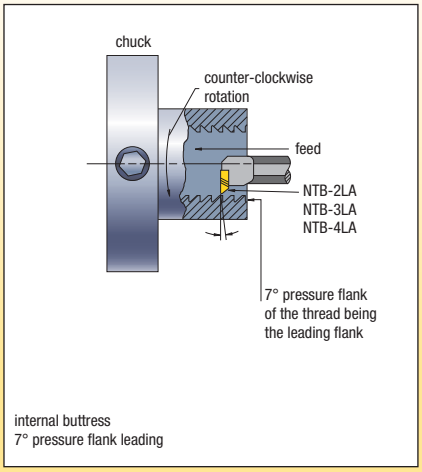


Casing and Tubing Round Thread (Height Dimensions)

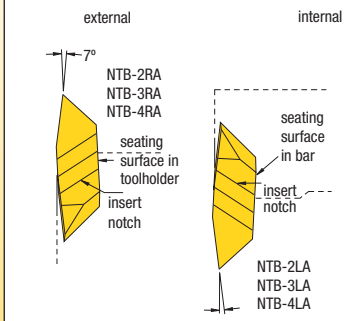
thread element		10 TPI p= .1000	8 TPI p= .1250
H	= .866p	.08660	.10825
$H_s = h_n$	= .626p - .007	.05560	.07125
$S_{rs} = S_m$	= .120p + .002	.01400	.01700
$S_{cs} = S_{cn}$	= .120p + .005	.01700	.02000

American Buttress (7° Pressure Flank Leading) NTB-A Inserts • Push Type

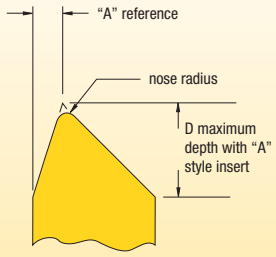




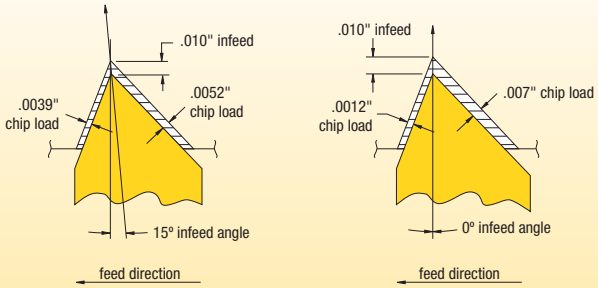
Insert vs. Toolholder Orientation



Reference Dimensions



Infeed Angle vs. Chip Load: 7° Pressure Flank Leading



NTB-A insert

insert	D (inch)	"A" ref. (inch)	nose radius (inch)	pitch based on maximum radius
NTB-2A	.133	.024	.002–.004	16–20 TPI
NTB-3A	.171	.031	.005–.008	8–16 TPI
NTB-4A	.218	.049	.008–.012	4–6 TPI

NOTE: For balanced chip load, 15° infeed angle is suggested.

Internal Threading Limitations

internal threading limitations
NTB-2A Buttress threading inserts

TPI	nominal thread size	minimum minor diameter (inch)
8	1-3/4	1.600
10	1-5/8	1.505
12	1-1/2	1.400
16	1-1/4	1.175
20	1-1/16	1.002

internal threading limitations
NTB-3 and NTB-4A Buttress threading inserts

TPI	nominal thread size	minimum minor diameter (inch)
4*	2-1/2	2.200
5	2-1/4	2.010
6	2	1.800
8	1-3/4	1.600
10	1-5/8	1.505
12**	1-1/2	1.400

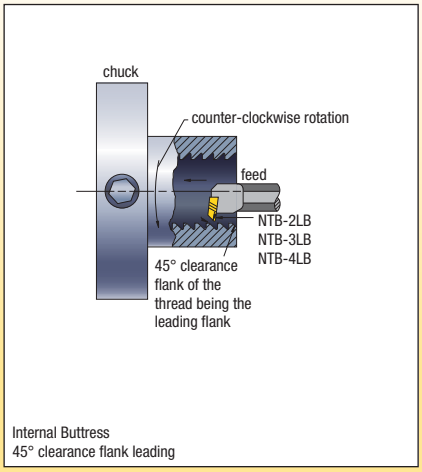
*NTB-4A insert only.
**Can cut 16 or 20 threads per inch provided minor diameter is 1.375" or larger.

Threads per Inch vs. Maximum Root Radius Chart (Inch)

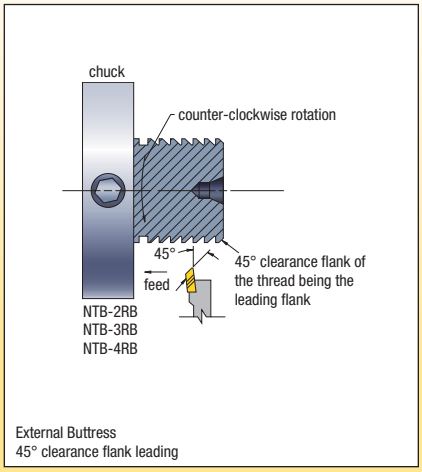
TPI	20	16	12	10	8	6	5	4	3	2-1/2	2	1-1/2	1-1/4	1
maximum root radius	.0036	.0045	.0059	.0071	.0089	.0119	.0143	.0179	.0238	.0268	.0375	.0476	.0572	.0714

NOTE: Special Buttress forms are available upon request.

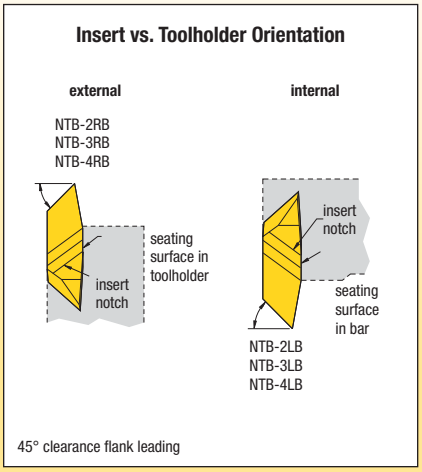
American Buttress (45° Clearance Flank Leading): NTB-B Inserts • PULL-type



Internal Buttress
45° clearance flank leading

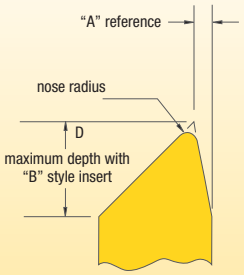


External Buttress
45° clearance flank leading

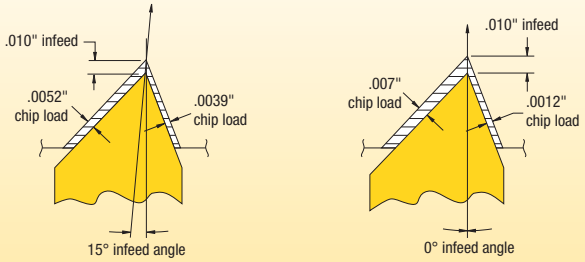


45° clearance flank leading

Reference Dimensions



Infeed Angle vs. Chip Load: 45° Clearance Flank Leading



NTB-B insert

insert	D (inch)	"A" reference (inch)	nose radius (inch)	pitch based on maximum radius
NTB-3B	.171	.031	.005–.004	8–16 TPI

NOTE: For balanced chip load, a reverse 15° infeed angle is suggested.

Internal Threading Limitations

internal threading limitations
NTB-2B Buttress threading inserts

TPI	nominal thread size	minimum minor diameter (inch)
8	1-3/4	1.600
10	1-5/8	1.505
12	1-1/2	1.400
16	1-1/4	1.175
20	1-1/16	1.002

internal threading limitations
NTB-3 and NTB-4B Buttress threading inserts

TPI	nominal thread size	minimum minor diameter (inch)
4*	2-7/8	2.575
5	2-3/4	2.510
6	2-3/8	2.175
8	2-1/8	1.975
10	1-7/8	1.755
12	1-5/8	1.525
16	1-1/2	1.407
20	1-7/16	1.378

*NTB-4B insert only.

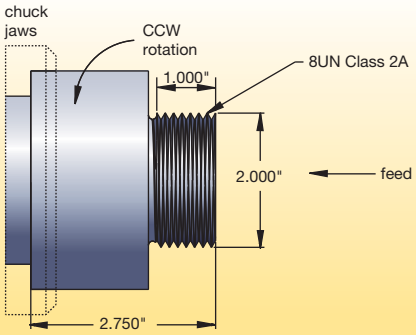
Required Information

From Part Drawing:

material: 316SS, 200 HB
thread form: 8UN
tolerance: class 2A
operation: external threading
pitch diameter: 2.00" x 1.00" deep

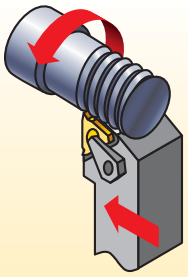
From Machine Setup Data:

tooling: .750" x .750"
spindle rotation: counter-clockwise
feed: toward chuck



Steps for a Successful Threading Operation

Step 1 • Determine Threading Method



Need to Know:

- Operation (external).
- Spindle rotation (CCW).
  Counter-clockwise rotation.
- Feed direction (toward chuck).
- Right-hand toolholder.
- Right-hand insert (ER).
- Standard helix method.

Step 2 • Select Insert

Need to Know:

- Thread form (8 UN Class 2A).
- Hand of insert (right hand — ER).

Choose the High-Performance Solution

catalog number	insert size	KCU25/ KC5025
3ER8UN	3"	•

High-Performance Selection

NOTE: Use insert with largest IC available.
insert: 3ER8UN
grade: KCU25/KC5025
speed: 500 SFM

Step 3 • Select the Grade and Speed

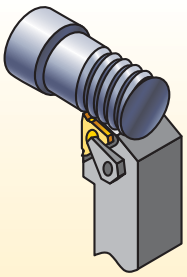
Need to Know:

- Workpiece material (316SS-200HB).
- Operation (external).

Options: Grade and Speed Selection Guidelines

threading operation	stainless steel
external	general purpose and high performance
	KC5025
	150–450 SFM

Step 4 • Select Toolholder



Need to Know:

- External or internal operation (external).
- Pitch diameter to determine minimum bore diameter (N/A).
- Type of tooling — toolholder, boring bar (toolholder).
- Hand of tool (right hand).
- Insert size (3/8").

Options:

catalog number	insert size	shim
LSASR-123	3"	SM-YE3

First choice: LSASR-123 holder

Step 5 • Select Shim

Need to Know:

- Thread form — TPI or pitch (8 TPI).
- Pitch diameter (2").
- Helix method (standard). See Laydown Threading (LT) shim selection chart.

Select SM-YE3 shim

NOTE: The SM-YE3 shim is supplied with the selected toolholder.

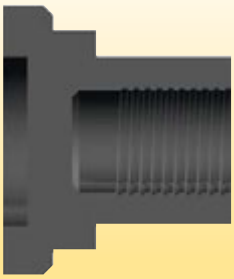
Required Information

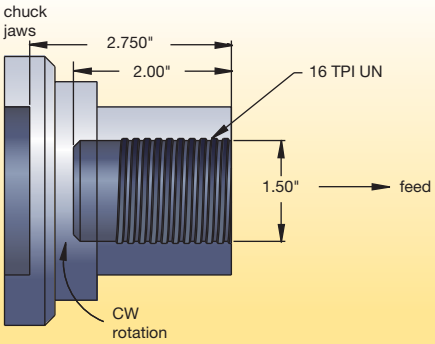
From Part Drawing:

material:	4140 steel
thread form:	16 TPI UN
tolerance:	class 2B
operation:	internal threading
pitch diameter:	1.5" x 2" deep

From Machine Setup Data:

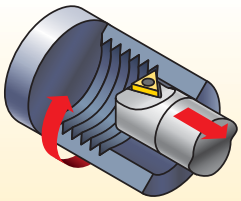
tooling:	.075" boring bar
spindle rotation:	clockwise
feed:	away from chuck





Steps for a Successful Threading Operation

Step 1 • Determine Threading Method



Need to Know:

- Operation (internal).
- Spindle rotation (CW). *Clockwise rotation.*
- Feed direction (away from chuck).
- Left-hand toolholder.
- Left-hand insert (NL).
- Reverse helix method.

Step 2 • Select Insert

Need to Know:

- Thread form (16UN Class 2B).
- Hand of insert (left hand — NL).

Choose the High-Performance Solution

catalog number	insert size	KCU25/ KC5025
2ILA60	2"	•
3ILA60	3"	•

High-Performance Selection

NOTE: Use insert with largest possible IC to go into the bore.

insert:	3ILA60
grade:	TN6025
speed:	450 SFM

Step 3 • Select the Grade and Speed

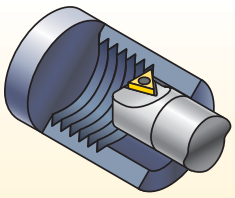
Need to Know:

- Workpiece material (4010 steel).
- Operation (internal).

Options: Grade and Speed Selection Guidelines

threading operation	steel
internal	general purpose and high performance
	KC5025
	100–550 SFM

Step 4 • Select Toolholder



Need to Know:

- External or internal operation (internal).
- Pitch diameter to determine minimum bore diameter for internal operations (1.5").
- Type of tooling — toolholder, boring bar (boring bar).
- Hand of tool (left hand).
- Insert size (3/8").

Options:

catalog number	insert size	minimum bore diameter	shim
S1212-LSEL3	3"	.90	SM-YE3
S0812-LSEL2	2"	.65	—

First choice: LSASR-123 holder

Step 5 • Select Shim

Need to Know:

- Thread form — TPI or pitch (8 TPI).
- Pitch diameter (2").
- Helix method (standard). See Laydown Threading (LT) shim selection chart.

Select SM-YE3 shim

NOTE: For this application, the standard shim supplied should be replaced with the recommended shim, SM-YE3-2N.

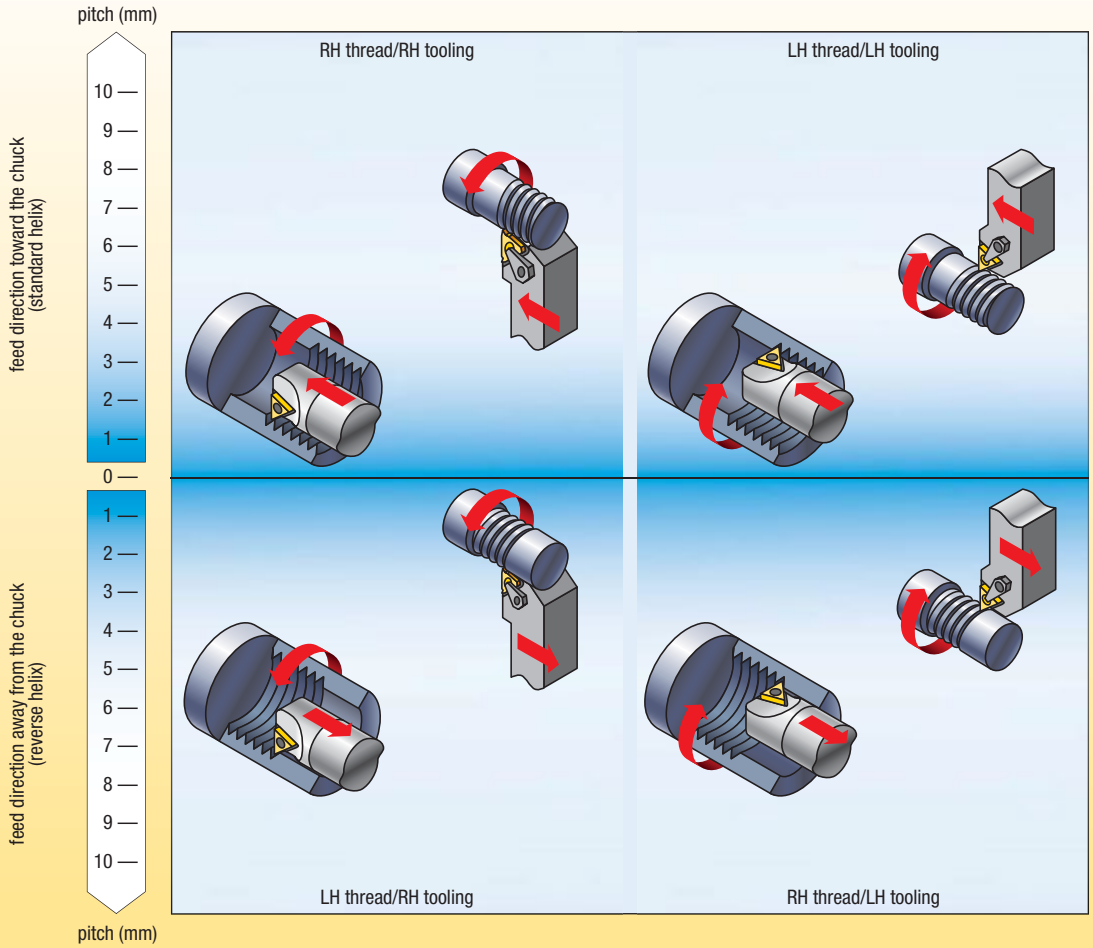
Laydown Threading Shim Selection Guidelines

It is essential to select the correct shim to ensure thread quality and maximum tool life. These parameters are needed:

- Pitch
- Pitch diameter
- Number of starts
- Feed direction

NOTE: When considering method of thread cutting, the part's shape and stability and the flow of chips are determining factors in your decision.

Laydown Selection Chart



NOTE: For multi-start threads, use the lead value instead of the pitch.

Diagram of Thread Lead Angles

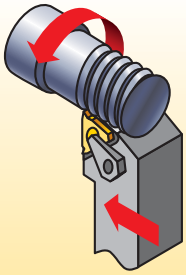
To calculate the lead angle of a given thread, use this formula:

$$ß = \text{Arctan} \frac{P \bullet S}{\pi D_e}$$

ß = thread lead angle
D_e = effective pitch diameter of thread wear
P = 1/TPI
TPI = threads per inch
S = number of starts
single-start, lead = pitch
multiple-start, lead = pitch (x) number of starts

All toolholders are designed with an inclination angle = 1.5°. When turning standard threads with a lead angle of 1–2°, this guarantees adequate clearance at the flanks of the insert's thread tooth. The thread lead angle and the required inclination angle of the insert are given by ß.

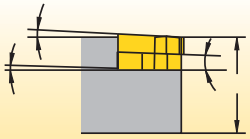
Cutting edge height is constant at every shim and insert combination. All toolholders are supplied with 1-1/2° lead angle.



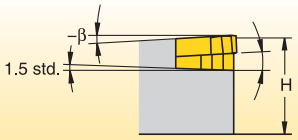
Laydown Threading Shim Selection Table • Inch

	toolholder		shim ordering code (inch)							
insert size	external	internal				standard				
3 (3/8")	RH	LH	SM–YE3–3P	SM–YE3–2P	SM–YE3–1P	SM–YE3	SM–YE3–1N	SM–YE3–1.5N	SM–YE3–2N	SM–YE3–3N
3 (3/8")	LH	RH	SM–YI3–3P	SM–YI3–2P	SM–YI3–1P	SM–YI3	SM–YI3–1N	SM–YI3–1.5N	SM–YI3–2N	SM–YI3–3N
4 (1/2")	RH	LH	SM–YE4–3P	SM–YE4–2P	SM–YE4–1P	SM–YE4	SM–YE4–1N	SM–YE4–1.5N	SM–YE4–2N	SM–YE4–3N
4 (1/2")	LH	RH	SM–YI4–3P	SM–YI4–2P	SM–YI4–1P	SM–YI4	SM–YI4–1N	SM–YI4–1.5N	SM–YI4–2N	SM–YI4–3N
TPI		pitch (mm)	pitch diameter (inch)							
72		–	–	–	–	0.12–0.31	0.32–0.84	>0.84	0.84–0.32	0.31–0.12
–		0,35	–	–	–	0.12–0.3	0.31–0.84	>0.84	0.84–0.31	0.3–0.12
64		–	–	–	–	0.14–0.35	0.36–0.95	>0.95	0.95–0.36	0.35–0.14
–		0,40	–	–	–	0.14–0.35	0.36–0.96	>0.96	0.96–0.36	0.35–0.14
56		0,45	–	–	–	0.16–0.4	0.41–1.09	>1.09	1.09–0.41	0.4–0.16
–		0,50	–	–	0.11–0.16	0.17–0.44	0.45–1.2	>1.20	1.2–0.45	0.44–0.17
48		–	–	–	0.12–0.17	0.18–0.46	0.47–1.27	>1.27	1.27–0.47	0.46–0.18
44		–	–	–	0.13–0.19	0.2–0.51	0.52–1.38	>1.38	1.38–0.52	0.51–0.2
–		0,60	–	0.1–0.12	0.13–0.2	0.21–0.53	0.54–1.44	>1.44	1.44–0.54	0.53–0.21
40		–	–	0.11–0.13	0.14–0.21	0.22–0.56	0.57–1.52	>1.52	1.52–0.57	0.56–0.22
–		0,70	–	0.12–0.15	0.16–0.23	0.24–0.62	0.63–1.68	>1.68	1.68–0.63	0.62–0.24
36		–	–	0.12–0.15	0.16–0.23	0.24–0.62	0.63–1.69	>1.69	1.69–0.63	0.62–0.24
–		0,75	0.11–0.12	0.13–0.16	0.17–0.25	0.26–0.66	0.67–1.8	>1.80	1.8–0.67	0.66–0.26
32		–	0.12–0.13	0.14–0.17	0.18–0.26	0.27–0.7	0.71–1.9	>1.90	1.9–0.71	0.7–0.27
–		0,80	0.12–0.13	0.14–0.17	0.18–0.26	0.27–0.71	0.72–1.91	>1.91	1.91–0.72	0.71–0.27
28		–	0.14–0.14	0.15–0.19	0.2–0.3	0.31–0.8	0.81–2.17	>2.17	2.17–0.81	0.8–0.31
27		–	0.14–0.15	0.16–0.2	0.21–0.31	0.32–0.83	0.84–2.25	>2.25	2.25–0.84	0.83–0.32
–		1,00	0.15–0.16	0.17–0.21	0.22–0.33	0.34–0.89	0.9–2.39	>2.39	2.39–0.9	0.89–0.34
24		–	0.16–0.17	0.18–0.23	0.24–0.35	0.36–0.94	0.95–2.53	>2.53	2.53–0.95	0.94–0.36
–		1,25	0.19–0.2	0.21–0.27	0.28–0.42	0.43–1.11	1.12–2.99	>2.99	2.99–1.12	1.11–0.43
20		–	0.19–0.21	0.22–0.27	0.28–0.42	0.43–1.13	1.14–3.04	>3.04	3.04–1.14	1.13–0.43
18		–	0.21–0.23	0.24–0.31	0.32–0.47	0.48–1.26	1.277–3.38	>3.38	3.38–1.27	1.26–0.48
–		1,50	0.22–0.25	0.26–0.33	0.34–0.5	0.51–1.34	1.35–3.59	>3.59	3.59–1.35	1.34–0.51
16		–	0.24–0.26	0.27–0.35	0.36–0.53	0.54–1.41	1.42–3.8	>3.80	3.8–1.42	1.41–0.54
–		1,75	0.26–0.29	0.3–0.38	0.39–0.59	0.6–1.56	1.57–4.19	>4.19	4.19–1.57	1.56–0.6
14		–	0.27–0.3	0.31–0.4	0.41–0.61	0.62–1.62	1.63–4.34	>4.34	4.34–1.63	1.62–0.62
13		–	0.29–0.32	0.33–0.43	0.44–0.66	0.67–1.74	1.75–4.68	>4.68	4.68–1.75	1.74–0.67
–		2,00	0.3–0.33	0.34–0.44	0.45–0.67	0.68–1.78	1.79–4.79	>4.79	4.79–1.79	1.78–0.68
12		–	0.32–0.35	0.36–0.46	0.47–0.71	0.72–1.89	1.9–5.07	>5.07	5.07–1.9	1.89–0.72
11.5		–	0.33–0.37	0.38–0.49	0.5–0.74	0.75–1.97	1.98–5.29	>5.29	5.29–1.98	1.97–0.75
11		–	0.34–0.38	0.39–0.51	0.52–0.78	0.79–2.06	2.07–5.53	>5.53	5.53–2.07	2.06–0.79
–		2,50	0.37–0.42	0.43–0.55	0.56–0.84	0.85–2.23	2.24–5.98	>5.98	5.98–2.24	2.23–0.85
10		–	0.38–0.42	0.43–0.56	0.57–0.86	0.87–2.27	2.28–6.08	>6.08	6.08–2.28	2.27–0.87
9		–	0.42–0.47	0.48–0.62	0.63–0.95	0.96–2.52	2.53–6.75	>6.75	6.75–2.53	2.52–0.96
–		3,00	0.45–0.5	0.51–0.66	0.67–1.02	1.03–2.68	2.69–7.18	>7.18	7.18–2.69	2.68–1.03
8		–	0.47–0.53	0.54–0.7	0.71–1.08	1.09–2.84	2.85–7.6	>7.60	7.6–2.85	2.84–1.09
–		3,50	0.52–0.59	0.6–0.77	0.78–1.19	1.2–3.13	3.14–8.38	>8.38	8.38–3.14	3.13–1.2
7		–	0.524–0.61	0.62–0.8	0.81–1.23	1.24–3.25	3.26–8.68	>8.68	8.68–3.26	3.25–1.24
–		4,00	0.6–0.67	0.68–0.89	0.9–1.36	1.37–3.58	3.59–9.57	>9.57	9.57–3.59	3.58–1.37
6		–	0.63–0.71	0.72–0.94	0.95–1.44	1.45–3.79	3.8–10.13	>10.13	10.13–3.8	3.79–1.45
–		5,00	0.75–0.84	0.85–1.11	1.12–1.7	1.71–4.48	4.49–11.97	>11.97	11.97–4.49	4.48–1.71
5		–	0.76–0.86	0.87–1.13	1.14–1.73	1.74–4.55	4.56–12.16	>12.16	12.16–4.56	4.55–1.74
4.5		–	0.84–0.95	0.96–1.26	1.27–1.92	1.93–5.06	5.07–13.51	>13.51	13.51–5.07	5.06–1.93
–		6,00	0.9–1.01	1.02–1.33	1.34–2.04	2.05–5.37	5.38–14.36	>14.36	14.36–5.38	5.37–2.05
4		–	0.95–1.07	1.08–1.41	1.42–2.16	2.17–5.69	5.7–15.2	>15.20	15.2–5.7	5.69–2.17
inclination angle			4.5	3.5	2.5	1.5	0.5	0.0	-0.5	-1.5
			standard helix (feed toward the chuck)						reverse helix (feed away from the chuck)	

1. Select TPI or pitch from the left-hand columns.
2. Follow row to specified pitch diameter and the correct feed direction.
3. Follow the column to the top for the required shim based on the toolholder and insert size.



standard helix method:
Used when RH thread is cut with RH tool or LH thread with LH tool.



reverse helix method:
Used when RH thread is cut with LH tool or when LH thread is cut with RH tool.

Application Specific

Fix-Perfect E2–E23

Top Notch Profiling E24–E49

Railroad Machining E50–E67

K-Lock Inserts ..... E68 –E71

Fix-Perfect™

Precision Ground Insert Program Goes Above and Beyond!

The breakthrough performance characteristics of these precision ground inserts enable outstanding indexing accuracy and excellent chip flow when machining steel, cast iron, and stainless steel workpiece materials.

Fix-Perfect Beyond inserts are the ideal solution to machining operations in a multitude of industries, including fluid power, energy, automotive, heavy equipment, and general engineering applications.

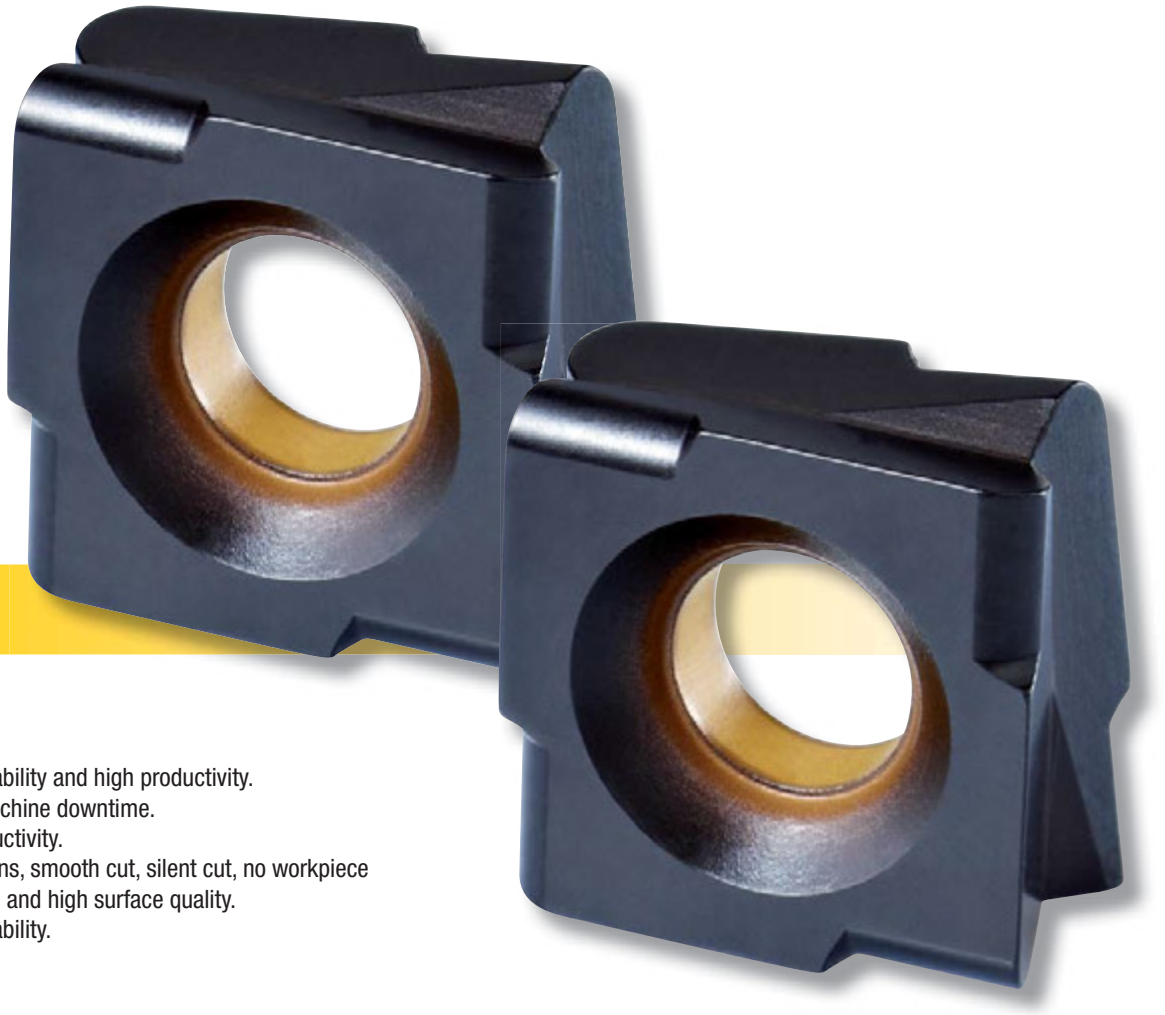
Features, Functions, and Benefits

Features

- Tangential design.
- Rigid clamping system.
- Up to eight cutting edges (protected by pocket seat).
- Positive geometry.
- Precision ground insert.

Functions

- Stable system.
- Very stable clamping system and quick and easy cutting edge switch.
- Use up to eight edges per insert.
- Very low cutting forces and excellent chip control.
- Better indexing accuracy.

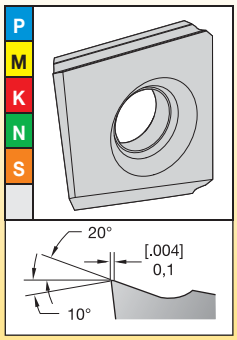


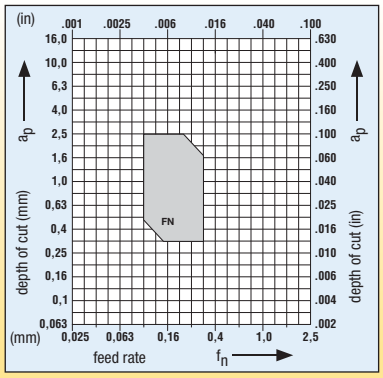
Benefits

- Process reliability and high productivity.
- Reduced machine downtime.
- Higher productivity.
- Low vibrations, smooth cut, silent cut, no workpiece deformation, and high surface quality.
- Process reliability.

Finishing

D2FIX-FN

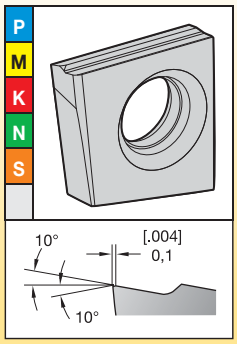


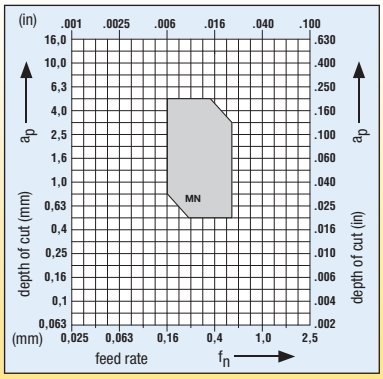


P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous Materials
S	High-Temp Alloys
H	Hardened Materials

Medium Machining

C2FIX15-MN





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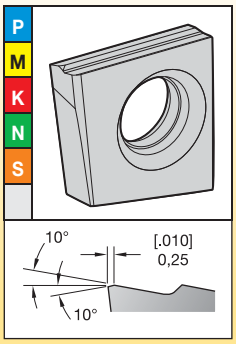

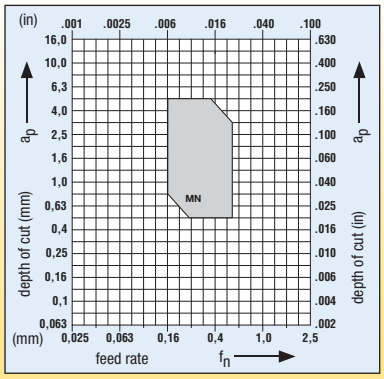

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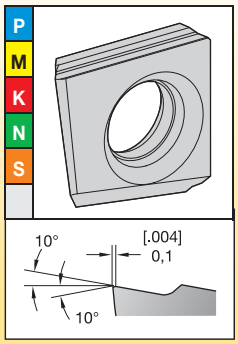

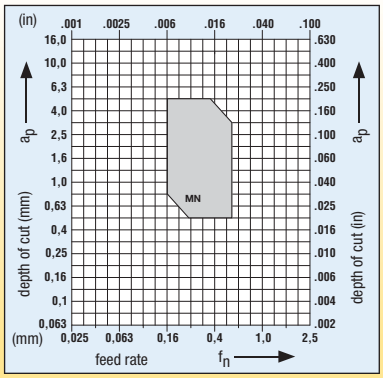

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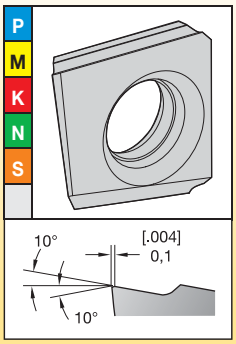
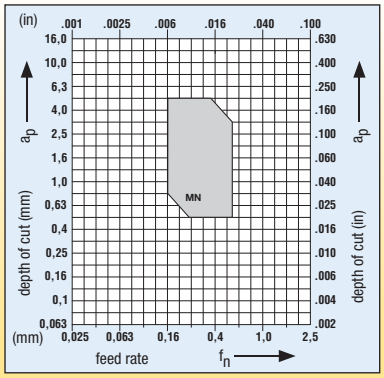
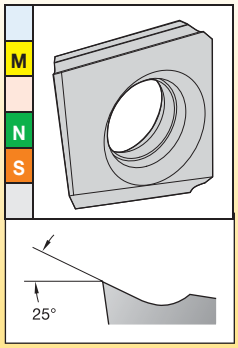
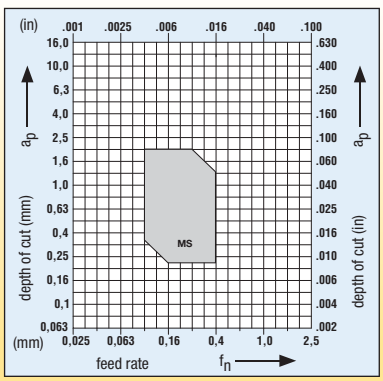




D2FIX-MS





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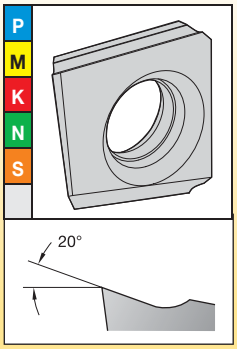
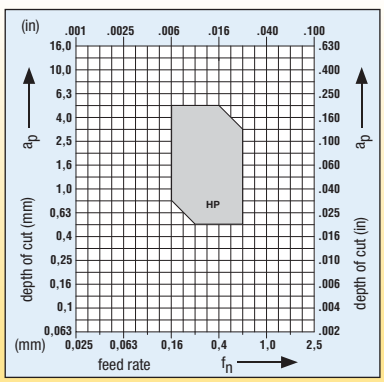
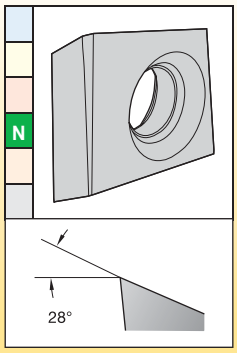


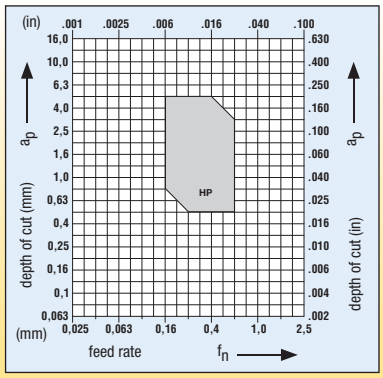


Medium Machining

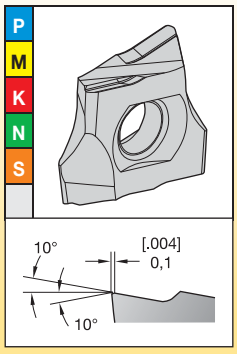
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous Materials
S	High-Temp Alloys
H	Hardened Materials

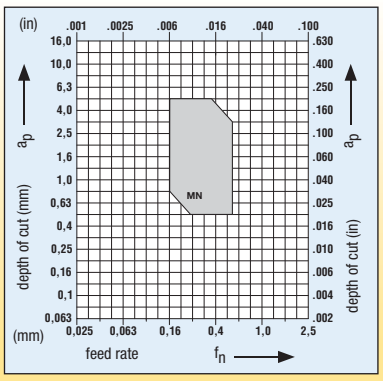
E2FIX-HP



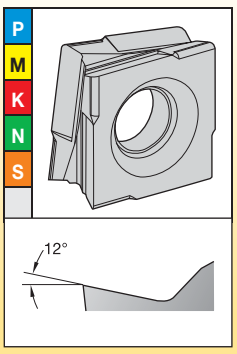


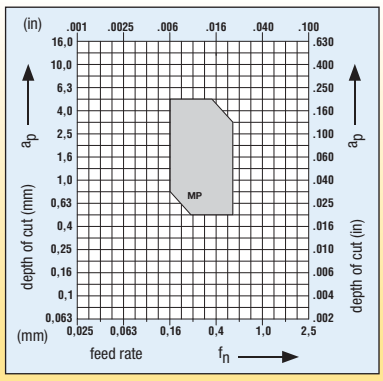
D4FIX-MN





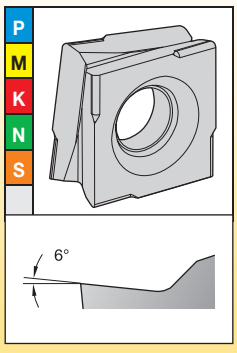
C8FIX-MP

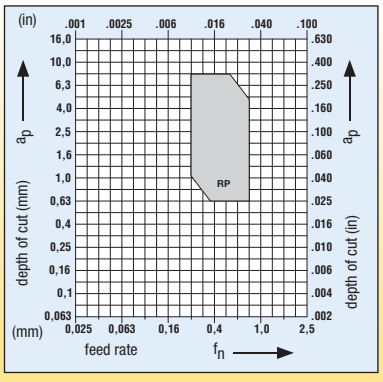




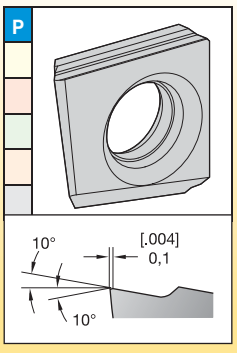
Roughing

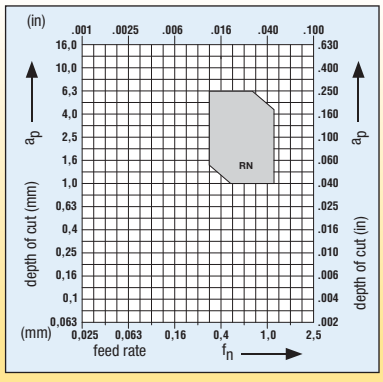
C8FIX-RP



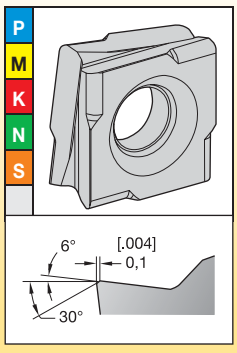


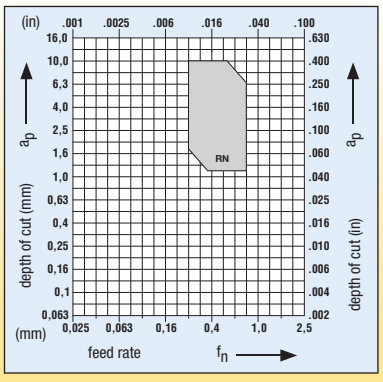
D2FIX-RN



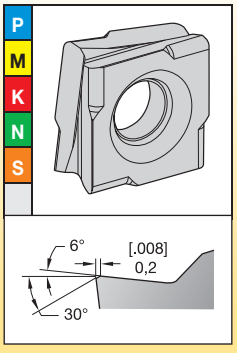


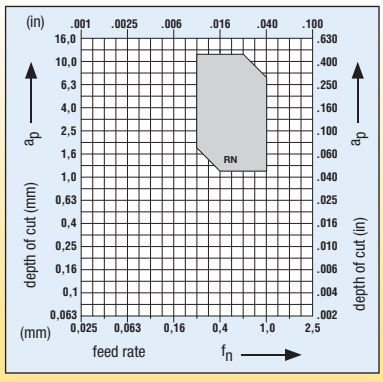
C8FIX15-RN





C8FIX18-RN





Select the Insert Geometry

8-Edged Inserts

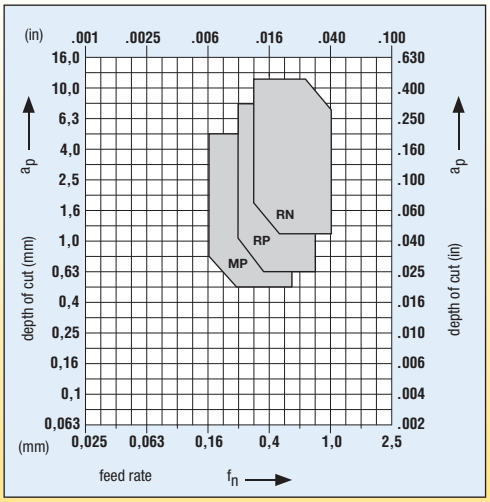
Roughing
Interrupted cut and/or heavy scale
USE: -RP OR -RN

-RP

-RN

Medium Turning
Slightly interrupted cut and/or slight scale
USE: -MP

-MP

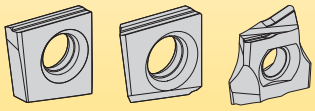


2- and 4-Edged Inserts

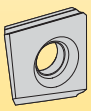
Roughing
Interrupted cut and/or heavy scale
USE: -RN

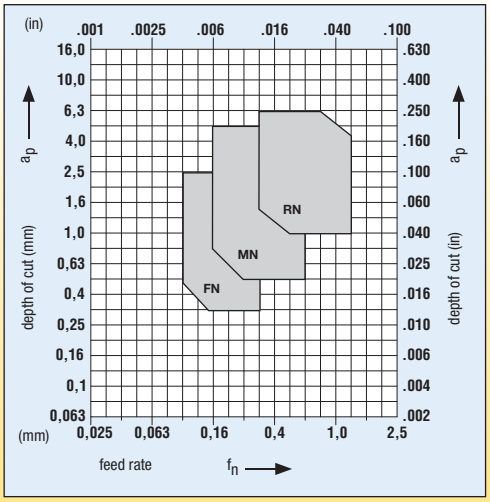
-RN

Medium Turning
Slightly interrupted cut and/or slight scale
USE: -MN


-MN

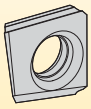
Finishing
Non-interrupted cut, not scale
USE: FN

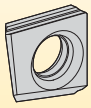

-FN

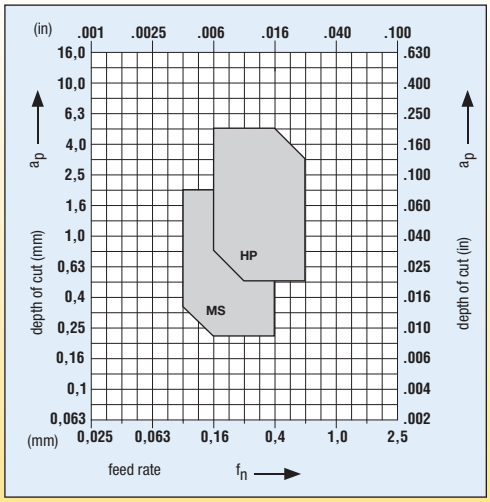


2-Edged Inserts, High Positive

Medium Turning
Slightly interrupted cut and/or slight scale
USE: -HP OR -MS


-HP


-MS



Select the grade

	P	M	K	N	S	H
heavily interrupted	KCP40/KCU25	KCU25/KCP40	KCP25/KCU25	KCU25	KCU25	–
lightly interrupted	KCP25/KCU25	KCU25/KCP40	KCP25/KCU25	KCU25	KCU25	–
varying depths of cut	KCP10/KCU10	KCU10/KCM15	KCP10/KCU10	KCU10	KCU10	KCU10
smooth	KCP10/KCU10	KCU10/KCM15	KCP10/KCU10	KCU10	KCU10	KCU10

Select the cutting speed

Steel — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	60 (200)	90 (300)	120 (400)	105 (500)	185 (617)	215 (717)	245 (800)	275 (900)	300 (1000)	m/min	SFM
P	KCP40				◁▷						150	500
	KCU10						◁▷				200	650
	KCP25						◁▷				200	650
	KCP10							◁▷			250	180

Stainless Steel — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	45 (150)	70 (233)	90 (300)	115 (383)	140 (467)	165 (550)	185 (617)	210 (700)	230 (767)	m/min	SFM
M	KCP40					◁▷					140	450
	KCM15						◁▷				165	550
	KCU25						◁▷				165	550
	KCU10							◁▷			185	600

Cast Iron — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	m/min	SFM
K	KCU25			◁▷							140	450
	KCU10				◁▷						165	550
	KCP25					◁▷					165	550
	KCP10						◁▷				185	600

Non-Ferrous — speed — m/min (SFM) — starting conditions ◁▷

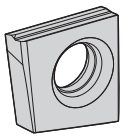
material group	grade	150 (500)	225 (750)	300 (1000)	380 (1267)	460 (1533)	535 (1783)	610 (2033)	685 (2283)	760 (2533)	m/min	SFM
N	KCU10					◁▷					460	1500

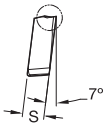
High-Temperature Alloys — speed — m/min (SFM) — starting conditions ◁▷

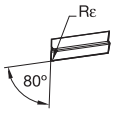
material group	grade	35 (117)	45 (150)	55 (183)	65 (217)	75 (250)	85 (283)	95 (317)	120 (400)	140 (467)	m/min	SFM
S	KCU25		◁▷								45	150
	KCU10				◁▷						60	200

Hardened Steel — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	5 (17)	15 (50)	25 (83)	35 (117)	45 (150)	55 (183)	65 (217)	75 (250)	85 (283)	m/min	SFM
H	KCU10				◁▷						30	100







● first choice
○ alternate choice

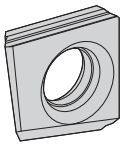
beyond

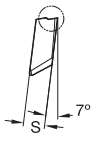
		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

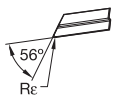
C2FIX-MN

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
C2FIX110404RMN	10,70	.423	4,00	.157	0,40	.016	–	–	–	–	●	–
C2FIX110405RMN	10,70	.432	4,00	.157	0,50	.020	–	●	●	–	–	–
C2FIX150510RMN	14,50	.572	5,00	.197	1,00	.039	–	●	–	–	–	–
C2FIX150512RMN	14,50	.571	5,00	.197	1,20	.048	–	–	–	–	–	●
C2FIX150505RMN	14,70	.578	5,00	.197	0,50	.020	–	●	–	–	–	–
left hand												
C2FIX110404LMN	10,70	.423	4,00	.157	0,40	.016	–	–	–	–	–	●
C2FIX110405LMN	10,70	.423	4,00	.157	0,50	.020	–	●	●	–	●	–
C2FIX110408LMN	10,70	.419	4,00	.157	0,80	.032	–	●	–	–	–	–
C2FIX150510LMN	14,50	.571	5,00	.197	1,00	.039	–	●	●	–	–	–
C2FIX150508LMN	14,60	.574	5,00	.197	0,80	.032	–	●	–	–	●	●
C2FIX150504LMN	14,70	.578	5,00	.197	0,40	.016	–	–	●	–	–	●
C2FIX150505LMN	14,70	.578	5,00	.197	0,50	.020	–	●	●	–	●	–
C2FIX180610LMN	17,50	.689	6,00	.236	1,00	.039	–	●	●	–	●	–

beyond





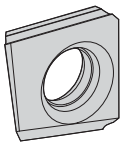


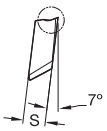
● first choice
○ alternate choice

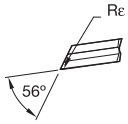
		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

D2FIX-MN

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D2FIX110405RMN	10,50	.413	4,00	.157	0,50	.020	–	●	●	–	–	–
D2FIX150508RMN	14,20	.560	5,00	.197	0,80	.032	–	●	–	–	–	–
D2FIX150505RMN	14,50	.571	5,00	.197	0,50	.020	●	●	●	–	–	–
D2FIX150504RMN	14,60	.575	5,00	.197	0,40	.016	–	●	–	–	–	–
D2FIX150503RMN	14,70	.579	5,00	.197	0,30	.012	–	●	–	–	–	–
left hand												
D2FIX110405LMN	10,50	.413	4,00	.157	0,50	.020	–	●	●	–	–	–
D2FIX150508LMN	14,20	.560	5,00	.197	0,80	.032	–	●	–	–	–	–
D2FIX150505LMN	14,50	.571	5,00	.197	0,50	.020	–	●	–	–	–	–

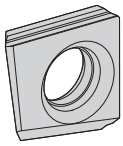


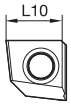


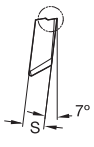


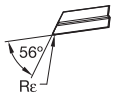
D2FIX-HP

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D2FIX110404RHP	10,00	.394	4,00	.157	0,40	.016	–	–	–	–	–	●
D2FIX110403RHP	10,10	.396	4,00	.157	0,30	.012	–	●	–	–	●	–
D2FIX150508RHP	13,60	.535	5,00	.197	0,80	.032	–	–	–	–	●	●
D2FIX150504RHP	14,00	.551	5,00	.197	0,40	.016	–	–	–	–	●	●
D2FIX150503RHP	14,10	.554	5,00	.197	0,30	.012	–	●	–	–	●	–
left hand												
D2FIX110403LHP	10,10	.396	4,00	.157	0,30	.012	–	–	–	–	●	–
D2FIX150508LHP	13,60	.535	5,00	.197	0,80	.032	–	–	–	–	●	–
D2FIX150503LHP	14,10	.554	5,00	.197	0,30	.012	–	–	–	–	●	–







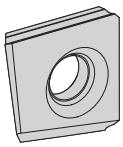


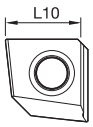
● first choice
○ alternate choice

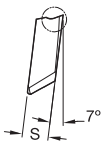
P	●	●	●	●	●	●
M	○	○	●	●	●	●
K	●	●	●	●	●	●
N					●	●
S			○	○	●	●
H						

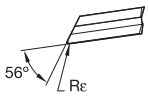
D2FIX-MS

	L10		S		Rε							
catalog number	mm	in	mm	in	mm	in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D2FIX150505RMS	13,90	.549	5,00	.197	0,50	.020	–	–	–	–	●	–
D2FIX150503RMS	14,10	.554	5,00	.197	0,30	.012	–	–	–	–	●	–
left hand												
D2FIX150505LMS	13,90	.549	5,00	.197	0,50	.020	–	–	–	–	●	–
D2FIX150503LMS	14,10	.554	5,00	.197	0,30	.012	–	–	–	–	●	–



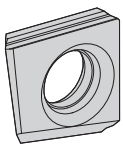


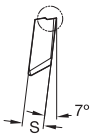


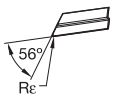


D2FIX-FN

	L10		S		Rε							
catalog number	mm	in	mm	in	mm	in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D2FIX150505RFN	13,90	.549	5,00	.197	0,50	.020	–	●	–	–	●	–







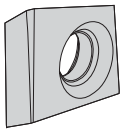
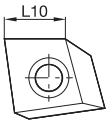
D2FIX-RN

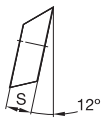
	L10		S		Rε							
catalog number	mm	in	mm	in	mm	in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D2FIX150505RRN	14,50	.571	5,00	.197	0,50	.020	●	–	●	–	–	–
left hand												
D2FIX150505LRN	14,50	.571	5,00	.197	0,50	.020	–	●	–	–	–	–

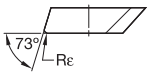
beyond

P	●	●	●	●	●	●
M	○	○	●	●	●	●
K	●	●	●	●	●	●
N					●	●
S			○	○	●	●
H						

● first choice
○ alternate choice

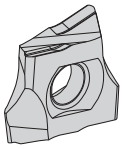



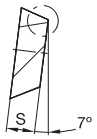


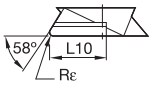


E2FIX-HP

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
E2FIX100505RHP	10,50	.413	5,00	.197	0,50	.020	–	–	–	–	●	–
left hand												
E2FIX100505LHP	10,50	.413	5,00	.197	0,50	.020	–	–	–	–	●	–

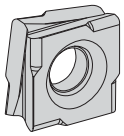


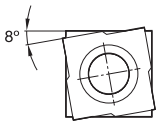


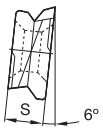


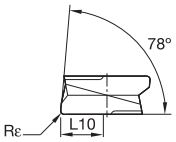
D4FIX-MN

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D4FIX140608RMN	6,70	.264	5,90	.233	0,80	.031	●	●	–	–	●	●
D4FIX140605RMN	7,00	.276	5,90	.233	0,50	.020	●	●	–	–	–	–
D4FIX140604RMN	7,10	.280	5,90	.233	0,40	.016	–	–	●	–	–	●
D4FIX140603RMN	7,20	.283	5,90	.232	0,30	.012	●	●	–	–	–	–
left hand												
D4FIX140608LMN	6,70	.264	5,90	.233	0,80	.031	–	●	–	–	–	–







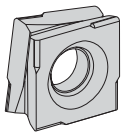


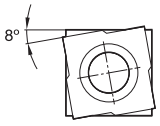
● first choice
○ alternate choice

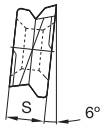
P	●	●	●	●	●	●
M	○	○	●	●	●	●
K	●	●	●	●	●	●
N					●	●
S			○	○	●	●
H						

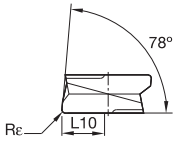
C8FIX-RN

	L10		S		Rε		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
catalog number	mm	in	mm	in	mm	in						
right hand												
C8FIX150612RRN	8,60	.339	6,60	.260	1,20	.047	–	●	–	–	–	–
C8FIX150608RRN	8,90	.350	6,60	.260	0,80	—	●	●	●	–	–	●
C8FIX150605RRN	9,10	.358	6,60	.260	0,50	.020	●	●	●	–	●	●
C8FIX180812RRN	10,60	.417	7,90	.311	1,20	—	–	●	●	–	–	●
C8FIX180808RRN	10,90	.429	7,90	.311	0,80	—	–	●	●	–	–	–
left hand												
C8FIX150612LRN	8,60	.339	6,60	.260	1,20	.047	–	●	–	–	–	–
C8FIX150608LRN	8,90	.350	6,60	.260	0,80	—	–	●	–	–	–	●
C8FIX150605LRN	9,10	.358	6,60	.260	0,50	.020	–	●	●	–	–	●
C8FIX180812LRN	10,60	.417	7,90	.311	1,20	—	–	●	–	–	–	–



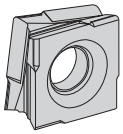


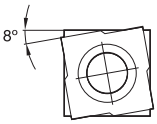


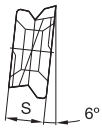


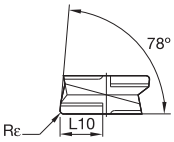
C8FIX-RP

	L10		S		Rε		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
catalog number	mm	in	mm	in	mm	in						
right hand												
C8FIX120508RRP	6,90	.272	5,50	.217	0,80	.031	●	●	–	–	–	–
C8FIX120505RRP	7,10	.280	5,50	.217	0,50	.020	–	●	–	–	–	●
C8FIX120504RRP	7,20	.283	5,50	.217	0,40	.016	●	●	–	–	–	–
C8FIX120503RRP	7,30	.287	5,50	.217	0,30	.012	–	●	●	–	–	–
left hand												
C8FIX120508LRP	6,90	.272	5,50	.217	0,80	.031	–	●	●	–	–	–
C8FIX150612LRP	7,80	.306	6,60	.260	1,20	.047	–	●	–	–	–	–
C8FIX150608LRP	8,80	.345	6,60	.260	0,80	.031	–	–	–	–	–	●









● first choice
○ alternate choice

beyond

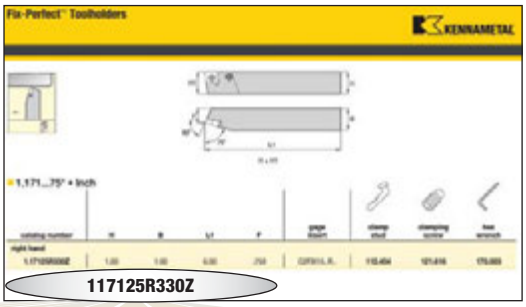
		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

C8FIX-MP

catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
C8FIX120503RMP	7,30	.287	5,50	.217	0,30	.012	–	●	–	–	●	●
C8FIX150603RMP	9,30	.366	6,60	.260	0,30	.012	●	●	●	–	●	●
C8FIX180805RMP	11,10	.437	7,90	.311	0,50	.020	–	●	–	–	–	–
left hand												
C8FIX120503LMP	7,30	.287	5,50	.217	0,30	.012	●	●	–	–	●	–
C8FIX150603LMP	9,30	.366	6,60	.260	0,30	.012	–	●	–	–	–	–

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding image to easily identify which attributes apply.



Metric/Inch

1	1	71	25	R	3	3	0	Z
Turning Program	Number of Cutters	Version	Shaft Dimensions	Direction of Working	Insert Size and Type	Insert Shape	Clamping Screw Support	Inch Toolholder

1 = Fix-Perfect

1 = Inserts with 2 cutting edges

3 = Inserts with 4 cutting edges

7 = Inserts with 8 cutting edges

R = Right

L = Left

0 = Activated from main cutting edge

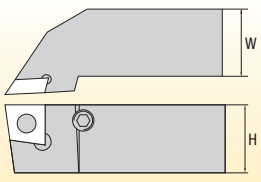
1 = Minor cutting edge

2 = Above

5 = Main cutting edge with sharp-edged full cartridge

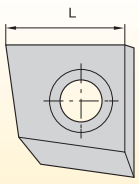
6 = Minor cutting edge with sharp-edged full cartridge

08 = 90° or 93° setting, for machining aluminum
16 = 92° setting angle
20 = 92° setting angle
22 = 92° setting angle
30 = 75° setting angle
71 = 75° setting angle
72 = 45° setting angle
77 = 90° setting angle
80 = 90° or 93° setting angle

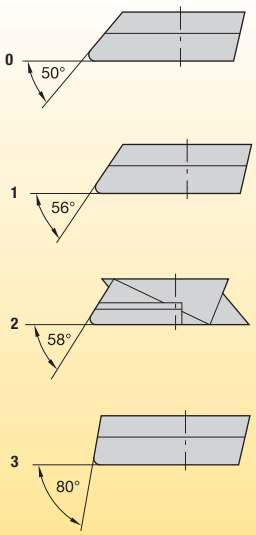


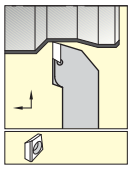
Toolholder

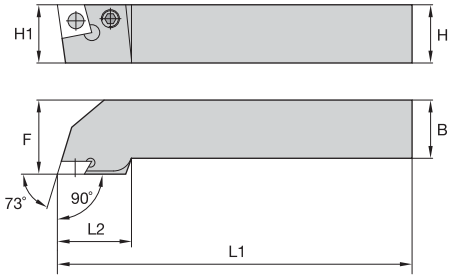
10 = 10 x 10mm
11 = 40 x 40mm
16 = 16 x 16mm
20 = 20 x 20mm
21 = 50 x 50mm
25 = 25 x 25mm
32 = 32 x 25mm
32 x 32mm
40 = 40 x 32mm



	L	cutting edges
0	8mm 20mm 25mm	4 4 4
1	10,5mm 12mm	2 8
3	14,5mm 15mm	2 8
4	17,5mm 18mm	2 8
5	23,5mm 21mm	2 8
7	10,5mm	2 Alu



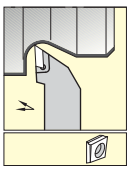


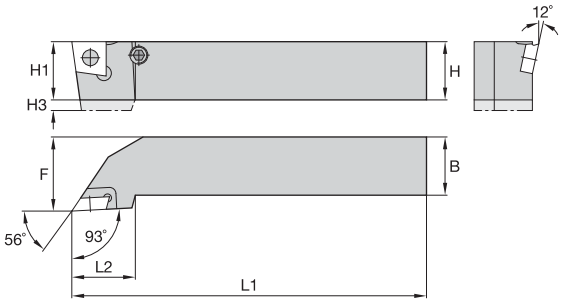


H = H1

1.108...90° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.10825R700	25	25	150,0	32,0	E2FIX10..R..	**410.081**	**121.616**	**170.003**

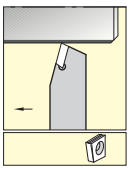


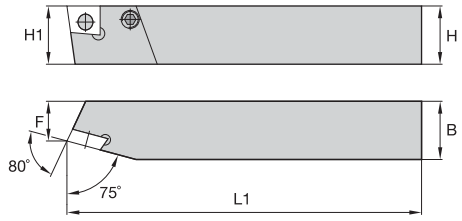


H = H1

1.108...93° • Metric

catalog number	H	H3	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand									
1.10820R310	20	5	20	125,0	25,0	D2FIX15..RHP/FN/MS	**112.403**	**121.612**	**170.003**
1.10825R310	25	–	25	150,0	32,0	D2FIX15..RHP/FN/MS	**112.404**	**121.616**	**170.003**
left hand									
1.10825L310	25	5	25	150,0	32,0	D2FIX15..LHP/FN/MS	**112.404**	**121.616**	**170.003**

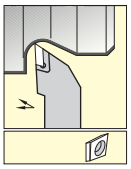


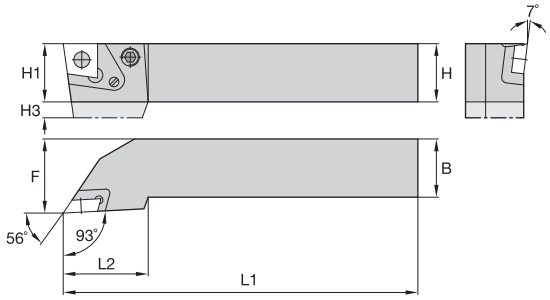


H = H1

1.171...75° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
left hand								
1.17125L330	25	25	150,0	17,0	C2FIX15..L..	**112.404**	**121.616**	**170.003**

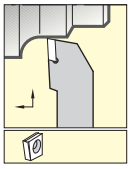


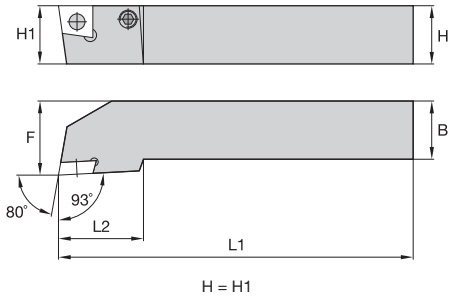


H = H1

1.18 • Metric

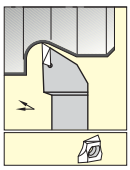
catalog number	H	H3	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench	steel nest assembly
right hand										
1.18016R110	16	4	16	100,0	24,0	D2FIX11..R..	**112.244**	**121.612**	**170.003**	–
1.18020R110	20	–	20	125,0	25,0	D2FIX11..R..	**112.244**	**121.612**	**170.003**	–
1.18020R310	20	5	20	125,0	26,0	D2FIX15..R..	**112.403**	**121.612**	**170.003**	–
1.18025R110	25	–	25	150,0	32,0	D2FIX11..R..	**112.244**	**121.612**	**170.003**	–
1.18025R310	25	–	25	150,0	32,0	D2FIX15..R..	**112.404**	**121.616**	**170.003**	–
1.18025R315	25	7	25	150,0	32,0	D2FIX15..R..	**112.505**	**121.616**	**170.003**	**132.151**
1.18032R315	32	–	25	170,0	32,0	D2FIX15..R..	**112.505**	**121.616**	**170.003**	**132.151**
left hand										
1.18016L110	16	4	16	100,0	24,0	D2FIX11..L..	**112.244**	**121.612**	**170.003**	–
1.18020L110	20	–	20	125,0	25,0	D2FIX11..L..	**112.244**	**121.612**	**170.003**	–
1.18025L310	25	–	25	150,0	32,0	D2FIX15..L..	**112.404**	**121.616**	**170.003**	–
1.18025L315	25	7	25	150,0	32,0	D2FIX15..L..	**112.505**	**121.616**	**170.003**	**132.156**
1.18032L315	32	–	25	170,0	32,0	D2FIX15..L..	**112.505**	**121.616**	**170.003**	**132.156**

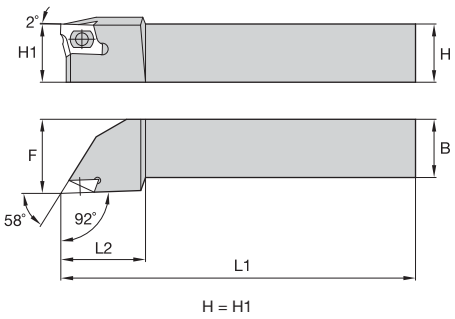




1.180...93° • Metric

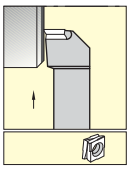
catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
left hand								
1.18025L330	25	25	150,0	32,0	C2FIX15..L..	**112.404**	**121.616**	**170.003**

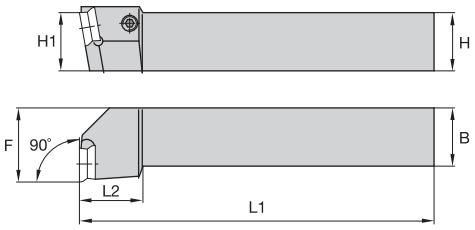




1.380...92° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.38020R021	20	20	125,0	25,0	D4FIX..R..	**114.111**	**121.812**	**170.004**
1.38025R021	25	25	150,0	32,0	D4FIX..R..	**114.114**	**121.816**	**170.004**
left hand								
1.38025L021	25	25	150,0	32,0	D4FIX..L..	**114.114**	**121.816**	**170.004**



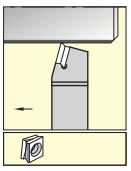


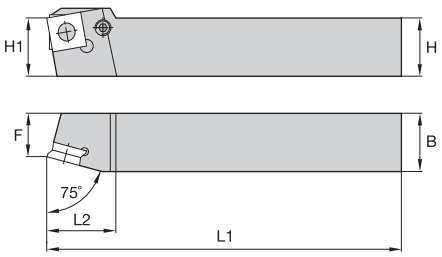
H = H1

1.777...90° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77725R301	25	25	150,0	32,0	C8FIX15..L..	**118.314**	**121.816**	**170.004**

NOTE: Right-hand tool requires left-hand insert.

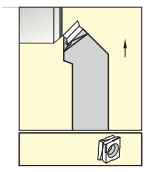


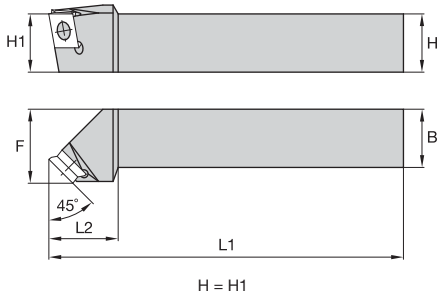


H = H1

1.771...75° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77120R100	20	20	125,0	17,0	C8FIX12..R..	**118.204**	**121.612**	**170.003**
1.77125R300	25	25	150,0	21,0	C8FIX115..R..	**410.084**	**121.816**	**170.004**
1.77132R400	32	32	170,0	27,0	C8FIX18..R..	**410.091**	**–**	**–**
left hand								
1.77120L100	20	20	125,0	17,0	C8FIX12..L..	**118.204**	**121.612**	**170.003**



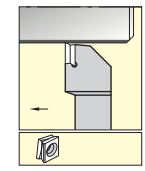


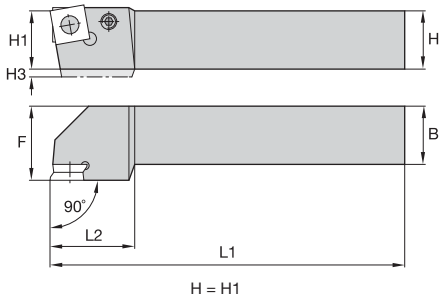
H = H1

1.772...45° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77225R301	25	25	150,0	32,0	C8FIX15..L..	**118.314**	**121.816**	**170.004**

NOTE: C8FIX15..L.. is usable for plunging only.
For both plunging and turning, C4FIX15..L.. has to be used.

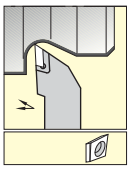


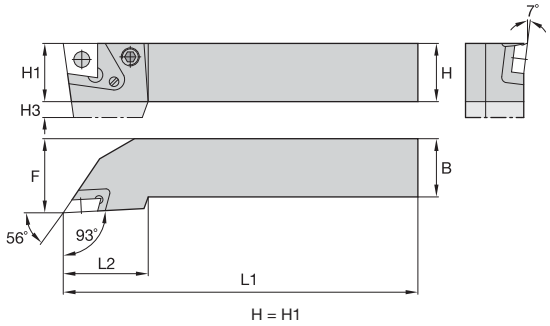


H = H1

1.780...90° • Metric

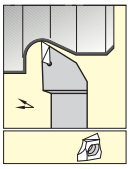
catalog number	H	H3	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand									
1.78012R103	12	–	12	80,0	14,0	C8FIX12..R..	**–**	**–**	**170.003**
1.78016R100	16	4	16	100,0	25,0	C8FIX12..R..	**118.204**	**121.616**	**170.003**
1.78020R100	20	–	20	125,0	25,0	C8FIX12..R..	**118.204**	**121.616**	**170.003**
1.78025R100	25	–	25	150,0	32,0	1.81201R...	**118.204**	**121.616**	**170.003**
1.78025R300	25	–	25	150,0	32,0	C8FIX15..R..	**410.084**	**121.816**	**170.004**
1.78032R400	32	–	32	170,0	40,0	C8FIX18..R..	**410.091**	**121.825**	**170.004**
left hand									
1.78025L100	25	–	25	150,0	32,0	1.81202L...	**118.204**	**121.616**	**170.003**
1.78025L300	25	–	25	150,0	32,0	C8FIX15..L..	**410.084**	**121.816**	**170.004**

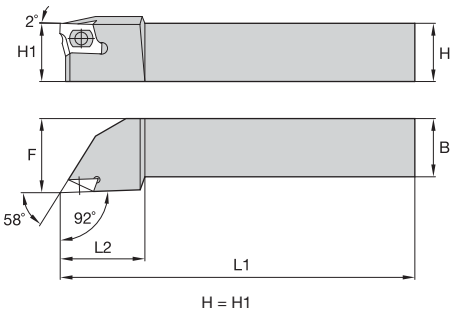




1.18 • Inch

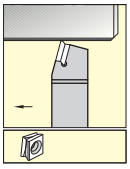
catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.18025R310Z	1.00	1.00	6.00	1.250	D2FIX15..R..	**112.404**	**121.616**	**170.003**

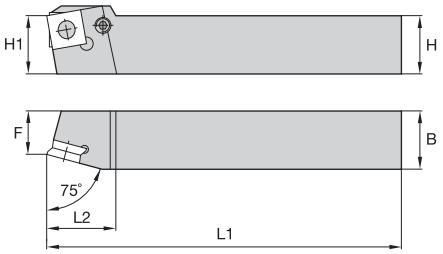




1.380...92° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.38025R021Z	1.00	1.00	6.00	1.250	D4FIX..R..	**114.114**	**121.816**	**170.004**

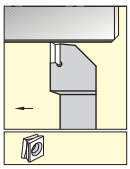


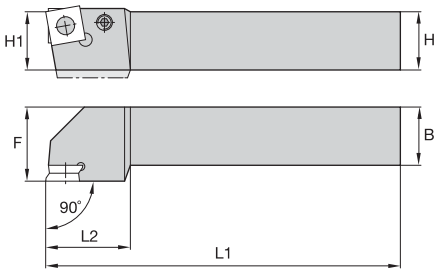


H = H1

1.771...75° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77125R300Z	1.00	1.00	6.00	.875	C8FIX15..R..	**410.084**	**121.816**	**170.004**

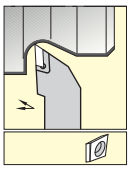


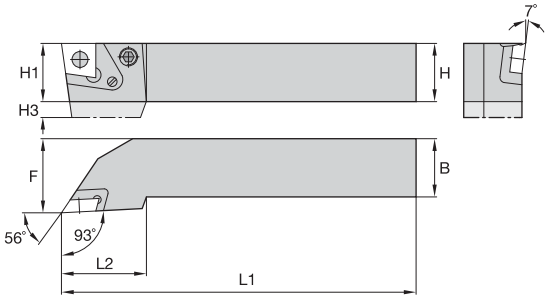


H = H1

1.78...90° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.78025R300Z	1.00	1.00	6.00	1.250	C8FIX15..R..	**410.084**	**121.816**	**170.004**
left hand								
1.78025L300Z	1.00	1.00	6.00	1.250	C8FIX15..L..	**410.084**	**121.816**	**170.004**
1.78032L400Z	1.25	1.25	7.00	1.500	C8FIX18..L..	**410.091**	**121.825**	**170.004**

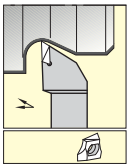


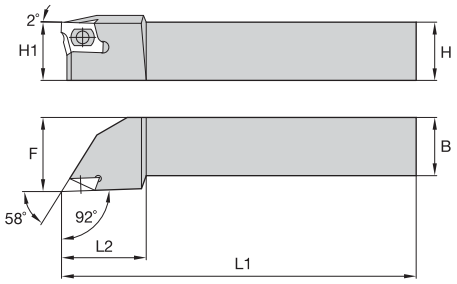


H = H1

1.18 • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.18025R310Z	1.00	1.00	6.00	1.250	D2FIX15..R..	**112.404**	**121.616**	**170.003**

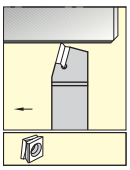


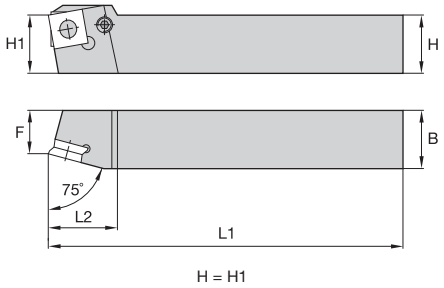


H = H1

1.380...92° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.38025R021Z	1.00	1.00	6.00	1.250	D4FIX..R..	**114.114**	**121.816**	**170.004**

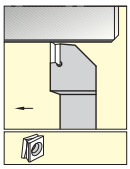


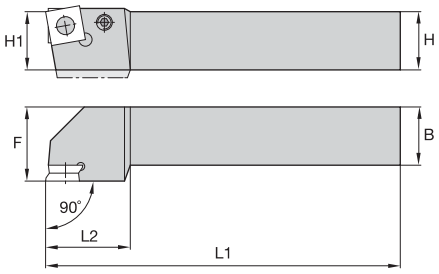


H = H1

1.771...75° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77125R300Z	1.00	1.00	6.00	.875	C8FIX15..R..	**410.084**	**121.816**	**170.004**





H = H1

1.78...90° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.78025R300Z	1.00	1.00	6.00	1.250	C8FIX15..R..	**410.084**	**121.816**	**170.004**
left hand								
1.78025L300Z	1.00	1.00	6.00	1.250	C8FIX15..L..	**410.084**	**121.816**	**170.004**
1.78032L400Z	1.25	1.25	7.00	1.500	C8FIX18..L..	**410.091**	**121.825**	**170.004**

Beyond™ Top Notch™ Profiling

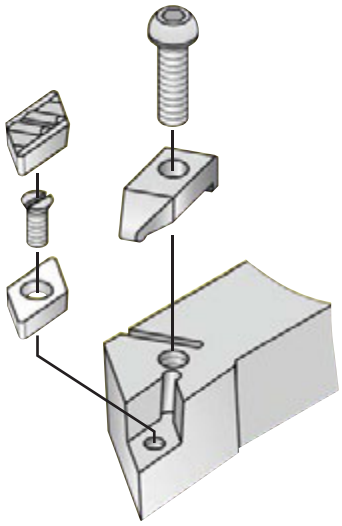
The Top Notch system is the proven solution for high productivity. The Top Notch system provides consistent tool performance, accurate indexing, and superior clamping to provide excellent surface finishing and superior tool life.

Features and Benefits

Beyond™ Grades

Higher Productivity and Profitability

- Lower cutting forces increase speeds and reduce cycle time.
- Extended tool life.



Reliability

- Predictable tool life/uniform wear.
- Resists chip flow damage.
- Consistent surface finish.

Versatility

- Products can be applied across a wide range of applications.
- Use in low- to high-speed applications.
- Complete portfolio of products.
- For finish to rough turning of steel, cast iron, stainless steel, and high-temp alloys.

FP Geometry

- Higher metal removal rate.
- Versatility.
- Long tool life.
- Optimum chip control over wide range of cutting conditions and workpiece materials.
- Improved surface finish.
- Better indexability.
- Less adjustment during insert change.

UF Geometry

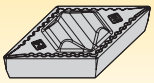
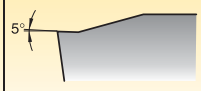
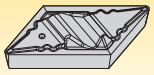
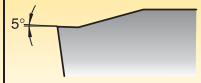
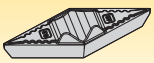
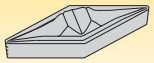
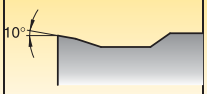
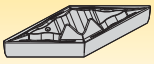
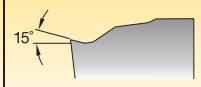
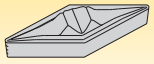
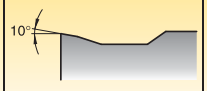
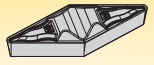
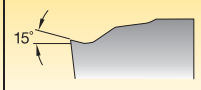
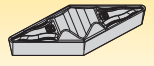
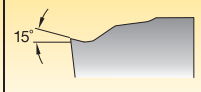
- Reduces cutting forces.
- Long tool life.
- Optimum chip control over wide range of cutting conditions.
- Chip control in finishing applications.

HP Geometry

- Reduces cutting forces.
- Long tool life.
- Interference is avoided to improve surface finish of the workpiece.
- Better indexability.
- Good control over job dimensions.
- Reduces workpiece material sticking.

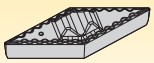
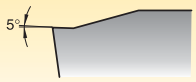
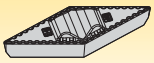
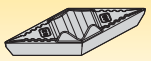
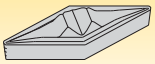
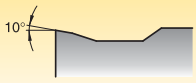
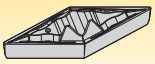
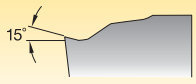
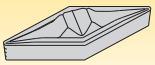
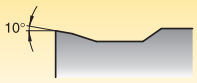
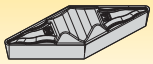
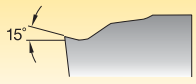
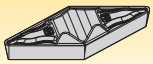
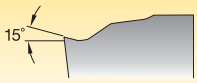
Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
				.0015 (0,04) .0025 (0,063) .004 (0,01) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .200 (5,0)
				.004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .160 (4,0) .250 (6,3) .500 (10,0)
fine finishing	DCGR-UF			.002–.010 (0,1–0,3) / .005–.050 (0,1–1,3)
	KCGR-UF			.002–.010 (0,1–0,3) / .005–.050 (0,1–1,3)
finishing	DCGR			.002–.010 (0,1–0,3) / .005–.050 (0,1–1,3)
	KCGR			.004–.014 (0,1–0,4) / .010–.080 (0,3–2,0)
	DCGR-FP			.0025–.015 (0,063–0,25) / .006–.060 (0,16–1,6)
	DCGR-HP			.004–.014 (0,1–0,4) / .010–.080 (0,3–2,0)
	KCGR-FP			.0025–.015 (0,063–0,25) / .006–.060 (0,16–1,6)
	KCGR-HP			.0025–.015 (0,063–0,25) / .006–.060 (0,16–1,6)

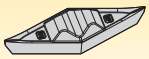
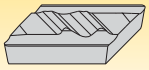
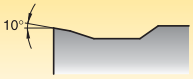
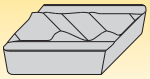
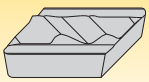
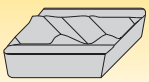
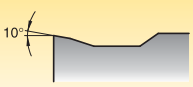
Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm)	depth of cut — in (mm)
fine finishing	VBMR-UF			.002–.010 (0,1–0,3)	.005–.050 (0,1–1,3)
	VCMR-UF			.002–.010 (0,1–0,3)	.005–.050 (0,1–1,3)
	VPGR-UF			.002–.010 (0,1–0,3)	.005–.050 (0,1–1,3)
finishing	VBMR			.004–.014 (0,1–0,4)	.010–.080 (0,3–2,0)
	VBMR-FP			.0025–.015 (0,063–0,25)	.006–.060 (0,16–1,6)
	VCGR			.004–.014 (0,1–0,4)	.010–.080 (0,3–2,0)
	VCMR-FP			.0025–.015 (0,063–0,25)	.006–.060 (0,16–1,6)
	VPGR-FP			.0025–.015 (0,063–0,25)	.006–.060 (0,16–1,6)

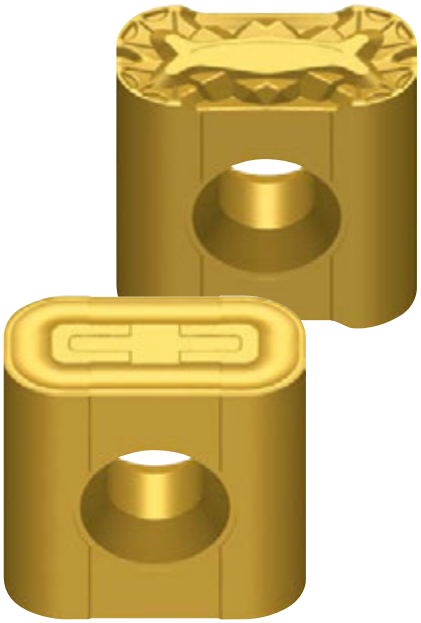
Select the geometry — based on feed rate and depth of cut

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application	insert geometry	profile	feed rate — in (mm) / depth of cut — in (mm)
finishing	**VPGR-HP**			.0015 (0,04) .0025 (0,063) .004 (0,01) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .200 (5,0) .004 (0,1) .006 (0,16) .010 (0,25) .016 (0,4) .025 (0,63) .040 (1,0) .060 (1,6) .100 (2,5) .160 (4,0) .250 (6,3) .500 (10,0) .007–.015 (0,2–0,4) .025–.090 (0,6–2,3)
finishing	**KNGX-15**			.006–.016 (0,2–0,4) .030–.110 (0,8–2,8)
finishing	**KNGX-20**			.008–.018 (0,2–0,5) .040–.120 (1,0–3,0)
	KNGX-25			.010–.022 (0,3–0,6) .045–.140 (1,1–3,6)
finishing	**KNGX-32**			.012–.026 (0,3–0,7) .060–.200 (1,5–5,1)

Kennametal Tools for **Railways** and **Wheel Machining**

Kennametal offers a complete line of tooling for wheel and axle maintenance in railroad shops. All tools incorporate the latest technology for maximum metal removal and higher productivity. They are proven performers in actual use over extended periods of time, under a wide range of operating conditions. Standard off-the-shelf inserts and fewer pieces of hardware reduce inventory and operating costs. Included in this range are tools for reconditioning mounted wheel sets, wheel boring, wheel truing, axle turning, and journal burnishing.



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KENNAMETAL®

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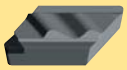
Step 1 • Select the insert geometry

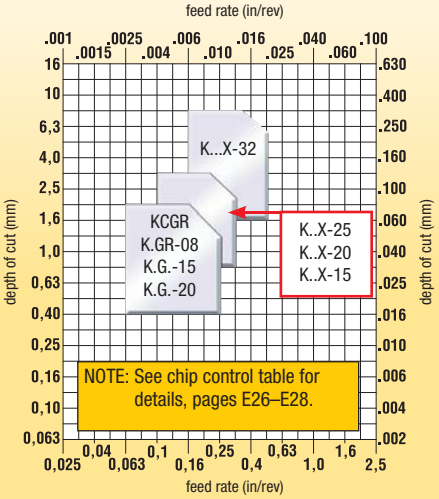
Negative Inserts

-K...X-32
Roughing

-K...X-25–K...X-15,
Medium Machining



-K. GR-08, K.G.-15,
K.G.-20
Finishing



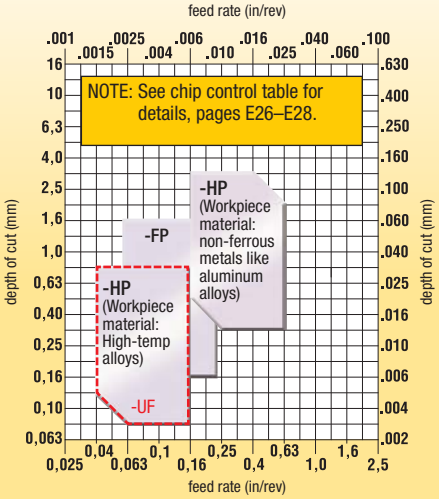
Positive Inserts

-VCMR
Medium Machining

-.CGR, VBMR
Finishing

-VCGN
Finishing

-KCGR
Finishing



Chip Control Range
-UF: feed 0,08–0,3 mm/rev; DOC 0,1–1,3mm
-FP: feed 0,1–0,3 mm/rev; DOC 0,1–1,3mm
-HP: feed 0,2–0,4 mm/rev; DOC 0,6–2,3mm

Step 2 • Select the grade

		Steel			Stainless Steel		
cutting condition		**Finishing**	**Medium Machining**	**Roughing**	**Finishing**	**Medium Machining**	**Roughing**
heavily interrupted cut		**KCP25**	**KCM25**	**KCM25**	**KCM25**	**KCM25**	**KCM25**
lightly interrupted cut		**KCP10**	**KCP25**	**KCP25**	**KC5010/KCU10**	**KC5025/KCU25**	**KC5025/KCU25**
varying depth of cut, casting, or forging skin		**KT315**	**KCP25**	**KCP25**	**KT315**	**KCM25**	**KCM25**
smooth cut, pre-turned surface		**KT315**	**KCP05/KCP10**	**KCP10**	**KT315**	**KC5010/KCU10**	**KCM25**

		Cast Iron			Non-Ferrous		
cutting condition		**Finishing**	**Medium Machining**	**Roughing**	**Finishing**	**Medium Machining**	**Roughing**
heavily interrupted cut		**KCP10**	**KCP10**	**KCP10**	**KC5010/KCU10**	**KC5010/KCU10**	**KC5010/313/ KCU10**
lightly interrupted cut		**KCP05**	**KCP05**	**KCP05**	**KC5410/KD1425**	**KC5010/KCU10**	**KC5010**
varying depth of cut, casting, or forging skin		**KCK05**	**KCK05**	**KCK05**	**KD1425**	**KC5410**	**KC5410**
smooth cut, pre-turned surface		**KC5010/KCU10**	**KC5010/KCU10**	**KC5010/KCU10**	**KD1425**	**KC5410**	**KC5410**

		High-Temperature Alloys		
cutting condition		**Finishing**	**Medium Machining**	**Roughing**
heavily interrupted cut		**KC5025/KUC25**	**K68**	**K68**
lightly interrupted cut		**KC5010**	**KC5010**	**KCM25**
varying depth of cut, casting, or forging skin		**KC5010**	**KC5010**	**KC5010**
smooth cut, pre-turned surface		**KC5010/KCU10/ K313**	**KC5010/KCU10**	**KC5010**

Step 3 • Select the cutting speed

Steel — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	50 (170)	100 (330)	150 (490)	200 (655)	250 (820)	300 (980)	350 (1150)	400 (1300)	m/min	SFM
P	KT315					◁▷				260	850
	KCP05/KCP10					◁▷				340	800
	KCP25				◁▷					180	600
	KCM25				◁▷					165	550

Stainless Steel — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	50 (170)	100 (330)	150 (490)	200 (655)	250 (820)	300 (980)	350 (1150)	400 (1300)	m/min	SFM
M	KT315			◁▷						230	750
	KC5010/KCU10				◁▷					180	600
	KC5025/KCU25			◁▷						120	400
	KCM25				◁▷					150	500

Cast Iron — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	150 (490)	200 (655)	250 (820)	300 (980)	350 (1150)	400 (1300)	500 (1600)	750 (2400)	m/min	SFM
K	KB1345								◁▷	760	2520
	KT315				◁▷					275	900
	KC5010/KCU10			◁▷						245	800
	KCK20				◁▷					245	800
	KCP25			◁▷						230	750

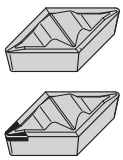
Non-Ferrous — speed — m/min (SFM) — starting conditions ◁▷

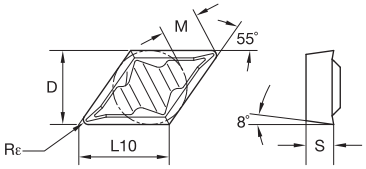
material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	1250 (4000)	1500 (4800)	1750 (5600)	2000 (6400)	m/min	SFM
N	K01425			◁▷						765	2500
	KC5410		◁▷							550	1800
	KC5010/KCU10		◁▷							460	1500
	K68/K313	◁▷								150	500

High-Temperature Alloys — speed — m/min (SFM) — starting conditions ◁▷

material group	grade	15 (50)	40 (120)	55 (180)	80 (250)	100 (330)	170 (550)	200 (655)	120 (400)	m/min	SFM
S	KC5010/KCU10				◁▷					60	200
	KC5025/KCU25			◁▷						50	170
	KCM25				◁▷					70	230
	K68/K313		◁▷							30	100

◁▷ Represents the recommended starting conditions. Optimize for your specific application.



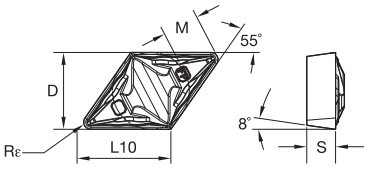


● first choice
○ alternate choice

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

DCGR • DPGR

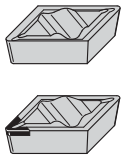
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
DCGR150404	DPGR431	12,70	1/2	15,50	0.610	4,76	3/16	6,94	0.273	0,4	1/64	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
DCGR150408	DPGR432	12,70	1/2	15,50	0.610	4,76	3/16	6,48	0.255	0,8	1/32	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	●
DCGR150412	DPGR433	12,70	1/2	15,50	0.610	4,76	3/16	6,01	0.237	1,2	3/64	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–

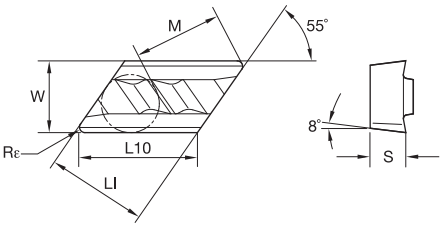


DCGR-FP • DPGR-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
DCGR150404FP	DPGR431FP	12,70	1/2	15,50	0.610	4,76	3/16	6,94	0.273	0,4	1/64	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	–
DCGR150408FP	DPGR432FP	12,70	1/2	15,50	0.610	4,76	3/16	6,48	0.255	0,8	1/32	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–

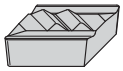
Application Specific

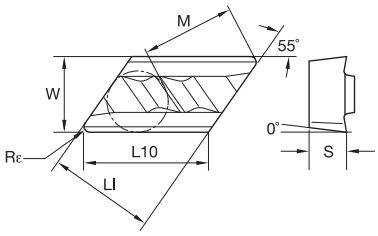




● first choice
○ alternate choice

| | | |





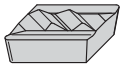
● first choice
○ alternate choice

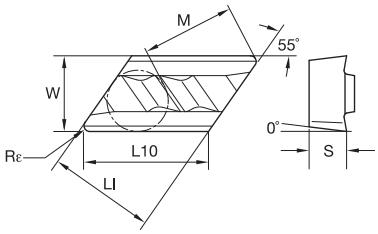
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●														
M		●	●	●					●	●	●	●	●	●	●		●														
K		●	●	●	○	○	○	●				●	●	●	●		●														
N		●	●	●								●	●	●	●	●															
S		●	●	●					●	●	●	●	●	●	●																
H																															

KNGX • NPR/L

ISO catalog number	ANSI catalog number	LI mm	LI in	L10 mm	L10 in	W mm	W in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
right hand																														
KNGX150404R20	**NPR131F**	12,68	.499	15,44	.608	9,47	.373	4,76	3/16	13,46	.530	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
KNGX150408R20	**NPR132F**	12,68	.499	15,44	.608	9,47	.373	4,76	3/16	12,99	.512	0,8	1/32	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
KNGX150401R15	**NPR1305**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,76	.542	0,1	.005	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNGX150402R15	**NPR1308**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,67	.538	0,2	.008	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNGX220404R25	**NPR331N**	18,62	.733	22,73	.895	9,53	.375	4,76	3/16	19,91	.784	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
KNGX220408R32	**NPR332**	18,62	.733	22,73	.895	9,53	.375	4,76	3/16	19,47	.767	0,8	1/32	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
left hand																														
KNGX150408L20	**NPL132F**	12,68	.499	15,44	.608	9,47	.373	4,76	3/16	12,99	.512	0,8	1/32	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
KNGX150404L20	**NPL131F**	12,68	.499	15,44	.608	9,47	.373	4,76	3/16	13,46	.530	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
KNGX220408L20	**NPL332F**	18,62	.733	22,73	.895	9,53	.375	4,76	3/16	19,47	.767	0,8	1/32	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

Application Specific



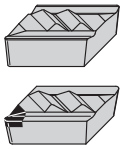


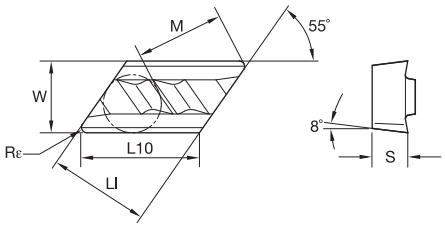
● first choice
○ alternate choice

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

KNUX • NPR/L

ISO catalog number	ANSI catalog number	LI mm	LI in	L10 mm	L10 in	W mm	W in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
right hand																														
KNUX150405R20	**NPR13M05F**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,32	.525	0,5	.020	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
KNUX150405R25	**NPR13M05N**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,32	.525	0,5	.020	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
KNUX150410R25	**NPR13M10N**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	12,74	.502	1,0	.039	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNUX160405R2	**KNUX160405R2**	16,15	.636	17,51	.689	9,52	.375	4,76	3/16	–	–	0,5	.020	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
KNUX160410R1	**KNUX160410R1**	16,15	.636	17,51	.689	9,52	.375	4,76	3/16	–	–	1,0	.039	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
KNUX160410R2	**KNUX160410R2**	16,15	.636	17,51	.689	9,52	.375	4,76	3/16	–	–	1,0	.039	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
KNUX160405R1	**KNUX160405R1**	16,15	.636	17,51	.689	9,52	.375	4,76	3/16	–	–	0,5	.020	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–
left hand																														
KNUX150410L25	**NPL13M10N**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	12,74	.502	1,0	.039	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNUX150405L25	**NPL13M05N**	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,32	.525	0,5	.020	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNUX160405L2	**KNUX160405L2**	16,15	.636	17,51	.689	9,52	.375	4,76	3/16	–	–	0,5	.020	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
KNUX160405L1	**KNUX160405L1**	16,15	.636	17,51	.689	9,52	.375	4,76	3/16	–	–	0,5	.020	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–



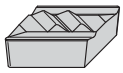


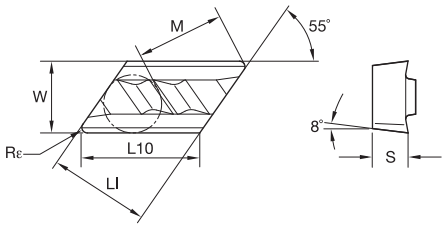
KCGX • NPR/L

ISO catalog number	ANSI catalog number	LI mm	LI in	L10 mm	L10 in	W mm	W in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
right hand																														
KCGX110301R15	**NPR505**	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,43	.371	0,1	.005	●	●	–	–	–	–	–	–	–	–	●	–	●	●	–	–	●
KCGX110302R15	**NPR508**	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,34	.368	0,2	.008	–	●	–	–	–	–	–	–	–	–	●	●	●	–	–	●	●
KCGX110304R15	**NPR51**	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,11	.359	0,4	1/64	●	●	–	–	–	–	–	–	–	–	●	●	●	●	●	●	●
KCGX110308R15	**NPR52**	9,57	.377	–	–	6,33	.249	3,18	1/8	8,69	.342	0,8	1/32	●	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–
left hand																														
KCGX110301L15	**NPL505**	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,43	.371	0,1	.005	●	●	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●
KCGX110302L15	**NPL508**	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,34	.368	0,2	.008	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●
KCGX110304L15	**NPL51**	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,11	.359	0,4	1/64	●	●	–	–	–	–	–	–	–	–	●	●	●	●	–	–	●
KCGX110308L15	**NPL52**	9,57	.377	–	–	6,33	.249	3,18	1/8	8,69	.342	0,8	1/32	●	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–

P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●														
M		●	●	●					●	●	●	●	●	●	●		●														
K		●	●	●	○	○	○	●				●	●	●	●		●														
N		●	●	●												●	●														
S		●	●	●					●	●	●	●	●	●	●																
H																															

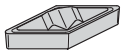
● first choice
○ alternate choice

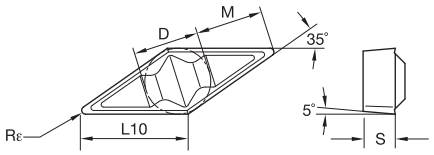




KCUX • NPR/L

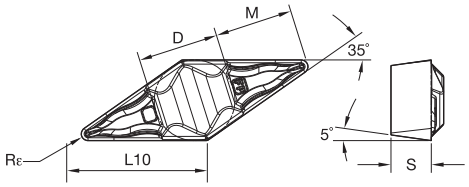
ISO catalog number	ANSI catalog number	LI mm	LI in	L10 mm	L10 in	W mm	W in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
right hand																														
KCUX110302R15	NPR5M02	9,50	.374	11,60	.457	6,33	.249	3,18	1/8	9,40	.370	0,2	.008	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
KCUX110305R15	NPR5M05	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,06	.357	0,5	.020	●	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–	–
KNUX150405R20	NPR13M05F	12,70	.500	15,44	.608	9,53	.375	4,76	3/16	13,32	.525	0,5	.020	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
left hand																														
KCUX110302L15	NPL5M02	9,46	.373	11,60	.457	6,33	.249	3,18	1/8	9,40	.370	0,2	.008	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
KCUX110305L15	NPL5M05	9,53	.375	11,60	.457	6,35	.250	3,18	1/8	9,06	.357	0,5	.020	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–





VBMR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VBMR110304	VBMR221	6,35	1/4	11,07	0.436	3,18	1/8	6,46	0.254	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–

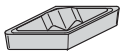


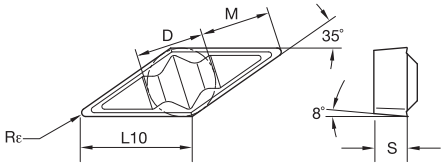
VBMR-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VBMR110302FP	VBMR2205FP	6,35	1/4	11,04	0.435	3,18	1/8	6,91	0.272	0,2	.008	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
VBMR110304FP	VBMR221FP	6,35	1/4	11,07	0.436	3,18	1/8	6,46	0.254	0,4	1/64	–	–	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–
VBMR110308FP	VBMR222FP	6,35	1/4	11,07	0.436	3,18	1/8	5,54	0.218	0,8	1/32	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–

● first choice
○ alternate choice

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

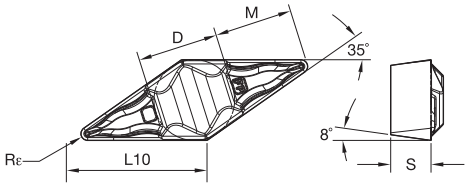




VCMR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in
VCMR160404	VCMR331	9,53	3/8	16,61	0.654	4,76	3/16	10,15	0.400	0,4	1/64
VCMR160408	VCMR332	9,53	3/8	16,61	0.654	4,76	3/16	9,23	0.363	0,8	1/32

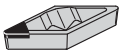
		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCMR160404	VCMR331	–	–	–	–	–	–	–	●	–	–	–	●	●	●	–	●	–
VCMR160408	VCMR332	–	–	–	–	–	–	–	●	–	–	●	●	●	●	–	●	–

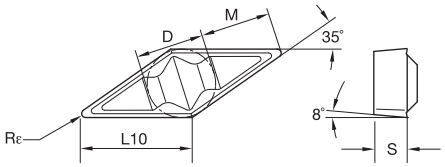


VCMR-FP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in
VCMR160404FP	VCMR331FP	9,52	3/8	16,61	0.654	4,76	3/16	10,15	0.400	0,4	1/64
VCMR160408FP	VCMR332FP	9,52	3/8	16,61	0.654	4,76	3/16	9,23	0.363	0,8	1/32

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCMR160404FP	VCMR331FP	–	–	–	●	–	●	–	–	–	●	●	●	–	–	–	–	–
VCMR160408FP	VCMR332FP	–	–	–	●	–	●	●	–	–	●	–	–	–	–	–	–	–



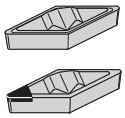


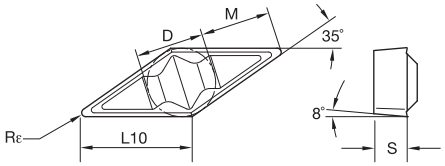
● first choice
○ alternate choice

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

VPGN

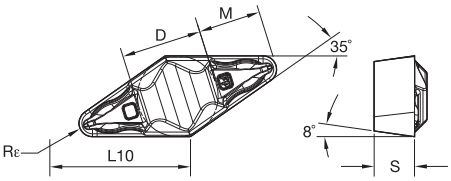
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGN160404	**VPGN331**	9,53	3/8	16,61	0.654	4,76	3/16	10,15	0.400	0,4	1/64	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
VCGN160408	**VPGN332**	9,53	3/8	16,61	0.654	4,76	3/16	9,23	0.363	0,8	1/32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●





VCGR • VPGR

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGR160402	**VPGR3305**	9,53	3/8	16,61	0.654	4,76	3/16	10,60	0.417	0,2	.008	●	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
VCGR160404	**VPGR331**	9,53	3/8	16,61	0.654	4,76	3/16	10,15	0.400	0,4	1/64	●	●	–	–	–	●	–	–	–	–	●	●	●	●	●	●	●
VCGR160408	**VPGR332**	9,52	3/8	16,61	0.654	4,76	3/16	9,23	0.363	0,8	1/32	●	●	–	–	●	–	–	–	–	–	●	●	●	●	●	●	●
VCGR160412	**VPGR333**	9,53	3/8	16,61	0.654	4,76	3/16	8,31	0.327	1,2	3/64	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	●
VCGR160416	**VPGR334**	9,53	3/8	16,61	0.654	4,76	3/16	7,38	0.291	1,6	1/16	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–

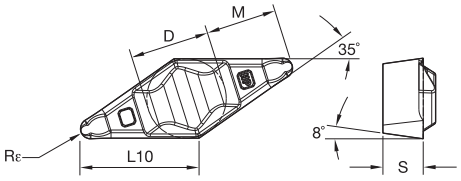


● first choice
○ alternate choice

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

VCGR-FP • VPGR-FP

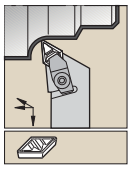
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGR160402FP	VPGR3305FP	9,52	3/8	16,61	0.654	4,76	3/16	10,60	0.417	0,2	.008	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
VCGR160404FP	VPGR331FP	9,52	3/8	16,61	0.654	4,76	3/16	10,15	0.400	0,4	1/64	–	–	–	●	–	●	–	–	–	●	●	–	–	–	–	–	–
VCGR160408FP	VPGR332FP	9,52	3/8	16,61	0.654	4,76	3/16	9,23	0.363	0,8	1/32	–	–	–	●	–	●	●	–	–	●	–	–	–	–	–	–	–
VCGR160412FP	VPGR333FP	9,52	3/8	16,61	0.654	4,76	3/16	8,31	0.327	1,2	3/64	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–
VCGR160416FP	VPGR334FP	9,52	3/8	16,61	0.654	4,76	3/16	7,38	0.291	1,6	1/16	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–

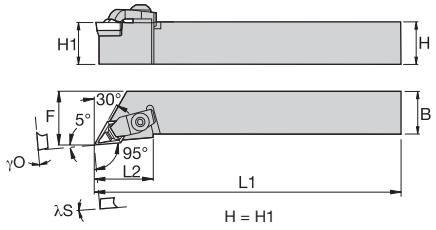


VCGR-HP • VPGR-HP

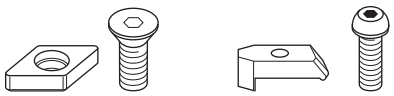
ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	S mm	S in	M mm	M in	Rε mm	Rε in	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGR160404HP	VPGR331HP	9,52	3/8	16,61	0.654	4,76	3/16	—	—	0,4	1/64	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Application Specific

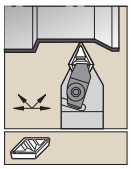


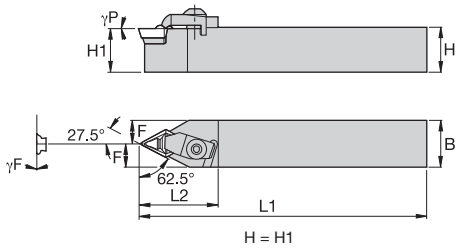


NDLP -5°

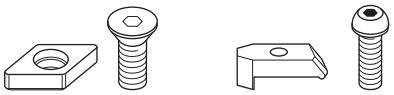


catalog number	H	B	F	L1	LH	λS°	γO°	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	hex (inch)
right hand														
NDLPR164D	1.000	1.000	1.250	6.00	1.38	0.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM116**	**S532**	5/32
left hand														
NDLPL164D	1.000	1.000	1.250	6.00	1.38	0.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM117**	**S532**	5/32

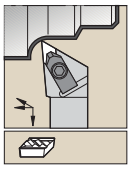


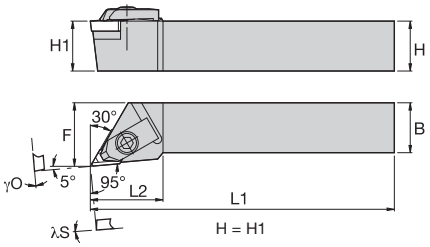


NDPP 27.5°

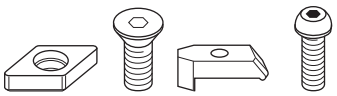


catalog number	H	B	F	L1	LH	γF°	γP°	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	hex (inch)
NDPPN164D	1.000	1.000	0.500	6.00	1.59	0.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM116**	**S532**	5/32

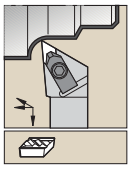


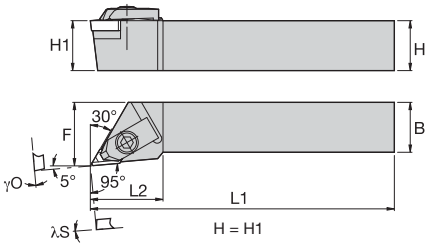


NKLC -5°

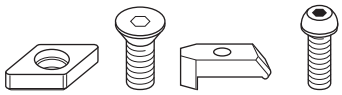


catalog number	H	B	F	L1	LH	λS°	γO°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
NKLCR0805V	0.500	0.500	0.750	3.50	0.88	0.0	0.0	NP..51R	**SM285**	**S959**	**CM79**	**S524**	1/8
NKLCR1005B	0.625	0.625	0.750	4.50	0.88	0.0	0.0	NP..51R	**SM285**	**S959**	**CM79**	**S524**	1/8
NKLCR1205A	0.750	0.750	1.000	4.00	0.88	0.0	0.0	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8
NKLCR1205B	0.750	0.750	1.000	4.50	0.88	0.0	0.0	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8
NKLCR1605C	1.000	1.000	1.250	5.00	0.88	0.0	0.0	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8
left hand													
NKLCL0805V	0.500	0.500	0.750	3.50	0.88	0.0	0.0	NP..51L	**SM286**	**S959**	**CM71**	**S524**	1/8
NKLCL1005B	0.625	0.625	0.750	4.50	0.88	0.0	0.0	NP..51L	**SM286**	**S959**	**CM71**	**S524**	1/8
NKLCL1205A	0.750	0.750	1.000	4.00	0.88	0.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
NKLCL1205B	0.750	0.750	1.000	4.50	0.88	0.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
NKLCL1605C	1.000	1.000	1.250	5.00	0.88	0.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8

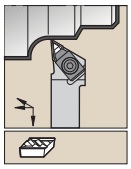


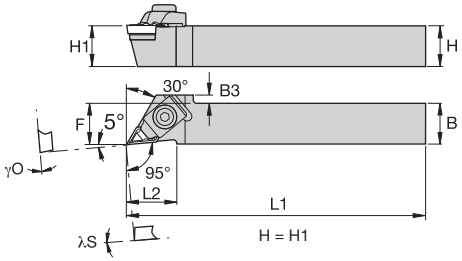


NKLN -5°

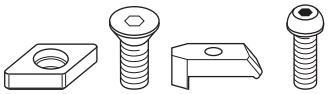


catalog number	H	B	F	L1	LH	λS°	γO°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
NKLNR121B	0.750	0.750	1.000	4.50	1.22	-2.0	-5.0	NPR132F	**SM272**	**SL344**	**CM66**	**S625**	5/32
NKLNR161C	1.000	1.000	1.250	5.00	1.25	-2.0	-5.0	NPR132F	**SM272**	**SL344**	**CM66**	**S625**	5/32
left hand													
NKLNL121B	0.750	0.750	1.000	4.50	1.22	-2.0	-5.0	NPL132F	**SM271**	**SL344**	**CM66**	**S625**	5/32
NKLNL161C	1.000	1.000	1.250	5.00	1.25	-2.0	-5.0	NPL132F	**SM271**	**SL344**	**CM66**	**S625**	5/32

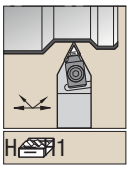


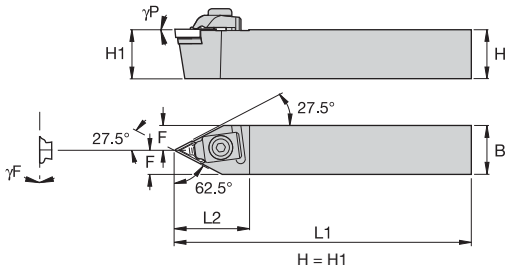


NKLC-F -5°

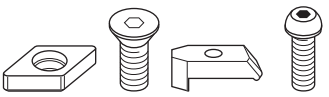


catalog number	H	B	F	L1	LH	B3	λS°	γO°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand														
NKLCRF0805D	0.500	0.500	0.500	6.00	0.75	0.15	0.0	0.0	NP..51R	**SM285**	**S959**	**CM180**	**S524**	1/8
NKLCRF1005B	0.625	0.625	0.625	4.50	0.75	—	0.0	0.0	NP..51R	**SM285**	**S959**	**CM180**	**S524**	1/8
left hand														
NKLCLF0805D	0.500	0.500	0.500	6.00	0.75	0.15	0.0	0.0	NP..51L	**SM286**	**S959**	**CM181**	**S524**	1/8

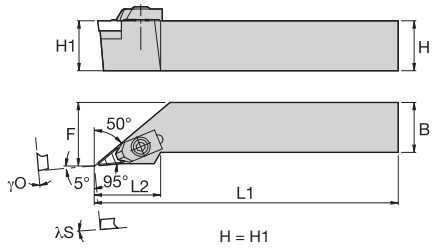




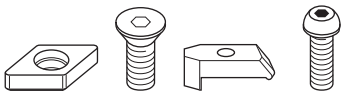
NKPC 27.5°



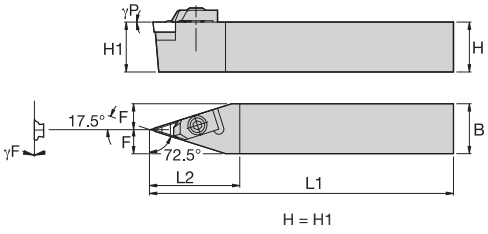
catalog number	H	B	F	L1	LH	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
NKPCN1205B	0.750	0.750	0.375	4.50	1.13	0.0	0.0	NP..51R	SM285	S959	CM68	S524	1/8



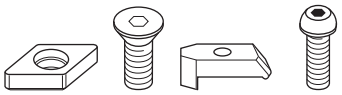
NVLC -5°



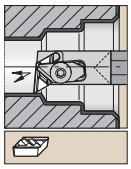
catalog number	H	B	F	L1	LH	γO°	λS°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
NVLCR123B	0.750	0.750	1.000	4.50	1.44	0.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32
NVLCR163D	1.000	1.000	1.250	6.00	1.44	0.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32
NVLCR203D	1.250	1.250	1.500	6.00	1.44	0.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32
NVLCR243D	1.500	1.500	2.000	6.00	1.62	0.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32
left hand													
NVLCL123B	0.750	0.750	1.000	4.50	1.44	0.0	0.0	VP..332	**SM412**	**S959**	**CM114**	**S412**	5/32
NVLCL163D	1.000	1.000	1.250	6.00	1.44	0.0	0.0	VP..332	**SM412**	**S959**	**CM114**	**S412**	5/32
NVLCL203D	1.250	1.250	1.500	6.00	1.44	0.0	0.0	VP..332	**SM412**	**S959**	**CM114**	**S412**	5/32
NVLCL243D	1.500	1.500	2.000	6.00	1.62	0.0	0.0	VP..332	**SM412**	**S959**	**CM114**	**S412**	5/32



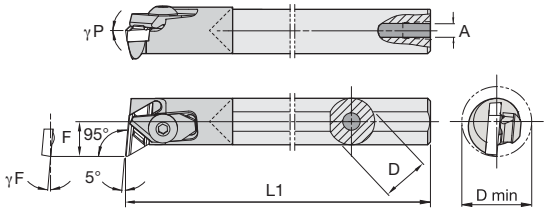
NVVC 17.5°



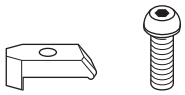
catalog number	H	B	F	L1	LH	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
NVVCN163D	1.000	1.000	0.497	6.00	1.62	0.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32



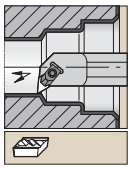
Carbide shank with through coolant.



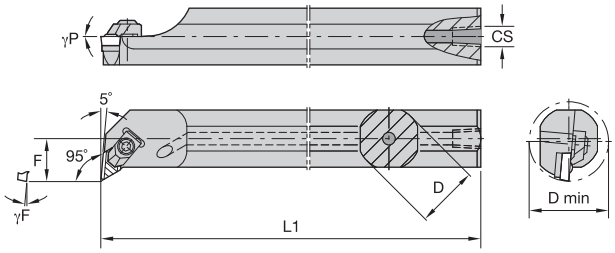
E-NEL -5°



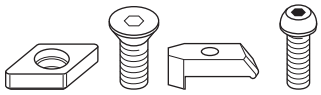
catalog number	D	D min	F	L1	A	γF°	γP°	gage insert	clamp	clamp screw	hex (inch)
right hand											
E08NELR05	.500	.750	.375	8.15	.187	-5.0	0.0	NPL51	**CM106**	**S518**	3/32



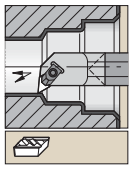
Steel shank with through coolant.



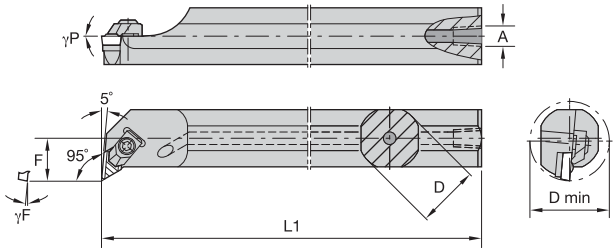
A-NKLC -5°



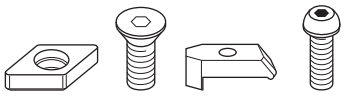
catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
A10NKLCR05	.625	.900	.495	10.06	1/8-27 NPT	-5.0	0.0	NP..51L	**SM286**	**S959**	**CM79**	**S524**	1/8
A12SNKLCR05	.750	.980	.562	10.00	1/8-27 NPT	-5.0°	0.0°	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
A16NKLCR05	1.000	1.300	.750	12.00	1/4-18 NPT	-3.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
A20NKLCR05	1.250	1.580	.875	14.00	1/4-18 NPT	-3.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
A24NKLCR05	1.500	1.870	1.000	14.00	1/4-18 NPT	-2.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
left hand													
A10SNKLCL05	.625	.900	.500	10.00	1/8-27 NPT	-5.0	0.0	NP..51R	**SM285**	**S959**	**CM71**	**S524**	1/8
A12SNKLCL05	.750	.980	.562	10.00	1/8-27 NPT	-5.0°	0.0°	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8
A16NKLCL05	1.000	1.300	.750	12.00	1/4-18 NPT	-3.0	0.0	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8



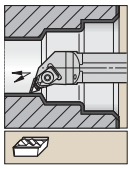
Carbide shank with through coolant.



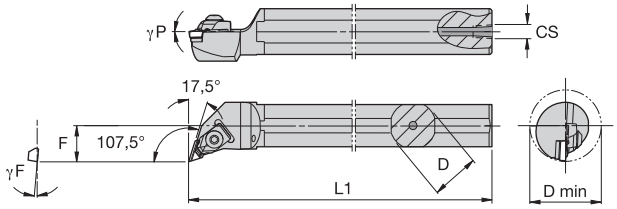
E-NKLC -5°



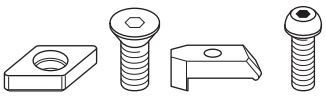
catalog number	D	D min	F	L1	A	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
E08NKLCR05	.500	.660	.375	8.00	.187	-5.0	0.0	NP..51L	**–**	**–**	**CM106**	**S518**	3/32
E10NKLCR05	.625	.900	.500	10.00	.218	-5.0	0.0	NP..51L	**SM286**	**S959**	**CM79**	**S524**	1/8
E12NKLCR05	.750	.980	.562	10.00	.281	-5.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
E16NKLNR1	1.000	1.500	.750	12.25	.313	-5.0	-5.0	NPL132	**SM271**	**SL344**	**CM66**	**S625**	5/32
left hand													
E08NKLCL05	.500	.660	.375	8.00	.187	-5.0	0.0	NP..51R	**–**	**–**	**CM105**	**S518**	3/32
E10NKLCL05	.625	.900	.500	10.00	.218	-5.0	0.0	NP..51R	**SM285**	**S959**	**CM71**	**S524**	1/8
E12NKLCL05	.750	.980	.562	10.00	.281	-5.0	0.0	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8



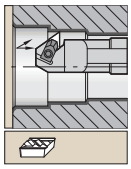
Steel shank with through coolant.



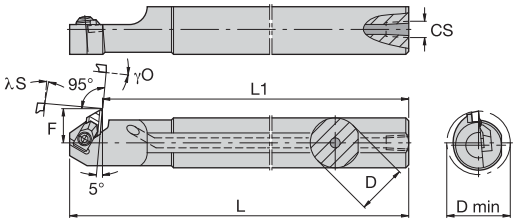
A-NKQC -17.5°



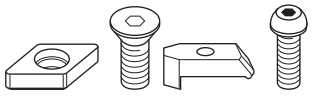
catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
A08NKQCR05	.500	.670	.375	8.00	1/16-27 NPT	-6.0	0.0	NP..51L	—	—	**CM112**	**S518**	3/32
A12SNKQCR05	.750	.980	.562	10.00	1/8-27 NPT	-6.0°	0.0°	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
A16NKQCR05	1.000	1.300	.750	12.00	1/4-18 NPT	-3.0	0.0	NP..51L	**SM286**	**S959**	**CM68**	**S524**	1/8
left hand													
A08NKQCL05	.500	.670	.375	8.00	1/16-27 NPT	-6.0	0.0	NP..51R	—	—	**CM111**	**S518**	3/32
A12SNKQCL05	.750	.980	.562	10.00	1/8-27 NPT	-6.0°	0.0°	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8
A16NKQCL05	1.000	1.300	.750	12.00	1/4-18 NPT	-3.0	0.0	NP..51R	**SM285**	**S959**	**CM68**	**S524**	1/8



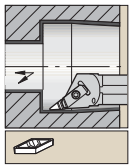
Steel shank with through coolant.



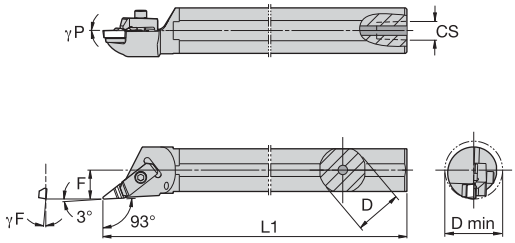
A-NKXC -5°



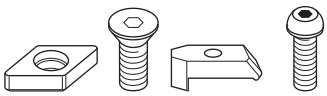
catalog number	D	D min	F	L1	L	CS	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand														
A12NKXCR05	.750	1.060	.625	10.00	10.63	1/8-27 NPT	-5.0°	0.0°	NP..51R	**SM285**	**S959**	**CM79**	**S524**	1/8
A16NKXCR05	1.000	1.300	.750	12.00	12.63	1/4-18 NPT	-5.0°	0.0°	NP..51R	**SM285**	**S959**	**CM79**	**S524**	1/8



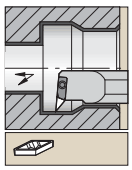
Steel shank with through coolant.



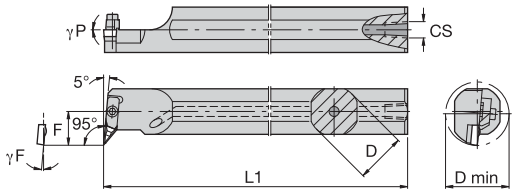
A-NVJC -3°



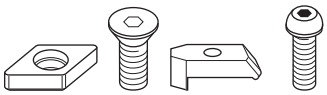
catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
A20NVJCR3	1.250	1.774	.765	14.00	1/4-18 NPT	-2.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32



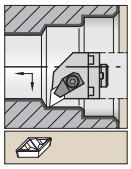
Steel shank with through coolant.



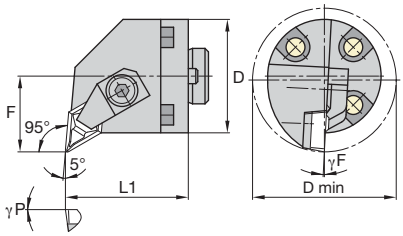
A-NVLC -5°



catalog number	D	D min	F	L1	CS	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand													
A20NVLCR3	1.250	1.830	1.120	14.07	1/4-18 NPT	-2.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32
A24NVLCR3	1.500	2.120	1.250	14.00	1/4-18 NPT	-2.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32
A32NVLCR3	2.000	2.620	1.500	16.00	1/4-18 NPT	-2.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32

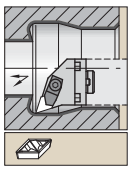


With through coolant.

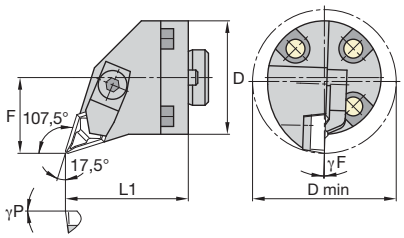


H-NDLP -5°

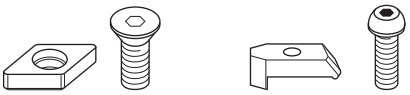
catalog number	D	D min	F	L1	γF°	γP°	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	hex (inch)
right hand													
H20NDLPR4W	1.250	1.580	.875	1.625	-3.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM118**	**S532**	5/32
H24NDLPR4W	1.500	1.870	1.000	1.625	-2.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM118**	**S532**	5/32



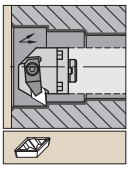
With through coolant.



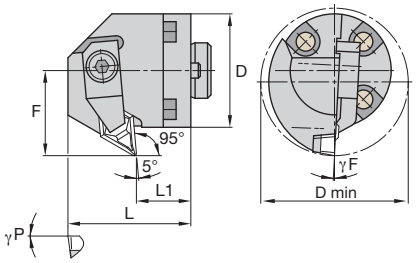
H-NDQP -17.5°



catalog number	D	D min	F	L1	γF°	γP°	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	hex (inch)
left hand													
H32NDQPL4W	2.000	2.500	1.375	1.625	0.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM116**	**S532**	5/32

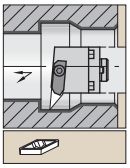


With through coolant.

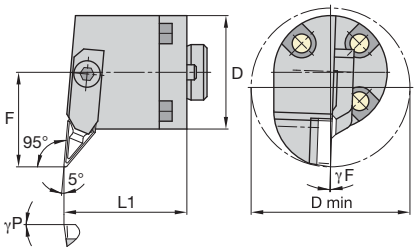


H-NDXP -5°

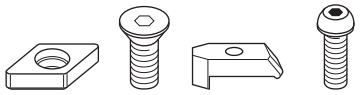
catalog number	D	D min	F	L1	L	γF°	γP°	gage insert	shim	shim screw	hex (inch)	clamp	clamp screw	hex (inch)
right hand														
H24NDXPR4W	1.500	2.000	1.125	.750	1.62	0.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM118**	**S532**	5/32
left hand														
H20NDXPL4W	1.250	1.705	1.000	.750	1.62	-3.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM119**	**S532**	5/32
H40NDXPL4W	2.500	3.125	1.625	.750	1.62	0.0	0.0	DP..432	**SM414**	**S111**	1/16	**CM119**	**S532**	5/32



With through coolant.



H-NVLP -5°



catalog number	D	D min	F	L1	γF°	γP°	gage insert	shim	shim screw	clamp	clamp screw	hex (inch)
right hand												
H24NVLPR3W	1.500	2.120	1.250	1.625	-2.0	0.0	VP..332	**SM412**	**S959**	**CM113**	**S412**	5/32

Railroad

The intimate understanding Kennametal provides of the economics of the railroad value chain enables us to offer unparalleled custom solutions tailored to your needs. We deliver superior value because we listen closely to you, our customer, and innovate based on your feedback. Our goal is to help you be more competitive — both locally and on a global scale.

Best Practices in Productivity

As your trusted partner for optimized production, Kennametal offers customers a unique commitment to research and development excellence, leading to continued delivery of highly innovative ways to enhance your productivity. Certification to ISO 9001, QS 9000 TES, and VDA 6.4 guarantees the highest possible quality standards.

Best Performance, Less Environmental Impact

With technology, we can do both. Kennametal helps customers focus on the root causes of unsustainable behavior in highly complex manufacturing systems, while at the same time improving cost structure, quality, and performance. In addition to offering the latest in metalcutting tools and technology, our Advanced Engineering Team will analyze your existing production processes and help you identify new methods to improve your overall performance.

Wheel Lathe Tooling

Kennametal railroad tooling incorporates a unique locking unit design developed through years of testing on all types of wheel lathes and machining wheels with all types of tread surfaces.

This heavy-duty, rugged design has proven to be effective in reducing machining costs on tread turning applications, the most severe machining operation encountered in wheel and axle shops.

Strong inserts, with raised chipbreaker land and honed cutting edges, offer more effective chip control and a stronger cutting edge. Combining this tool geometry with the Kennametal grade selection delivers higher wheel turning productivity.

Wheelset

Advantages of Kennametal Wheel Lathe Tools:

- No top clamp to wear out or interfere with chip flow.
- Insert locks against two walls in the toolholder to prevent insert movement under heavy cutting loads.
- Hardened steel locking unit provides positive insert seating and holder protection.
- Fast, trouble-free insert indexing — just unlock one screw to release the insert.
- Quick removal of the steel locking unit and insert for cleaning or replacement.
- Heavy-duty steel locking unit design ensures longer life and helps reduce operating costs.
- Fewer parts to inventory.
- Toolholders and steel locking units, made from heat-treated alloy steel, provide support to withstand severe roughing cuts on work-hardened wheels.

LNUX-RRF Full Radius

LNUX-RRP Full Radius

LNUX-RRH

LNUX-RRP

KRR6586-71

KRR6586-75

LNUX-RRSM

KRR6586-65

KRR6586-52

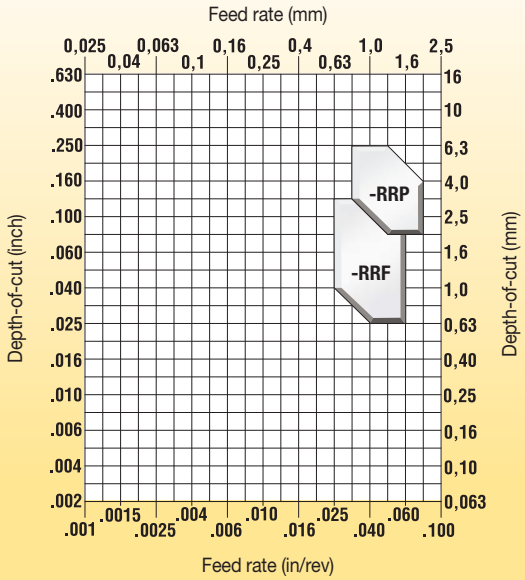
KRR6586-50

LNUX

Full-Radius Design

Our well-performed chipbreaking geometry RRF and RRP

- One insert can be applied in profiling and facing.
- Chip control even at smaller DOC will be improved!



-RRP

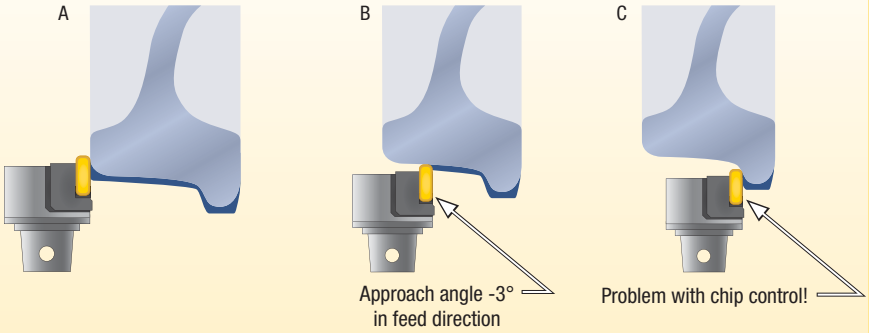
-RRF

Application Recommendation

A: At the beginning of the process, the DOC is higher because most of the bigger bur needs to be removed.

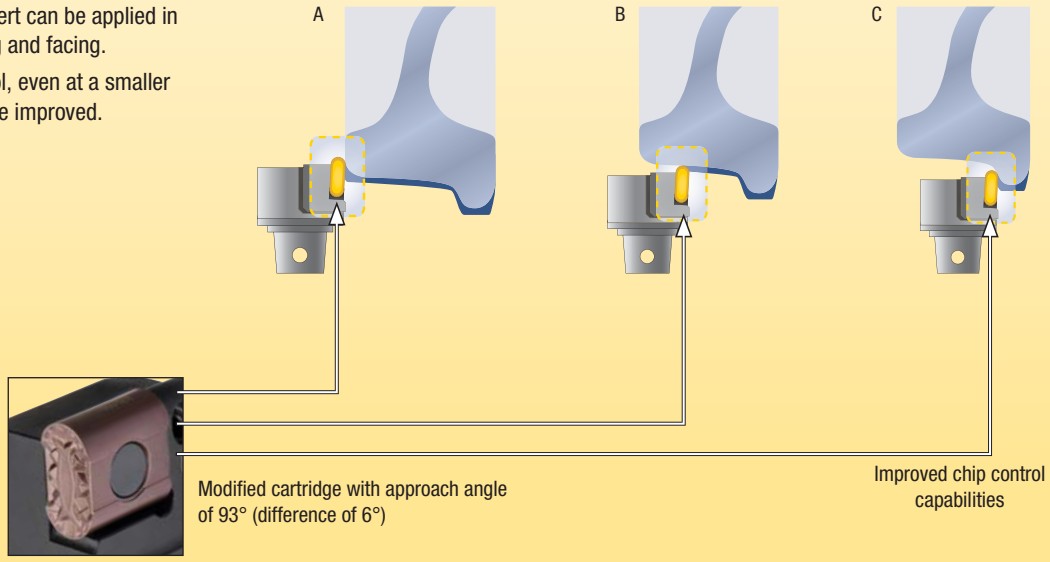
B: The DOC is smaller, but sometimes it has “hot spots” or brake spots.

C: Most critical area in regards to chip control because the thickness of the chip is quite thin and very diffficult to manage.

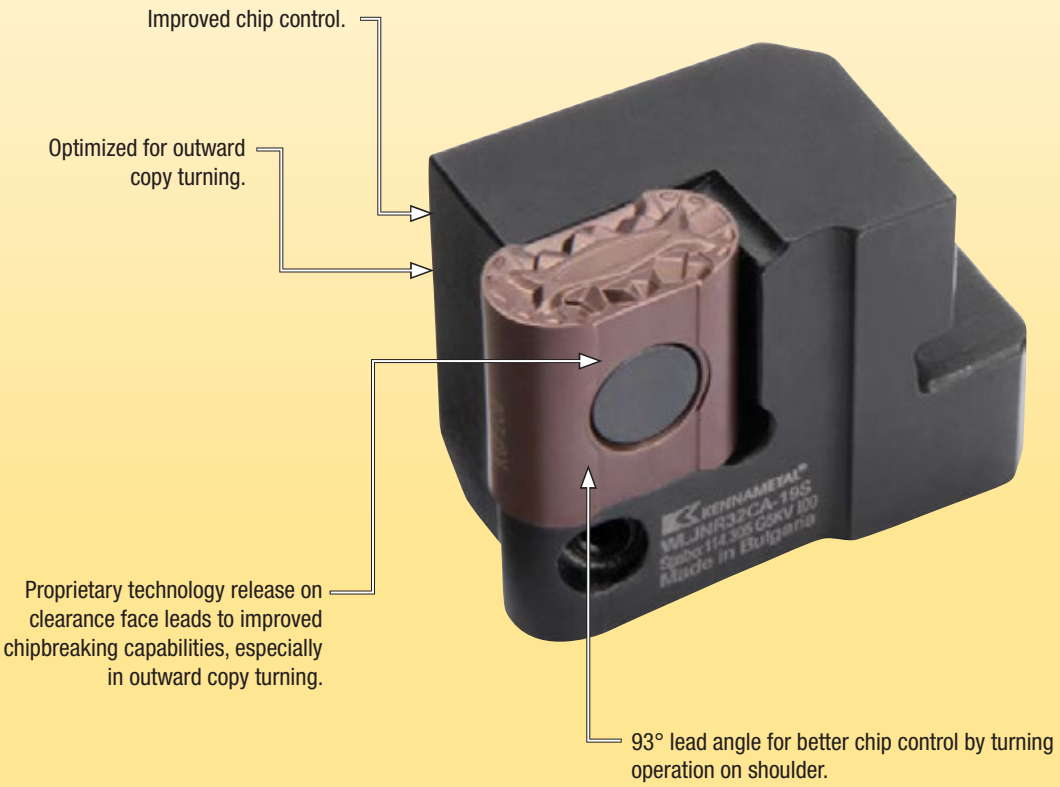


A, B, & C: One insert can be applied in profiling and facing.

A & C: Chip control, even at a smaller DOC, will be improved.



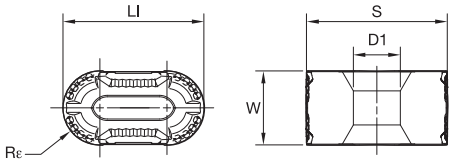
Features and Benefits



- The well performed RRF and RRP chipbreaker geometry with a full-radius design offers better chip control even at smaller DOC.

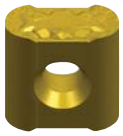
● first choice
○ alternate choice

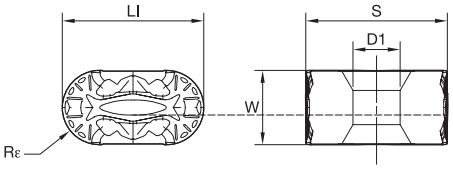
P		●	●
M			
K			
N			
S			
H			



LNUX-RRF Full-Radius

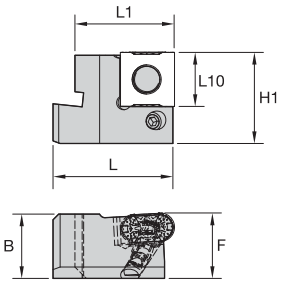
ISO catalog number	ANSI catalog number	W mm	W in	LI mm	LI in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP25B
LNUX191950RRF	**LNUX191950RRF**	10,00	.394	19,05	.750	19,05	3/4	5,00	.196	6,35	.250	●	●

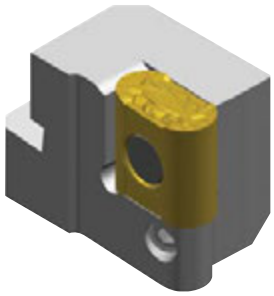




LNUX-RRP Full-Radius

ISO catalog number	ANSI catalog number	W mm	W in	LI mm	LI in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP25B
LNUX191950RRP	**LNUX191950RRP**	10,00	.394	19,05	.750	19,05	3/4	5,00	.197	6,35	.250	●	●
LNUX301960RRP	**LNUX301960RRP**	12,00	.472	30,00	1.181	19,05	3/4	6,00	.236	6,35	.250	●	●

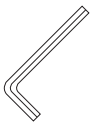




Cartridge WLJN

order number	catalog number	H1 mm	H1 in	B mm	B in	F mm	F in	L10 mm	L10 in	L1 mm	L1 in	L mm	L in	gage insert
6049016	**WLJNL32CA19S**	32,00	1.260	22,60	.890	23,00	.906	19,050	.750	35,00	1.38	42,70	1.681	LNUX191950RRP
6049018	**WLJNL32CA30S**	32,00	1.260	22,60	.890	23,50	.925	30,000	1.181	35,00	1.38	45,00	1.772	LNUX301960RRP
6049015	**WLJNR32CA19S**	32,00	1.260	22,60	.890	23,00	.906	19,050	.750	35,00	1.38	42,70	1.681	LNUX191950RRP
6049017	**WLJNR32CA30S**	32,00	1.260	22,60	.890	23,50	.925	30,000	1.181	35,00	1.38	45,00	1.772	LNUX301960RRP

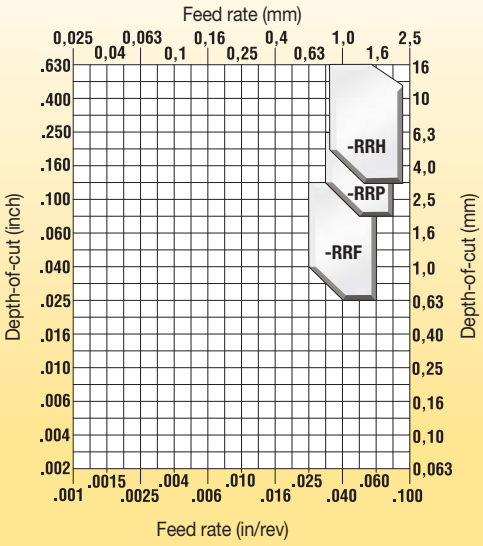
Spare Parts



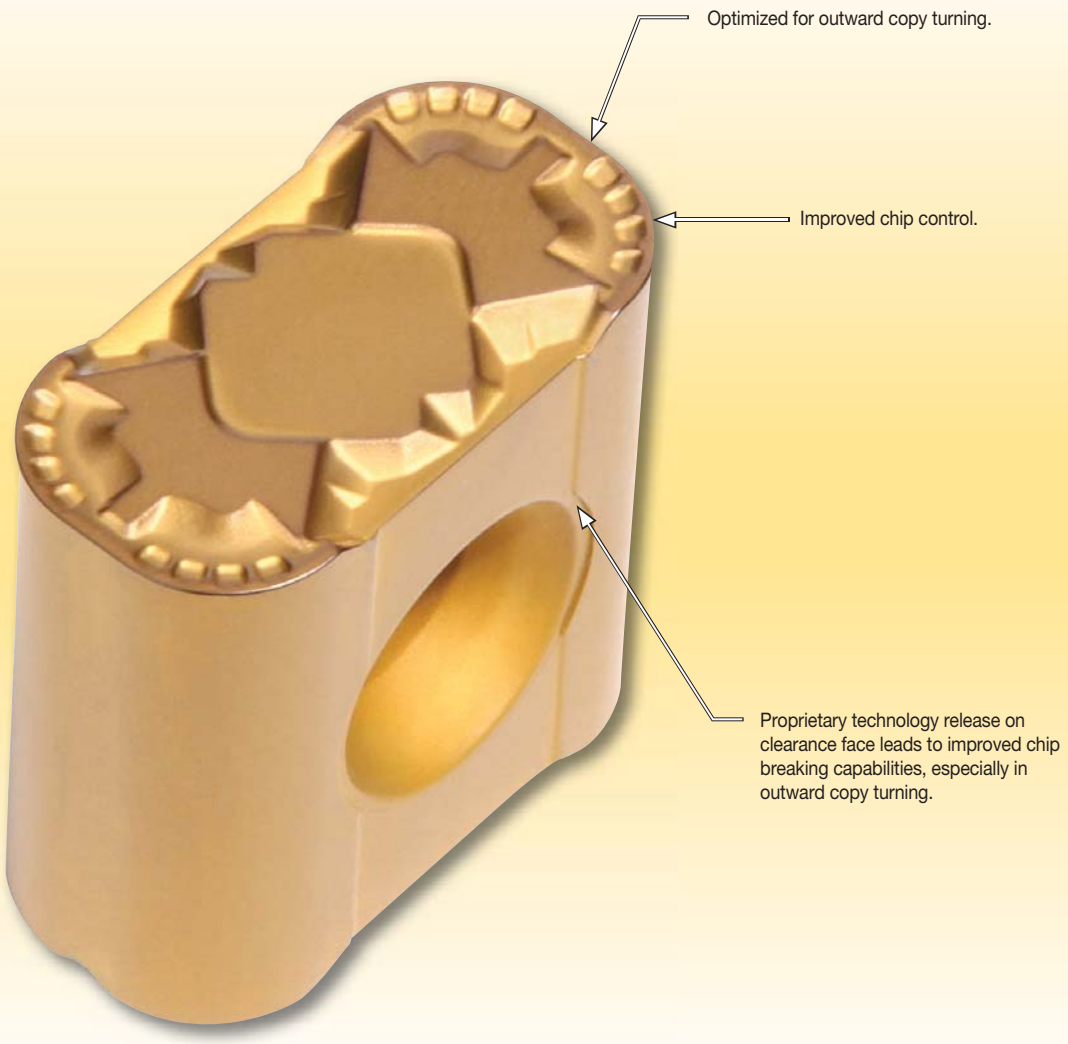
catalog number	clamp stud	clamp screw	hex wrench
WLJNL32CA19S	**114.305**	**121.616**	**170.003**
WLJNL32CA30S	**114.305**	**121.616**	**170.003**
WLJNR32CA19S	**114.305**	**121.616**	**170.003**
WLJNR32CA30S	**114.305**	**121.616**	**170.003**

New Chip Breaking Geometry

For Rail Wheel Machining — RRF



Small DOC Re-Profiling

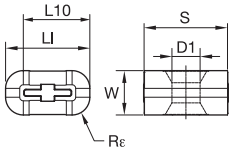


Kennametal stocks a complete line of standard inserts for wheel and axle machining. Inserts are available in various styles, sizes, and grades.

- **Wheel boring** — molded chipbreaker inserts in round, square, octagon, and regrindable inserts.
- **Axle turning** — triangle- and diamond-shaped inserts with chipbreakers.
- **Wheel turning** — rectangular and square styles, with or without molded chipbreakers.
- **Wheel truing** — round buttons with center hole for locking.

● first choice
○ alternate choice

		KCP10B	KCP10	KCP25B	KCP25
P		●	●	●	●
M					
K		○	○	○	○
N					
S					
H					



LNUX-RRF

ISO catalog number	ANSI catalog number	W mm	W in	LI mm	LI in	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP10	KCP25B	KCP25
LNUX191940RRF	**LNUX191940RRF**	10,00	.394	19,00	.748	19,00	.748	19,05	3/4	4,00	5/32	6,35	.250	–	●	–	●
LNUX301940RRF	**LNUX301940RRF**	12,00	.472	30,00	1.181	30,00	1.181	19,05	3/4	4,00	5/32	6,35	.250	–	●	–	–

NOTE: Also available in KC9105™.

LNUX-RRH

ISO catalog number	ANSI catalog number	W mm	W in	LI mm	LI in	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP10	KCP25B	KCP25
LNUX191940RRH	**LNUX191940RRH**	10,00	.394	19,00	.748	19,00	.748	19,05	3/4	4,00	5/32	6,35	.250	–	●	–	●
LNUX301940RRH	**LNUX301940RRH**	12,00	.472	30,00	1.181	30,00	1.181	19,05	3/4	4,00	5/32	6,35	.250	●	–	–	●

NOTE: Also available in KC9105.

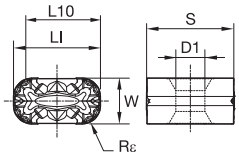
Application Specific

Kennametal stocks a complete line of standard inserts for wheel and axle machining. Inserts are available in various styles, sizes, and grades.

- **Wheel boring** — molded chipbreaker inserts in round, square, octagon, and regrindable inserts.
- **Axle turning** — triangle- and diamond-shaped inserts with chipbreakers.
- **Wheel turning** — rectangular and square styles, with or without molded chipbreakers.
- **Wheel truing** — round buttons with center hole for locking.

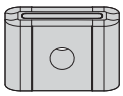
● first choice
○ alternate choice

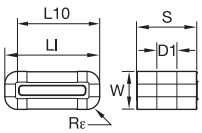
P		●	●	●	●
M					
K		○	○	○	○
N					
S					
H					



LNUX-RRP

ISO catalog number	ANSI catalog number	W		LI		L10		S		Rε		D1		KCP10B	KCP10	KCP25B	KCP25
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in				
LNUX191940RRP	LNUX191940RRP	10,00	.394	19,00	.748	19,00	.748	19,05	3/4	4,00	5/32	6,35	.250	–	●	–	●
LNUX301940RRP	LNUX301940RRP	12,00	.472	30,00	1.181	30,00	1.181	19,05	3/4	4,00	5/32	6,35	.250	–	–	–	●





LNUX-RRSM

ISO catalog number	ANSI catalog number	W		LI		L10		S		Rε		D1		KCP10B	KCP10	KCP25B	KCP25
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in				
LNUX191940RRSM	LNUX191940RRSM	10,00	.394	19,00	.748	19,00	.748	19,05	3/4	4,00	5/32	6,35	.250	–	–	●	–
LNUX301940RRSM	LNUX301940RRSM	12,00	.472	30,00	1.181	30,00	1.181	19,05	3/4	4,00	5/32	6,35	.250	●	–	–	–

NOTE: Also available in KC9105™.

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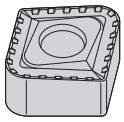
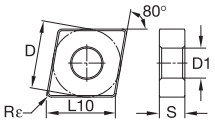
- **Wheel turning** — rectangular and square styles, with or without molded chipbreakers.
- **Wheel truing** — round buttons with center hole for locking.

● first choice
○ alternate choice

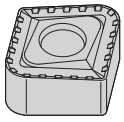
P		●	●	●	●
M					
K			●	●	●
N					
S					
H					

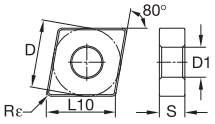




CNMM-RRP

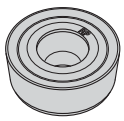
ISO catalog number	ANSI catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP10	KCP25B	KCP25
CNMM190740RRP	CNMM190740RRP	19,34	.762	7,94	5/16	4,00	5/32	7,93	.313	●	–	–	–

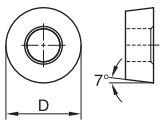




LNUX-WT5

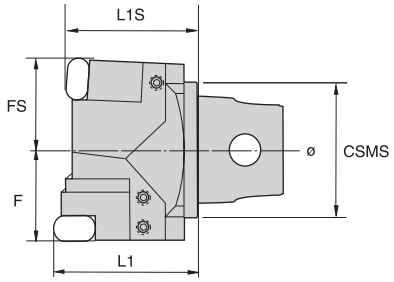
ISO catalog number	ANSI catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP10	KCP25B	KCP25
LNUX191940S-WT5	LNUX191940S-WT5	19,05	.750	19,05	3/4	4,00	5/32	6,35	.250	–	–	●	–
SNMX190640S-WT5	SNMX190640S-WT5	19,05	.750	6,35	1/4	4,00	5/32	6,35	.250	–	–	●	–





RCMX

ISO catalog number	ANSI catalog number	L10 mm	L10 in	S mm	S in	Rε mm	Rε in	D1 mm	D1 in	KCP10B	KCP10	KCP25B	KCP25
RCMX2507M076	RCMX2507M076	—	—	7,94	5/16	—	—	7,40	.291	–	–	●	–

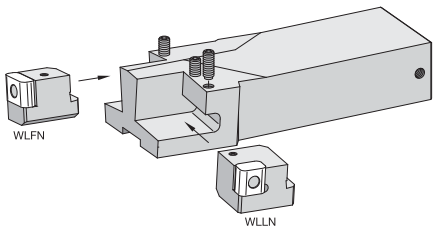


TK

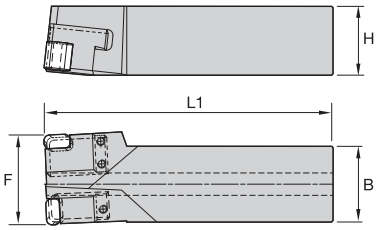
order number	catalog number	CSMS system size	F		FS		L1		L1S	
			mm	in	mm	in	mm	in	mm	in
1781755	**TK01338D**	KM63	42,50	1.673	42,50	1.673	66,00	2.598	60,00	2.362
1781756	**TK01339D**	KM63	42,50	1.673	42,50	1.673	66,00	2.598	60,00	2.362

Assembly Instructions

basic/KM shank	cartridge WLLN..	cartridge WLFN..
right	right	left
left	left	right

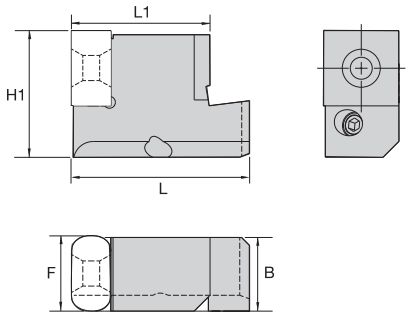


Assembly of complete tool



Basic Shank WXXN

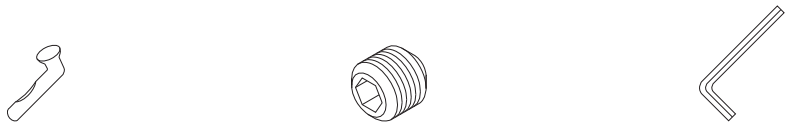
order number	catalog number	H		B		F assembly		L1 assy		clamp screw
		mm	in	mm	in	mm	in	mm	in	
1251261	**WXXNL4455X-FL**	50,00	1.969	55,00	2.165	65,00	2.559	210,00	8.268	**PT00163**
1251262	**WXXNR4455X-FL**	50,00	1.969	55,00	2.165	65,00	2.559	210,00	8.268	**PT00163**



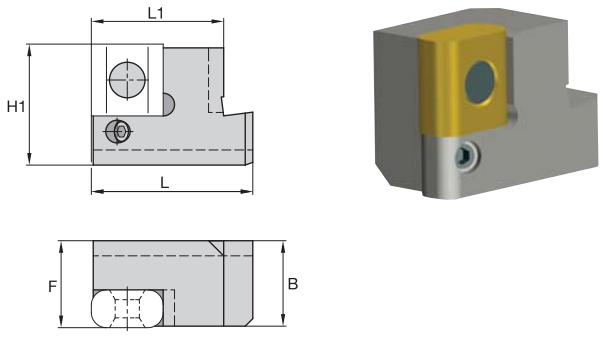
Cartridge WLFN

order number	catalog number	H1 mm	H1 in	B mm	B in	F mm	F in	L1 mm	L1 in	L mm	L in	insert 1
2435188	WLFNL32CA19S	32,00	1.260	18,60	.732	19,00	.748	35,00	1.378	42,70	1.681	LNUX191940...
2435187	WLFNR32CA19S	32,00	1.260	18,60	.732	19,00	.748	35,00	1.378	42,70	1.681	LNUX191940...

Spare Parts



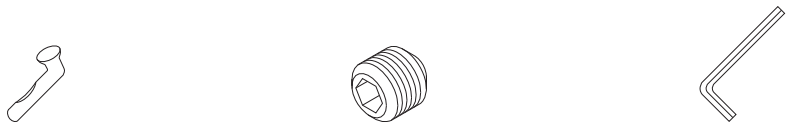
catalog number	clamp stud	clamp screw	hex wrench
WLFNL32CA19S	114.305	121.616	170.003
WLFNR32CA19S	114.305	121.616	170.003



Cartridge WLLN

order number	catalog number	H1 mm	H1 in	B mm	B in	F mm	F in	L1 mm	L1 in	L mm	L in	insert 1
2435184	WLLNL32CA19S	32,00	1.260	22,60	.890	23,00	.906	35,00	1.378	42,70	1.681	LNUX191940...
2435186	WLLNL32CA30S	32,00	1.260	22,60	.890	23,00	.906	35,00	1.378	42,70	1.681	LNUX301940...
2435183	WLLNR32CA19S	32,00	1.260	22,60	.890	23,00	.906	35,00	1.378	42,70	1.681	LNUX191940...
2435185	WLLNR32CA30S	32,00	1.260	22,60	.890	23,00	.906	35,00	1.378	42,70	1.681	LNUX301940...

Spare Parts



catalog number	clamp stud	clamp screw	hex wrench
WLLNL32CA19S	114.305	121.616	170.003
WLLNL32CA30S	114.305	121.616	170.003
WLLNR32CA19S	114.305	121.616	170.003
WLLNR32CA30S	114.305	121.616	170.003

Wheel and Wheelset Truing with Beyond™ RU and UP Geometries

Kennametal tooling incorporates the latest technology for maximum metal removal and higher productivity. Standard off-the-shelf inserts and fewer pieces of hardware reduce inventory and operating costs. These tools are for reconditioning mounted wheel sets, wheel boring, wheel truing, axle turning, and journal burnishing.

Features and Benefits

Advantages of Kennametal Wheel Lathe Tools

- Heavy-duty steel locking unit.
- No top clamp to wear out or interfere with chip flow.
- Hardened-steel locking unit prevents insert movement.
- Quick removal of the steel locking unit.
- Fast trouble-free insert indexing.
- Withstand severe roughing cuts on work-hardened wheels.

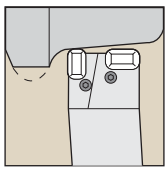
Achieve superior results while lowering production time and maintenance costs in these tough conditions:

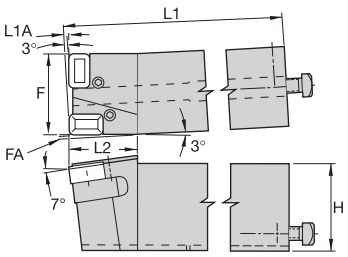
- Skid flat areas.
- Accidental torch burns.
- Overheating of spinning wheels.
- Excessive mushroom and rollovers that are hardened by unusual hump retarder pressure.
- Mismatched wheels that cause excessive wear on the flange side.

RU–Roughing Universal

UP–Universal Positive

- Fully automatic, heavy-duty wheel lathe with integrated measuring device to determine wheel set profile wear.
- Portal-type machine bed enables roll-through operation.
- Suitable for machining wheel sets for locomotives, transit, passenger, and freight cars.



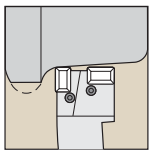


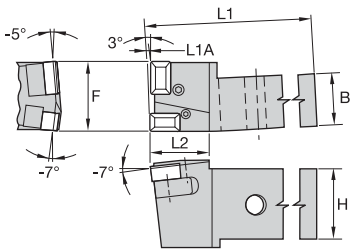
Tread Profile Truing

order number	catalog number	H		F		L1		L2		FA		L1A		insert 1
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
1015754	**HUWTCL**	80,00	3.150	76,20	3.000	275,00	10.827	63,50	2.500	3,00	.118	3,00	.118	KRR6586__
1015723	**HUWTCR**	80,00	3.150	76,20	3.000	275,00	10.827	63,50	2.500	3,00	.118	3,00	.118	KRR6586__

NOTE: Requires two inserts.

- Maximum productivity at minimum operating costs.
- Fast insert indexing while tool is mounted in the tool block.
- Individual steel locking units make it easy to index and lock each insert.
- Gage location on tool, over insert, is held to +/- .003" (0,08mm).
- No top clamp to wear out or interfere with chip flow.
- Replaceable steel locking unit protects toolholder from damage.
- Improved inserts with chip control.



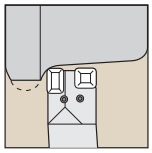


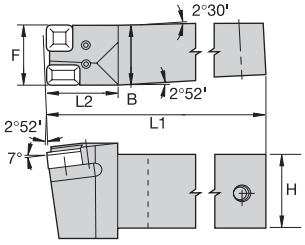
Wheel Tread Contouring

order number	catalog number	H		F		L1		L2		FA		L1A		insert 1
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
1015688	**FUWTCL**	76,20	3.000	57,15	2.250	76,20	3.000	254,00	10.000	66,55	2.620	3,05	.120	KRR6586__
1015687	**FUWTCR**	76,20	3.000	57,15	2.250	76,20	3.000	254,00	10.000	66,55	2.620	3,05	.120	KRR6586__

NOTE: Requires two inserts.

- Maximum productivity at minimum operating costs.
- Fast insert indexing tool mounted in tool block.
- Individual steel locking units make it easy to index and lock each insert.
- Minimum parts for lower inventory.
- No top clamp to wear out or interfere with chip flow.
- Replaceable steel locking unit protects toolholder from damage.
- Indexable inserts with pre-formed chipbreakers deliver chip control at optimum feeds and speeds.

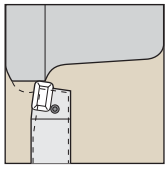


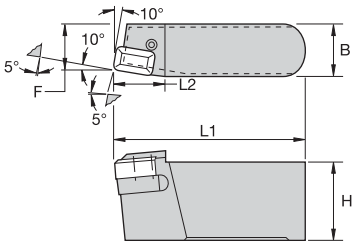


Wheel Tread Contouring

order number	catalog number	H		B		F		L1		L2		insert 1
		mm	in	mm	in	mm	in	mm	in	mm	in	
1015659	**SUWTCL**	76,20	3.000	57,15	2.250	57,15	2.250	254,00	10.000	66,55	2.620	KRR6586__
1015658	**SUWTCR**	76,20	3.000	57,15	2.250	57,15	2.250	254,00	10.000	66,55	2.620	KRR6586__

NOTE: Requires two inserts.



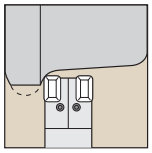


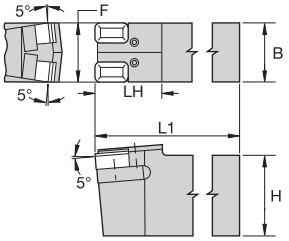
Wheel Flange Topping

order number	catalog number	H		B		F		L1		L2		insert 1
		mm	in	mm	in	mm	in	mm	in	mm	in	
1015690	**NUFRL**	63,50	2.500	41,28	1.625	36,53	1.438	152,40	6.000	39,62	1.560	KRR6586__
1015689	**NUFRR**	63,50	2.500	41,28	1.625	36,53	1.438	152,40	6.000	39,62	1.560	KRR6586__

- Maximum productivity at minimum operating costs.
- Fast insert indexing tool mounted in tool block.
- Individual steel locking units make it easy to index and lock each insert.
- Gage location on tool, over insert, is held to +/- .003" (0,08mm).
- No top clamp to wear out or interfere with chip flow.
- Replaceable steel locking unit protects toolholder from damage.
- Indexable inserts with pre-formed chipbreakers deliver chip control at optimum feeds and speeds.

Simmons-Niles Wheel Turning Lathe





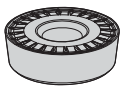
Wheel Tread Contouring

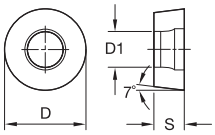
order number	catalog number	H		B		F		L1		LH		insert 1	steel locking unit	lock screw
		mm	in	mm	in	mm	in	mm	in	mm	in			
1015684	**NUWTC**	76,20	3.000	57,15	2.250	57,15	2.250	412,75	16.250	95,25	3.750	KRR6586__	**SU3**	**S1006PKG**

NOTE: Requires two inserts.

● first choice
○ alternate choice

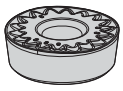
		KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
P			○	●	●	●	●	●	○
M									●
K		●	●	○	○	○	○		○
N									○
S									●
H									○

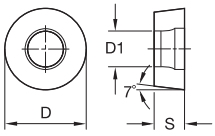




RCMH-UPG

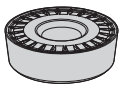
ISO catalog number	ANSI catalog number	D mm	D in	D1 mm	D1 in	S mm	S in	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMH2507M0TUPG	RCMH2507M0TUPG	25	.984	7,55	.297	7,94	.313	–	–	–	●	–	●	–	–
RCMH3209M0TUPG	RCMH3209M0TUPG	32	1.260	10,35	.407	9,52	.375	–	–	–	●	–	●	–	–

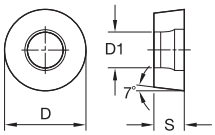




RCMH-RU

ISO catalog number	ANSI catalog number	D mm	D in	D1 mm	D1 in	S mm	S in	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMH2507M0RU	RCMH2507M0RU	25	.984	7,55	.297	7,94	.313	–	–	–	–	●	–	–	–
RCMH3209M0RU	RCMH3209M0RU	32	1.260	10,35	.407	9,53	.375	–	–	–	–	●	–	–	–



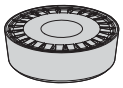


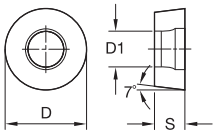
RCMT-UPG

ISO catalog number	ANSI catalog number	D mm	D in	D1 mm	D1 in	S mm	S in	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMT1606M0UPG	RCMT1606M0UPG	16	.630	5,50	.217	6,35	.250	●	–	–	●	–	●	●	–
RCMT2006M0UPG	RCMT2006M0UPG	20	.787	6,50	.256	6,35	.250	●	–	–	●	–	●	●	–

● first choice
○ alternate choice

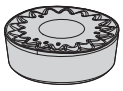
		KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
P			○	●	●	●	●	●	○
M									●
K		●	●	○	○	○	○		○
N									○
S									●
H									○

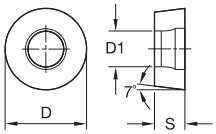




RCMX-UPG

ISO catalog number	ANSI catalog number	D mm	D in	D1 mm	D1 in	S mm	S in	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMX2507M0TUPG	RCMX2507M0TUPG	25	.984	7,19	.283	7,94	.313	–	–	–	●	–	●	–	–
RCMX3209M0TUPG	RCMX3209M0TUPG	32	1.260	9,78	.385	9,52	.375	–	–	–	●	–	●	–	–





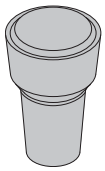
RCMX-RU

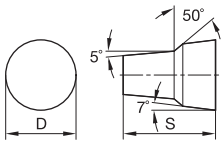
ISO catalog number	ANSI catalog number	D mm	D in	D1 mm	D1 in	S mm	S in	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMX2507M0RU	RCMX2507M0RU	25	.984	7,19	.283	7,94	.313	–	●	–	–	–	–	–	–
RCMX3209M0RU	RCMX3209M0RU	32	1.260	9,78	.385	9,53	.375	–	●	●	–	–	–	–	–

K-Lock™ Inserts

Features and Benefits

- K-Lock inserts are ideal for deep grooving and profiling.
- A unique insert clamping system enables unimpeded chip flow.
- Available in molded and ground peripheries.



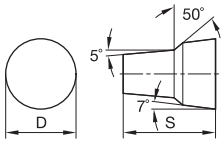


● first choice
○ alternate choice

P			○	○	○	○	
M			●	●	●	●	
K		○					
N		●	○				●
S		●	●	●	●	●	
H							

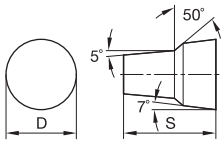
RCGK-FS

ISO catalog number	ANSI catalog number	D mm	D in	S mm	S in	K68	KCU10	KCU25	KC5010	KC5025	KC5410
RCGK040300FS	RCGK152FS	4,76	3/16	6,38	.251	–	●	–	–	–	–
RCGK060400FS	RCGK23FS	6,35	1/4	9,09	.358	–	●	–	●	–	–
RCGK090700FS	RCGK35FS	9,53	3/8	13,23	.521	–	●	–	●	●	–
RCGK120800FS	RCGK46FS	12,70	1/2	16,61	.654	–	●	–	–	–	–



RCGK-HP

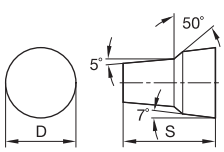
ISO catalog number	ANSI catalog number	D mm	D in	S mm	S in	K68	KCU10	KCU25	KC5010	KC5025	KC5410
RCGK040300HP	RCGK152HP	4,76	3/16	6,38	.251	–	●	–	●	–	–
RCGK060400HP	RCGK23HP	6,35	1/4	9,09	.358	–	●	–	●	–	●
RCGK090700HP	RCGK35HP	9,53	3/8	13,23	.521	–	●	–	–	–	●
RCGK120800HP	RCGK46HP	12,70	1/2	16,61	.654	–	●	–	–	–	●



RCMK

ISO catalog number	ANSI catalog number	D mm	D in	S mm	S in	K68	KCU10	KCU25	KC5010	KC5025	KC5410
RCMK040300	RCMK152	4,76	3/16	6,38	.251	–	–	–	●	–	–
RCMK060400	RCMK23	6,35	1/4	9,09	.358	–	●	–	●	–	–
RCMK090700	RCMK35	9,53	3/8	13,23	.521	–	–	–	●	–	–
RCMK120800	RCMK46	12,70	1/2	16,61	.654	–	–	–	●	–	–

- Medium geometry with positive rake face for chip control in difficult materials.

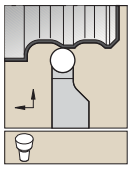


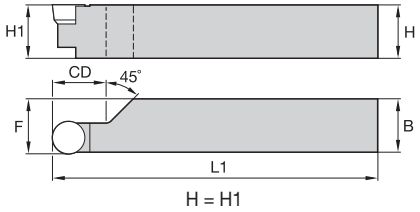
● first choice
○ alternate choice

P			●	●	●	●	
M							
K							
N						●	
S		●	●	●	●	●		●
H							

RCMK-MP

ISO catalog number	ANSI catalog number	D mm	D in	L10 mm	L10 in	Rε mm	Rε in	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KCS10
RCMK060400MP	RCMK23MP	6,35	1/4	–	–	–	–	–	–	–	–	–	–	●
RCMK090700MP	RCMK35MP	9,53	3/8	–	–	–	–	–	–	–	–	–	–	●
RCMK120800MP	RCMK46MP	12,70	1/2	–	–	–	–	–	–	–	–	–	–	●

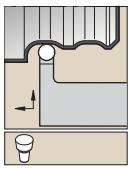


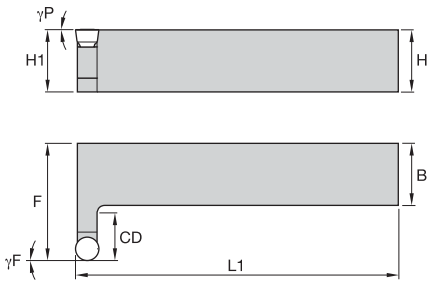


H = H1

TRAO

catalog number	H1	B	F	L1	CD	γF°	γP°	gage insert
right hand								
TRAOR1615D	1.00	1.00	1.003	6.00	.50	0.0	0.0	RC..152
TRAOR162D	1.00	1.00	1.016	6.00	.75	0.0	0.0	RC..23
TRAOR163D	1.00	1.00	1.020	6.00	.75	0.0	0.0	RC..35
TRAOR164D	1.00	1.00	1.032	6.00	1.00	0.0	0.0	RC..46
TRAOR2015D	1.25	1.25	1.253	6.00	.50	0.0	0.0	RC..152
TRAOR202D	1.25	1.25	1.266	6.00	.75	0.0	0.0	RC..23
TRAOR203D	1.25	1.25	1.270	6.00	.75	0.0	0.0	RC..35
TRAOR204D	1.25	1.25	1.282	6.00	1.00	0.0	0.0	RC..46
TRAOR2415E	1.50	1.50	1.503	7.00	.50	0.0	0.0	RC..152
TRAOR242E	1.50	1.50	1.516	7.00	.75	0.0	0.0	RC..23
TRAOR243E	1.50	1.50	1.520	7.00	.75	0.0	0.0	RC..35
TRAOR244E	1.50	1.50	1.532	7.00	1.00	0.0	0.0	RC..46
left hand								
TRAOL1615D	1.00	1.00	1.003	6.00	.50	0.0	0.0	RC..152
TRAOL162D	1.00	1.00	1.016	6.00	.75	0.0	0.0	RC..23
TRAOL163D	1.00	1.00	1.020	6.00	.75	0.0	0.0	RC..35
TRAOL164D	1.00	1.00	1.032	6.00	1.00	0.0	0.0	RC..46
TRAOL2015D	1.25	1.25	1.253	6.00	.50	0.0	0.0	RC..152
TRAOL202D	1.25	1.25	1.266	6.00	.75	0.0	0.0	RC..23
TRAOL203D	1.25	1.25	1.270	6.00	.75	0.0	0.0	RC..35
TRAOL204D	1.25	1.25	1.282	6.00	1.00	0.0	0.0	RC..46
TRAOL2415E	1.50	1.50	1.503	7.00	.50	0.0	0.0	RC..152
TRAOL242E	1.50	1.50	1.516	7.00	.75	0.0	0.0	RC..23
TRAOL243E	1.50	1.50	1.520	7.00	.75	0.0	0.0	RC..35
TRAOL244E	1.50	1.50	1.532	7.00	1.00	0.0	0.0	RC..46



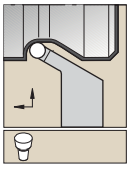


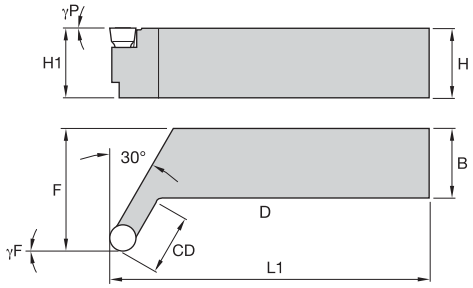
H = H1

TRHO

catalog number	H1	B	F	L1	CD	γF°	γP°	gage insert
right hand								
TRHOR1615D	1.00	1.00	1.625	6.00	.50	0.0	0.0	RC..152
TRHOR162D	1.00	1.00	1.875	6.00	.75	0.0	0.0	RC..23
TRHOR2015D	1.25	1.25	1.875	6.00	.50	0.0	0.0	RC..152

NOTE: Left-hand holders are available as specials.





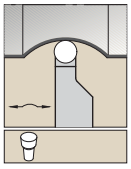
H = H1

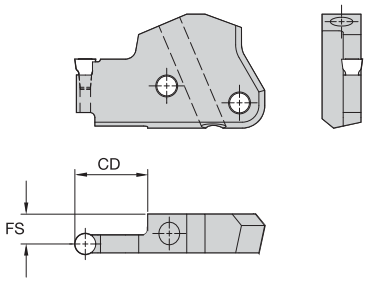
TRTO

catalog number	H1	B	F	L1	CD	γF°	γP°	gage insert
right hand								
TRTOR1615D	1.00	1.00	1.500	6.00	.55	0.0	0.0	RC..152
TRTOR162D	1.00	1.00	1.750	6.00	.84	0.0	0.0	RC..23
TRTOR2015D	1.25	1.25	1.750	6.00	.55	0.0	0.0	RC..152
TRTOR202D	1.25	1.25	2.000	6.00	.84	0.0	0.0	RC..23

NOTE: Left-hand holders are available as specials.

Modular Blades





TRM

catalog number	CD mm	CD in	FS mm	FS in	cartridge size	gage insert
right hand						
TRM50R0432M	32	1.25	9,62	.379	50	RCMK152
TRM50R0620M	19	.75	8,98	.354	50	RCMK23
TRM50R0632M	32	1.25	8,98	.354	50	RCMK-23
TRM50R0640M	38	1.50	8,98	.354	50	RCGK23
TRM50R0720M	19	.75	8,42	.332	50	RCMK-2.55
TRM50R0920M	19	.75	7,64	.301	50	RC_K35
TRM50R0932M	32	1.25	7,65	.301	50	RCMK-35
TRM50R0940M	38	1.50	7,64	.301	50	RC_K35
TRM50R0950M	50	1.95	7,65	.301	50	RCMK-35
left hand						
TRM50L0432M	32	1.25	9,62	.379	50	RCMK152
TRM50L0620M	19	.75	8,98	.354	50	RCMK23
TRM50L0632M	32	1.25	8,98	.354	50	RCMK-23
TRM50L0640M	38	1.50	8,98	.354	50	RCGK23
TRM50L0920M	19	.75	7,64	.301	50	RC_K35
TRM50L0932M	32	1.25	7,65	.301	50	RCMK-35
TRM50L0950M	50	1.95	7,65	.301	50	RCMK-35

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XRDA0625Y6CUE KCPM15	049
ZDET16M504FR721 GH1	T100
ZDET16M508FR721 GH1	T100
ZDET16M512FR721 GH1	T100
ZDET16M516FR721 GH1	T100
ZDET16M520FR721 GH1	T100
ZDET16M525ER721 GH1	T100
ZDET16M525FR721 GH1	T100
ZDET16M530ER721 GH1	T100
ZDET16M530FR721 GH1	T100
ZDET16M532FR721 GH1	T100
ZDET16M540ER721 GH1	T100
ZDET16M540FR721 GH1	T100
ZDET16M550FR721 GH1	T100
ZDET16M560FR721 GH1	T100
ZDET16M5PDFR721 GH1	T100

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For page references F–X, please see Volume II • Rotating Tools Catalog.

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Turning Icons

Shank: KM-TS™ (ISO 26622)	Shank: KM4X™	Shank: VDI Shank	DIN Number 69880	Through Coolant
Through Coolant: 100 bar	Through Coolant: 1500 psi	Through Coolant: 80 bar	Through Coolant: 1200 psi	ISO: 26622
ISO: 10889	Turning	Profiling	Facing	Face Grooving
Chamfering	Back Boring	Threading	Grooving	Cut-Off
I.D. Turning	I.D. Chamfering	I.D. Facing	I.D. Grooving	I.D. Face Grooving
Deep Grooving	I.D. Internal Threading			

Holemaking Icons

Countersinking/ Stroke Chamfering	Taper Drilling	Counterboring	Drilling	Drilling: Inclined Entry
Drilling: Inclined Exit	Drilling: Exit Offset	Drilling: Flat Bottom	Drilling: Stacked Plates	Drilling: Convex
Drilling: Blind Hole	Drilling: Concave	Drilling: Chain	Drilling: Cross Hole	Drilling: Half Cylinder
Drilling: Corner Drilling 45°	Reaming: Through Hole	Reaming: Blind Hole	Reaming: Through Cross	Reaming: Blind and Cross Holes
Reaming: Interrupted Cut	Drilling Depth: 1 x D	Drilling Depth: 3 x D	Drilling Depth: 5 x D	Drilling Depth: 8 x D
Drilling Depth: 10 x D	Drilling Depth: 12 x D	Drilling Depth: 7 x D	Drilling Depth: 4 x D	Drilling Depth: 1.5 x D

(continued)

(Holemaking Icons — continued)

Corner Style: Corner Chamfer	Corner Style: Square End	Shank: Cylindrical Plain	Shank: Cylindrical Plain ≤h6	Shank: Cylindrical Weldon®
Shank: Cylindrical Whistle Notch	Shank: Cylindrical Whistle Notch 2°	Shank: Cylindrical with Flat	SK Shank: Rübig	Shank: SK BT JIS B 6339
Shank: SK CAT(CV) ANSI B5.50	Shank: SK DV DIN 69871	Shank: Cylindrical Whistle Notch with Drive and Flange	Shank: Cylindrical with Flat and Flange	KM™ Shank
Shank: HSK DIN 69893	Shank: HSK DIN 69893 Form A	Shank: KM-TS™ (ISO 26622)	Shank: KM-XMZ	Shank: ER
Helix Angle: 0°	Helix Angle: 15°	Helix Angle: 30°	Tip Angle: 118°	Tip Angle: 130°
Balance (G 6.3/25,000)	Balance (G 6.3/10,000)	Balance (G 6.3/6,000)	Balance (G 16/20,000)	DIN Number 6537
DIN Number 6535	DIN Number 69893	DIN Number 69090-3	Drilling: No Coolant	Through Coolant: Radial: Drilling
Through Coolant: Radial: Reaming	Through Coolant: Radial: Indexable Drilling	Flood Coolant: Drilling	Through Coolant: MQL (Minimum Quantity Lubricant): Drilling	Through Coolant: Axial: Drilling
Through Coolant: Axial: Reaming	Through Coolant: Coolant Entry AD	Through Coolant: Coolant Entry AD/B	Tool Dimensions: 2 Flute/2 Margin/ Coolant	Tool Dimensions: 2 Flute/2 Margin/ No Coolant
Tool Dimensions: 2 Flute/3 Margin/ Coolant	Tool Dimensions: 2 Flute/4 Margin/ Coolant	Tool Dimensions: 2 Flute/4 Margin/ No Coolant	Tool Dimensions: 2 Flute/4 Margin/ X/Coolant	Tool Dimensions: 3 Flute/3 Margin/ Coolant
Tool Dimensions: 3 Flute/3 Margin/ No Coolant	Tool Dimensions: Flute Configuration: 2	Tool Dimensions: Flute Configuration: 3	Tool Dimensions: Flute Configuration: 4	

Tapping Icons

Countersinking/ Stroke Chamfering	Drilling: Flat Bottom	Drilling: Blind	Tapping: Through Hole	Tapping: Blind Hole
Tapping: Pipe Thread	Threading: Through Hole	HSS: High-Speed Steel	HSS-E: High-Speed Steel with Cobalt Alloy for Materials with Higher Hardness	HSS-E-PM: High-Speed Steel with Cobalt Alloy for Materials with Higher Hardness (PM = Powder Metal Steel)
HM: (Carbide)	Drilling Depth: 2 x D	Chamfer Form (3–4)	Chamfer Form B (3.5–5.5)	Chamfer Form C (2–3)
Chamfer Form D (3.5–5)	Chamfer Form E (1.5–2)	Chamfer Form (3–5)	Chamfer Form (2.5–3.5)	Chamfer Form (1–2)
Tapping Helix Angle: 0°	Tapping Helix Angle: 10°	Tapping Helix Angle: 15°	Tapping Helix Angle: L15°	Tapping Helix Angle: 25°
Tapping Helix Angle: 42°	Tapping Helix Angle: 45°	Multipurpose Taps: Spiral Point	Tension/ Compression	DIN Number 371
DIN Number 374	DIN Number 376	DIN Number 5156	DIN Number 2174	DIN ANSI
Through Coolant: Radial: Tapping	Flood Coolant: Tapping	Through Coolant: Axial: Tapping	Manufacturer's Specs: ISO 2	Manufacturer's Specs: ISO 3
Manufacturer's Specs: JIS	Class of Fit: 2B	Class of Fit: 3B	Class of Fit: 6H	Class of Fit: 6HX
Class of Fit: 6G	Class of Fit: 2BX	Class of Fit: 3BX	Unified Fine Thread	Unified Course Thread
American Tapered Pipe Thread for Threads with Dryseal Material	American Tapered Pipe Thread for Threads without Dryseal Material	American National Standards Institute	American Standard Straight Pipe Thread	American Standard Straight Pipe Thread Dryseal
Whitworth Pipe Thread	Unified Course Thread: J Profile	Unified Fine Thread: J Profile	ISO Metric Coarse Thread	ISO Metric Fine Thread

Solid End Milling Icons

Face Milling	Plunge Milling	Plunge Milling: Ball Nose	Ramping: Blank	Ramping: Up to 2°
Ramping: Up to 3°	Slotting: Ball Nose	Slotting: Ball Nose with AP Dimension	Slotting: Square End	Slotting: Square End with AP Dimension
Trochoidal Milling	Trochoidal Milling: Ball Nose	Side Milling/ Shoulder Milling: Ball Nose	Side Milling/ Shoulder Milling: Ball Nose with AE/AP Dimensions	Side Milling/ Shoulder Milling: Square End
Side Milling/ Shoulder Milling: Square End with AE/AP Dimensions	Side Milling/ Shoulder Milling: Eased Chamfer	Side Milling/ Shoulder Milling: Eased Chamfer with AE/AP Dimensions	Side Milling/ Shoulder Milling: Fine Finishing	Side Milling/ Shoulder Milling: Fine Finishing with AE/AP Dimensions
Side Milling/ Shoulder Milling: Finishing	Side Milling/ Shoulder Milling: Finishing with AE/AP Dimensions	Side Milling/ Shoulder Milling: Thin Wall Solid End Milling	Side Milling/ Shoulder Milling: Radius	Side Milling/ Shoulder Milling: Radius with AE/AP Dimensions
3D Profiling	3D Profiling with AE/AP Dimensions	3D Profiling with Square End Mill	Corner Style: Ball Nose	Corner Style: Corner Chamfer
Corner Style: Corner Radius	Corner Style: Square End	Corner Style: Torus	Corner Style: Taper Ball Nose	Shank: Cylindrical Plain
Shank: Cylindrical Weldon®	Shank: SK BT JIS B 6339	Shank: HSK: CAT: Drawbar Thread: 5/8–11 UNC	Shank: HSK A/ DIN69893	Shank: Safe-Lock™ ≤h6
Shank: Safe-Lock™	Shank: PSC Shank	Duo-Lock™ Connection	Helix Angle: 0°	Helix Angle: 15°
Helix Angle: 20°	Helix Angle: 25°	Helix Angle: 30°	Helix Angle: 35°	Helix Angle: 37°
Helix Angle: 38°	Helix Angle: 40°	Helix Angle: 45°	Helix Angle: 50°	Helix Angle: 43°
Helix Angle: 36°	Helix Angle: 35°/38°	Helix Angle: 37°/39°	Balance (G 2.5/25,000)	Through Coolant

(continued)

(Solid End Milling Icons — continued)

Through Coolant: Axial: Solid End Mill	Tool Dimensions: Flute Configuration: X (Variable)	Tool Dimensions: Flute Configuration: 2	Tool Dimensions: Flute Configuration: 3	Tool Dimensions: Flute Configuration: 4
Tool Dimensions: Flute Configuration: 5	Tool Dimensions: Flute Configuration: 6	Tool Dimensions: Flute Configuration: 12	ISO 26622	

Indexable Milling Icons

Counterboring	Spiral Circular	Drilling	Face Milling	Helical Milling
Plunge Milling	Plunge Milling: Ball Nose	Ramping: Blank	Slotting: Ball Nose	Slotting: Side
Slotting: Side with AE/AP Dimensions	Slotting: Side Milling: Ball Nose	Slotting: Square End	Slotting: T	Slotting: T with AP Dimension
Side Milling/ Shoulder Milling: Ball Nose	Side Milling/ Shoulder Milling: Bottom Shouldering	Side Milling/ Shoulder Milling: Square End	Side Milling/ Shoulder Milling: Eased Chamfer	Slotting: Shoulder Profiling
Slotting: Shoulder	3D Profiling	3D Profiling with Square End Mill	PCD Tool	Pocketing
Shank: Cylindrical Plain	Shank: Cylindrical Weldon®	Shank: Cylindrical Weldon 2 Flat	Shank: Screw-On	SK Shank: R8
Shank: SK BT JIS B 6339	Shank: SK CAT(CV) ANSI B5.50	Shank: HSK DIN 69893	Shell Mill Shank	Milling: Through Coolant
Axial: Nozzle	Through Coolant: Pressurized Air Coolant: Radial: Indexable Milling			

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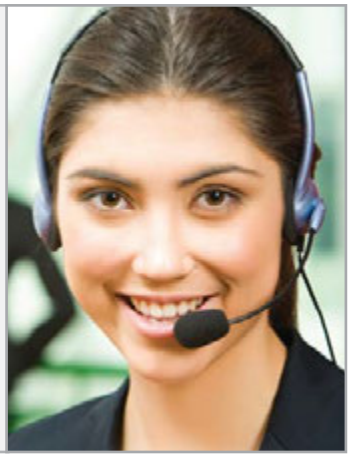

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P Steel
M Stainless Steel
K Cast Iron
N Non-Ferrous
S High-Temp Alloys
H Hardened Materials
C CFRP Materials

material group	description	content	tensile strength RM (MPa)*	hardness (HB)	hardness (HRC)	material number
P0	Low-Carbon Steels, Long Chipping	C <0,25%	<530	<125	–	A36, 1008, 1010, 1018 through 1029; 1108, 1117
P1	Low-Carbon Steels, Short Chipping, Free Machining	C <0,25%	<530	<125	–	10L18, 1200 Series, 1213, 12L14
P2	Medium- and High-Carbon Steels	C >0,25%	>530	<220	<25	1035, 1045, 10L45, 1050, 10L50, 1080, 1137, 1144, 11L44, 1525, 1545, 1572
P3	Alloy Steels and Tool Steels	C >0,25%	600–850	<330	<35	1300, 2000, 3000, 4000, 5000, 8000, P20, SAE: A, D, H, O, S, M, T
P4	Alloy Steels and Tool Steels	C >0,25%	850–1400	340–450	35–48	1300, 2000, 3000, 4000, 5000, 8000, P20, SAE: A, D, H, O, S, M, T
P5	Ferritic, Martensitic, and PH Stainless Steels	–	600–900	<330	<35	15–5 PH, 13–8 PH, 17–4 PH, 400 and 500 Series
P6	High-Strength Ferritic, Martensitic, and PH Stainless Steels	–	900–1350	350–450	35–48	15–5 PH, 13–8 PH, 17–4 PH, 400 and 500 Series
M1	Austenitic Stainless Steel	–	<600	130–200	–	200 Series, 301, 302, 304, 304L, 309
M2	High-Strength Austenitic Stainless and Cast Stainless Steels	–	600–800	150–230	<25	310, 316, 316L, 321, 347, 384 ASTM Cast XM-1, XM-5, XM-7, XM-21
M3	Duplex Stainless Steel	–	<800	135–275	<30	323, 329, F55, 2205, S329000
K1	Gray Cast Iron	–	125–500	120–290	<32	class 20, 25, 30, 35, 40, 45, 50, 55, 60, G1800, G3000, G3500, G4000
K2	Low- and Medium-Strength Ductile Irons (Nodular Irons) and Compacted Graphite Irons (CGI)	–	<600	130–260	<28	60-40-18, 65-45-12, 80-55-06; SAE J434: D4018, D4512, D5506; ASTM A47: Grade 32510, 35018; SAE J158: Grade M3210, M4504, M5003, M5503, M7002; ASTMA842: Grade 250, 300, 350, 400, 450
K3	High-Strength Ductile Irons and Austempered Ductile Iron (ADI)	–	>600	180–350	<43	ASTM A536:100-70-03, 120-90-02, SAE J434: D7003, SAE J158: Grade M8501AST A897: 125-80-10, 150-100-7, 175-125-4, 200-150-1, 230-185
N1	Wrought Aluminum	–	–	–	–	2025, 5050, 7050, 1000, 2017
N2	Low-Silicon Aluminum Alloys and Magnesium Alloys	Si <12,2%	–	–	–	2024, 6061, 7075
N3	High-Silicon Aluminum Alloys and Magnesium Alloys	Si >12,2%	–	–	–	–
N4	Copper-, Brass-, Zinc-Based on Machinability Index Range of 70–100	–	–	–	–	C81500
N5	Nylon, Plastics, Rubbers, Phenolics, Resins, Fiberglass	–	–	–	–	–
N6	Carbon, Graphite Composites, CFRP	–	–	–	–	Graphite, CFK, CFRP
N7	Metal Matrix Composites (MMC)	–	–	–	–	C63000
S1	Iron-Based, Heat-Resistant Alloys	–	500–1200	160–260	25–48	A-286, INCOLOY® 800 Series, A608, A567, Discaloy™, INVAR®, N-155, 16-25-6, 19-9 DL; Cast: ASTM A-297, A-351, A-567, A-608
S2	Cobalt-Based, Heat-Resistant Alloys	–	1000–1450	250–450	25–48	Haynes® 25 (L605), Haynes 188, J-1570, Stellite, AiResist 213; Cast: AiResist 13, Haynes 21, MAR-M302, MAR-M509, NASA Co-W-Re, WI-52
S3	Nickel-Based, Heat-Resistant Alloys	–	600–1700	160–450	<48	Astroloy™, Hastelloy® B/C/ C-276 /X, INCONEL® 600 and 700 Series, IN102, INCOLOY 900 Series, Rene 41, Waspalloy, Monel®, K-500, MAR-M20, NIMONIC®, UDIMET®
S4	Titanium and Titanium Alloys	–	900–1600	300–400	33–48	Pure: Ti 98.8, Ti 98.9,Ti 99.9; Alloyed: Ti 5Al-2.5Sn, Ti6Al-4V, Ti6Al-2Sn-4Zr-2Mo, Ti-3Al-8V-6Cr-4Mo-4Zr, Ti-10V-2Fe-3Al, Ti-13V-11Cr-3Al
H1	Hardened Materials	–	–	–	44–48	Tool Steel H10, H11, H13, D2, D3, 4340, P20
H2	Hardened Materials	–	–	–	48–55	Tool Steel H10, H11, H13, D2, D3, 4340, P20
H3	Hardened Materials	–	–	–	56–60	Tool Steel H10, H11, H13, D2, D3, 4340, P20
H4	Hardened Materials	–	–	–	>60	Tool Steel H10, H11, H13, D2, D3, 4340, P20
C1	CFRP, CFRP/CFRP	–	–	–	–	–
C2	CFRP/Non-Ferrous	–	–	–	–	–
C3	CFRP/High-Temp	–	–	–	–	–
C4	CFRP/Stainless Steel	–	–	–	–	–
C5	CFRP/Non-Ferrous/High-Temp	–	–	–	–	–

P	Steel	N	Non-Ferrous	H	Hardened Materials
M	Stainless Steel	S	High-Temp Alloys	C	CFRP Materials
K	Cast Iron				

material group	description	content	tensile strength RM (MPa)*	hardness (HB)	hardness (HRC)	material number
P0	Low-Carbon Steels, Long Chipping	C <0,25%	<530	<125	–	–
P1	Low-Carbon Steels, Short Chipping, Free Machining	C <0,25%	<530	<125	–	C15, Ck22, ST37-2, S235JR, 9SMnPb28, GS38
P2	Medium- and High-Carbon Steels	C >0,25%	>530	<220	<25	ST52, S355JR, C35, GS60, Cf53
P3	Alloy Steels and Tool Steels	C >0,25%	600–850	<330	<35	16MnCr5, Ck45, 21CrMoV5-7, 38SMn28
P4	Alloy Steels and Tool Steels	C >0,25%	850–1400	340–450	35–48	100Cr6, 30CrNiMo8, 42CrMo4, C70W2, S6525, X120Mn12
P5	Ferritic, Martensitic, and PH Stainless Steels	–	600–900	<330	<35	100Cr6, 30CrNiMo8, 42CrMo4, C70W2, S6525, X120Mn12
P6	High-Strength Ferritic, Martensitic, and PH Stainless Steels	–	900–1350	350–450	35–48	X102CrMo17, G-X120Cr29
M1	Austenitic Stainless Steel	–	<600	130–200	–	X5CrNi 18 10, X2CrNiMo 17 13 2, G-X25CrNiSi18 9, X15CrNiSi 20 12
M2	High-Strength Austenitic Stainless and Cast Stainless Steels	–	600–800	150–230	<25	X2CrNiMo 13 4, X5NiCr 32 21, X5CrNiNb 18 10, G-X15CrNi 25-20
M3	Duplex Stainless Steel	–	<800	135–275	<30	X8CrNiMo27 5, X2CrNiMoN22 5 3, X20CrNiSi25 4, G-X40CrNiSi27 4
K1	Gray Cast Iron	–	125–500	120–290	<32	GG15, GG25, GG30, GG40, GTW40
K2	Low- and Medium-Strength Ductile Irons (Nodular Irons) and Compacted Graphite Irons (CGI)	–	<600	130–260	<28	GGG40, GTS35
K3	High-Strength Ductile Irons and Austempered Ductile Iron (ADI)	–	>600	180–350	<43	GGG60, GTW55, GTS65
N1	Wrought Aluminum	–	–	–	–	AlMg1, Al99.5, AlCuMg1, AlCuBiPb, AlMgSi1, ALMgSiPb
N2	Low-Silicon Aluminum Alloys and Magnesium Alloys	Si <12,2%	–	–	–	GAlSiCu4, GDAlSi10Mg
N3	High-Silicon Aluminum Alloys and Magnesium Alloys	Si >12,2%	–	–	–	G-ALSi12, G-AlSi17Cu4, G-AlSi21CuNiMg
N4	Copper-, Brass-, Zinc-Based on Machinability Index Range of 70–100	–	–	–	–	CuZn40, Ms60, G-CuSn5ZnPb, CuZn37, CuSi3Mn
N5	Nylon, Plastics, Rubbers, Phenolics, Resins, Fiberglass	–	–	–	–	Lexan®, Hostalen™, Polystyrol, Makrolon®
N6	Carbon, Graphite Composites, CFRP	–	–	–	–	CFK, GFK
N7	Metal Matrix Composites (MMC)	–	–	–	–	–
S1	Iron-Based, Heat-Resistant Alloys	–	500–1200	160–260	25–48	X1NiCrMoCu32 28 7, X12NiCrSi36 16, X5NiCrAlTi31 20, X40CoCrNi20 20
S2	Cobalt-Based, Heat-Resistant Alloys	–	1000–1450	250–450	25–48	Haynes® 188, Stellite® 6,21,31
S3	Nickel-Based, Heat-Resistant Alloys	–	600–1700	160–450	<48	INCONEL® 690, INCONEL 625, Hastelloy®, NIMONIC® 75
S4	Titanium and Titanium Alloys	–	900–1600	300–400	33–48	Ti1, TiAl5Sn2, TiAl6V4, TiAl4Mo4Sn2
H1	Hardened Materials	–	–	–	44–48	GX260NiCr42, GX330NiCr42, GX300CrNiSi952, GX300CrMo153, Hardox® 400
H2	Hardened Materials	–	–	–	48–55	–
H3	Hardened Materials	–	–	–	56–60	–
H4	Hardened Materials	–	–	–	>60	–
C1	CFRP, CFRP/CFRP	–	–	–	–	–
C2	CFRP/Non-Ferrous	–	–	–	–	–
C3	CFRP/High Temp	–	–	–	–	–
C4	CFRP/Stainless Steel	–	–	–	–	–
C5	CFRP/Non-Ferrous/High-Temp	–	–	–	–	–

P0 Workpiece Materials Listing • Steel • P0

P0 Low-Carbon Steels, Long Chipping *Content: C <.25%* *Tensile Strength RM (MPa)*: <530* *Hardness (HB): <125*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
1013	USt 34-1	–	–	G10130	–	–	–	1233	–	–	1.0055	–
1010	C 10	045 M 10	S 10 C	G10100	C 10	XC 10	C 10	–	–	–	1.0301	–
1008	DD 11 (StW 22)	HR 3	SPHD	–	DD 11	1 C	–	–	–	–	1.0332	–
1020	C 22	050 A 20	S 22 C	G10200	1 C 22	C 20	C 20	1450	–	–	1.0402	–
1025	C 25	070 M 26	S 22 C	G10250	1 C 25	C 25	C 25	–	–	–	1.0406	–
1012	B 500 H	–	S 12 C	G10120	B 500 B	XC 12	B 500 B	1332	–	–	1.0439	–
1018	C16.8	080 A 17	–	G10180	–	–	–	–	–	–	1.0453	–
1108	10 S 20	210 M 15	–	G 11080	10 S 20	10 F 1	CF 10 S 20	–	–	–	1.0721	–
1010	Ck 10	040 A 10	S 10 C	G10100	2 C 10	XC 10	C 10	1265	–	–	1.1121	–
1022	20 Mn 5	120 M 19	SMn 420	G 10220	20 Mn 5	20 M 5	G 22 Mn 3	–	–	–	1.1133	–
1015	Ck 15	080 M 15	S 15 C	G 10150	2 C 15	XC 15	C 15	1370	–	–	1.1141	–
1021	22 B 2	–	SWRCHB 220	G10210	C 22 BE 69	21 B 3	–	–	–	–	1.5508	–
–	PS 275 TM	S 275 M	–	–	S 275 M	S 275 M	S 275 M	–	–	–	1.8818	–
–	DI-MC 355 B	–	–	–	S 355 M	E 355	S 355 M	–	–	–	1.8823	–
–	DI-MC 420 B	S 420 M	–	–	S 420 M	E 420	S 420 M	–	–	–	1.8825	–
–	S 460 M	S 460 M	–	–	S 460 M	E460; S460M	S460M	–	–	–	1.8827	–
–	BTStE 355 TM	S 355 ML	–	–	S 355 ML	E 355	S 355 ML	–	–	–	1.8834	–
–	BTStE 420 TM	S 420 MI	–	–	S 420 ML	E 420	S 420 ML	–	–	–	1.8836	–
–	St E 320-3Z	–	–	–	S 320 GD + ZA	–	–	–	–	–	1.0250	–

P1 Workpiece Materials Listing • Steel • P1

P1 Low-Carbon Steels, Short Chipping, Free Machining *Content: C <.25%* *Tensile Strength RM (MPa)*: <530* *Hardness (HB): <125*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	R St 34-2/ S 205 G2T	34/20CR	–	K02502	–	–	–	–	–	–	1.0034	–
–	St 33	HR 15	SS 330	K01400	–	A 33	Fe 320	–	–	–	1.0035	–
A 570 Gr. 33	USt 37-2	4360-40 B	SS 34	K 02502	S 235 JR G1	E 24-2	Fe 360 BFU	1311	–	–	1.0036	–
–	St 37-2	HS 37/23	STKR 400	K02702	S 235 JR	E 28-2	Fe 430 C	1412	–	–	1.0037	–
A 570 Gr. 36	R St 37-2/S235 JRG2	4260-40 C	SS 34	K 02502	S235 JR G 2	E 24-2 NE	Fe 360 BFN	1312	–	–	1.0038	–
–	S 235 JRH	S 235 JRH	–	–	S235JRH	E 24-2	S 235 JRH	–	–	–	1.0039	–
–	R St 42-1	–	–	K02507	–	–	–	–	–	–	1.0077	–
–	S235J2G3/Fe 360 D1	S 235 J 2 G 3	–	K01501	S 235 J2 G3	E 24-4	S 235 J2G3	1313	–	–	1.0161	–
–	C 10 Pb	–	–	–	C 10 GPb	–	–	–	–	–	1.0302	–
–	QSt 32-3	–	SWRCH6R	–	CB 4 FF KD	–	CB 4 F U	–	–	–	1.0303	–
–	St 35.8	–	STPT 38	K01201	–	–	–	–	–	–	1.0305	–
–	St 37-2	360	STKM 12 A	K02504	S 235 JR	E 24-2	Fe 360	1412	–	–	1.0308	–
–	C10D	–	SWRM 10	–	C 10 D	FM 10	C 10 D	–	–	–	1.0310	–
–	C12D	–	SWRM 12	–	C 12 D	–	C 12 D	–	–	–	1.0311	–
–	R St 15	FeP05	–	–	Fe P05	FeP05	FeP05	–	–	–	1.0312	–
–	D 6-2	0 1 5 A 03	SWRM 6	G10050	C 4 D	–	3 CD 5	–	–	–	1.0314	–
–	St 37.8	–	STB 35	–	–	–	Fe 37	–	–	–	1.0315	–
–	St 13	CR 3	SPCD	–	–	–	–	–	–	–	1.0333	–
–	D D 13 (StW 24)	H S 3	SPHE	–	D D 13	3C	–	–	–	–	1.0335	–
–	USt 4/DC 04 G	–	–	–	D C 04 G 1	–	–	–	–	–	1.0336	–
–	Ro St 4/DC 04 GT	–	–	–	DC 04 GT	–	–	–	–	–	1.0337	–
–	St 4	DC 04/FeP04	SPCE	–	Fe P04	Fe 14	DC04/FeP04	–	–	–	1.0338	–
–	DC01Cu	–	–	–	DC 01 Cu	–	–	–	–	–	1.0344	–
–	RR St 3	CR 3	SPCD	–	Fe P03	F 13	DC 03/FeP 03	–	–	–	1.0347	–
–	U H I/P 195GH	–	SGV 480	–	P 195 Gh	–	–	–	–	–	1.0348	–
–	St 14 Cu 3	–	–	–	DC 04 Cu	–	–	–	–	–	1.0354	–
–	–	3 CR	–	–	D D 12	D D 12	–	–	–	–	1.0398	–
1015	C 15	080 M 15	S 15 C	G10170	C 15	C 12	C 15	1350	–	–	1.0401	–
–	LSt 45.8	–	–	–	C 16	–	C 16	–	–	–	1.0407	–
–	C15D	–	SWRM 15	–	C 15 D	FM 15	C 15 D	–	–	–	1.0413	–
–	C20D	–	SWRM 20	–	C 20 D	FM 20	C 20 D	–	–	–	1.0414	–
–	C26D	–	SWRH 27	–	C 26 D	FM 26	C 26 D	–	–	–	1.0415	–
–	C18D	–	SWRM 17	–	C 18 D	FM 18	C 18 D	–	–	–	1.0416	–
–	RSt 44-2	440	–	G10160	–	–	–	–	–	–	1.0419	–
–	P265 NB	–	SG 295	–	P 265 NB	BS 2	–	–	–	–	1.0423	–
–	P 265 GH	151-400	SG 30	K02801	P 265 GH	A42CP	P 265 GH	1430	–	–	1.0425	–
–	C 22.3	–	–	–	C 22 G 1	–	–	–	–	–	1.0427	–
–	BSt 420 S	–	–	–	Fe B 400	–	–	–	–	–	1.0428	–
–	C 21	–	SFVC 1	K03504	P 305 GH	–	–	–	–	–	1.0432	–
–	GS-45	A1	SC 450	J03001	GE 230	E23-45M	–	1305	–	–	1.0446	–
–	TStE 275 (S 275 NL)	40EE	–	–	S 275 NL	S 275 NL	S 275 NL	–	–	–	1.0491	–
–	St 42.8	–	STPT 42	–	–	–	Fe 42	–	–	–	1.0498	–
–	S 335 N (StE 355)	50 E	–	–	S 355 N	E 355	S 355 N	2134	–	–	1.0545	–
–	S 355 NL (TStE 355)	50 E E	–	–	S 355 NL	E 355	S 355 N L	2135	–	–	1.0546	–
–	R 7 S 6/C 7 RG 2	–	–	–	C 7 RG 2	–	–	–	–	–	1.0709	–
B1112	9 S 20	220 M 07	SUM 21	G 11120	–	–	CF 9 S 22	–	–	–	1.0711	–
1213	9 SMn 28/11 SMn 30	230 M 07	SUM 22	G 12130	11 SMn 28	S 250	CF 9 SMn 28	1912	–	–	1.0715	–
12L13	9 SMnPb 28	–	SUM 22 L	G 12134	11 SMnPb 28	S 250 Pb	CF 9 SMnPb 28	1914	–	–	1.0718	–
–	15 S 22/15 S 20	En32M	SUM 32	–	15 S 22	–	–	1922	–	–	1.0723	–
–	15 SMn 13	15 SMn 13	–	–	15 SMn 13	15 SMn 13	–	–	–	–	1.0725	–
1215	9 SMn 36/11 S Mn 37	240 M 07	SUM 25	G 12150	11 SMn 37	S 300	CF 9 SMn 36	–	–	–	1.0736	–
12L14	9 SMnPb 36/11 SMnPb 37	–	–	G 12144	11 SMnPb 37	S 300 Pb	CF 9 SMnPb 36	1926	–	–	1.0737	–
–	11 SMnPbTe 37	11 SMn 37	–	–	11 SMn 37	–	–	–	–	–	1.0738	–
–	15 SPb 20/15 SPb 22	–	–	–	15 SPb 22	–	–	–	–	–	1.0753	–
–	36 SMn 14	36SMn14	–	–	36SMn14	36SMn14	–	–	–	–	1.0764	–
–	C10D2	–	–	–	C 10 D 2	FM 10	C 10 D 2	–	–	–	1.1114	–
–	Cq 10 (C 10 C)	–	SWRCH 10 K	–	C 10 KD	–	–	–	–	–	1.1122	–
–	C15D2	–	–	–	C 15 D 2	FM 15	C 15 D 2	–	–	–	1.1126	–
–	C 18D2	–	–	–	C 18 D 2	FM 18	C 18 D 2	–	–	–	1.1129	–

(continued)

P1 Workpiece Materials Listing • Steel • P1 *(continued)*

P1 Low-Carbon Steels, Short Chipping, Free Machining *Content: C <.25%* *Tensile Strength RM (MPa)*: <530* *Hardness (HB): <125*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	GS-16 Mn 5	–	–	–	G 17 Mn 5	G 17 Mn 5	G17Mn5	–	–	–	1.1131	–
–	C20D2	–	–	–	C 20 D 2	FM 20	C20D 2	–	–	–	1.1137	–
–	C26D2	–	–	–	C 26 D 2	FM 26	C26D 2	–	–	–	1.1139	–
–	GC 16 E/GS-Ck 16	–	–	–	GC 16 E	–	–	–	–	–	1.1142	–
–	C 16 E	C 16 E	–	–	C 16 E	XC 18	–	–	–	–	1.1148	–
–	Cm 22	070 M 20	C 22 R (3 C 22)	–	3 C 22	XC 18 u	C 22 R	–	–	–	1.1149	–
–	Ck 22	050 A 20	S 22 C	G10230	2 C 22	XC 25	C 20	–	–	–	1.1151	–
–	Cq 22	–	SWRCH20K	–	C 21 KD	–	CB 20 FF	–	–	–	1.1152	–
–	Ck 25	070 M 26	S 25 C	G10250	2 C 25	XC 25	C 25	–	–	–	1.1158	–
–	C2D1	–	–	–	C 2 D 1	–	C 2 D 1	–	–	–	1.1185	–
–	19 MnVS 6	–	–	–	19 MnVS 6	–	–	–	–	–	1.1301	–
–	PS 275 TM	S 275 M	–	–	S 275 M	S 275 M	S 275 M	–	–	–	1.8818	–
–	DI-MC 355 B	–	–	–	S 355 M	E 355	S 355 M	–	–	–	1.8823	–
–	DI-MC 420 B	S 420 M	–	–	S 420 M	E 420	S 420 M	–	–	–	1.8825	–
–	S 460 M	S 460 M	–	–	S 460 M	E460;S460M	S460M	–	–	–	1.8827	–
–	BTStE 355 TM	S 355 ML	–	–	S 355 ML	E 355	S 355 ML	–	–	–	1.8834	–
–	BTStE 420 TM	S 420 MI	–	–	S 420 ML	E 420	S 420 ML	–	–	–	1.8836	–
–	S 235 J 0 W (Allwesta 360)	S 235 J 0 W	SMA 400 BW	–	S 235 JO W	S 235 J 0 W	–	–	–	–	1.8958	–
–	S 355 J 0 W (Allwesta 510)	WR 50 B	SMA 490 BW	–	S 235 JO W	E24W-3	S 235 JO W	–	–	–	1.8959	–
–	WTSt 37-2/S235JRW	WR 50 B	SMA 41 A	K11538	S 235 JR W	E 24 W-2	–	–	–	–	1.8960	–
–	WTSt 37-3	WR 50 C	SMA 50 A	–	S 235 J2 W	S 235 J 2 W	Fe 360 D FF	–	–	–	1.8961	–
–	USt 42-2	–	SS 41	–	–	HS 18-0-2-10	–	–	–	–	1.0040	–
–	St 37-2	–	–	–	S 235 JRC	E 24-2	S 235 JRC	–	–	–	1.0120	–
–	S 235 JR G1F	–	–	–	S 235 JRG 1 F	–	–	–	–	–	1.0160	–
–	St 12	DC 01/Fe P01	SPCC	–	Fe P01	DC 01/fe P01	DC 01/FeP0 1	–	–	–	1.0330	–
–	GS-38	A1	–	–	GE 200	230-400M	–	1306	–	–	1.0420	–
–	GS-20 Mn 5	–	SMnC 420	H15220	–	–	–	–	–	–	1.1120	–
–	G 20 Mn 5	–	–	–	G 20 Mn 5	–	G 20 Mn 5	–	–	–	1.6220	–

P2 Workpiece Materials Listing • Steel • P2

P2 Medium- and High-Carbon Steels *Content: C >.25%* *Tensile Strength RM (MPa)*: >530* *Hardness (HB): <220 (HRC): <25*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	S 355 JR	En 50 B	SM 490 YA	–	S 1207	E36-2	Fe 510 BFN	–	–	–	1.0045	–
1035	C 35	060 A 35	S 35 C	G 10350	1 C 35	CC 35	C 35	1550	–	–	1.0501	–
1045	GS-C 45	080 M 46	S 45 C	G10450	1 C 45	CC 45	C 45	1650	–	–	1.0503	–
1040	C 40	080 M 40	S 40 C	G 10 400	1 C 40	C 40	C 40	–	–	–	1.0511	–
1046	S 355 K 2 G 4 Cu	–	–	G10460	S 355 K2 G4 Cu	–	–	–	–	–	1.0519	–
1030	C30	080 M 30	SUP 7	G 10 300	1 C 30	C C 32	C 30	–	–	–	1.0528	–
1055	C 55	070 M 55	S 55 C	J05000	1 C 55	C 55	C 55	1655	–	–	1.0535	–
1551	C 50 Pb	–	–	G15510	C 50 G Pb	–	–	–	–	–	1.0542	–
–	GS-60	A3	–	–	GE 300	320-560M	C 45	1606	–	–	1.0558	–
1037	36 Mn4	170 H 36	–	G10370	–	–	–	–	–	–	1.0561	–
–	PSt 52-3 (S 355 J2 G3 F)	–	–	–	S 355 J2 G3 F	–	FE 510 C	–	–	–	1.0572	–
–	S 355 J2H (RoSt 52-3)	50D	–	–	S355J2H	–	S355J2H	–	–	–	1.0576	–
1060	C 60	080 A 62	S 60 C-CSP	G 10600	1 C 60	AF 70 C 55	C 60	–	–	–	1.0601	–
1070	C 67	CS 70	S 70 C -CSP	G10700	1 CS 67	C 68	C 67	–	–	–	1.0603	–
1074	C 75	CS 80	–	G10740	1 CS 75	C 75	C 75	–	–	–	1.0605	–
1059	C58D	–	S 58 C	G10590	C 58 D	FM 58	C 58 D	–	–	–	1.0609	–
1075	C76D	–	–	G10750	C 76 D	FM 76	C 76 D	–	–	–	1.0614	–
1080	C86D	CS 80	–	G10860	C 86 D	FM 86	C 86 D	–	–	–	1.0616	–
1095	C92D	95 CS	–	G10950	C 92 D	–	C 92 D	–	–	–	1.0618	–
1110	U 10 S 10	–	SUM 12	G11100	–	–	–	–	–	–	1.0702	–
11L08	10 SPb 20	–	–	G 11084	10 SPb 20	10 Pb F 2	CF 10 SPb 20	–	–	–	1.0722	–
1140	35 S 20	212 M 36	–	G 11400	35 S 20	35 MF 4	–	1957	–	–	1.0726	–
1146	45 S 20	212 M 44	–	G 11460	45 S 20	45 MF 4	–	1973	–	–	1.0727	–
1151	60 S 20	–	–	G11510	60 S 20	60 MF 4	–	–	–	–	1.0728	–
1141	36 Mn 6	212 M 36	S Mn 443	G 11410	–	–	–	–	–	–	1.1127	–
1039	40 Mn 4	150 M 36	–	G10390	–	35 M 5	–	–	–	–	1.1157	–
1536	34 Mn 5	En15B	SS 55	G15360	–	–	–	–	–	–	1.1166	–
1030	Cq 35	–	F.1133 (C 35 DF)	G 10300	C 35 KD	–	CB 35	–	–	–	1.1172	–
1034	Ck 34	080 M 34	S 34 C	G 10340	2 C 34	–	C 34	–	–	–	1.1173	–
1038 H	Ck 38	–	–	G 10380	–	XF 38	–	–	–	–	1.1176	–
1030	Ck 30	080 M 30	S 30 C	G 10300	2 C 30	XC 32	C 30	–	–	–	1.1178	–
1034	Ck 35	080 M 36	S 35 C	G 10340	2 C 35	XC 38 H1	C 35	1572	–	–	1.1181	–
1035	Cf 35	060 A 35	S 35 C	G 10350	C 35 G	XC 38 TS	C 35	1572	–	–	1.1183	–
1040	Ck 40	080 A 40	S 40 C	G 10400	2 C 40	XC 42 H1	C 40	–	–	–	1.1186	–
1045	Cf 45	060 A 47	S 45 C	G10450	C 45 G	XC 42 TS	C 43	1672	–	–	1.1193	–
1055	Ck 55	070 M 55	S 55 C	G10550	2 C 55	XC 55 H1	C 55	1655	–	–	1.1203	–
1050	Ck 50	080 M 50	S 50 C	G10500	2 C 50	XC 48 H1	C 50	1674	–	–	1.1206	–
1055	Cm 55	070 M 55	–	G 10550	3 C 55	XC 55 H1	C 55 R	–	–	–	1.1209	–
1053	Ck 53	En43C	S 53 C	G 10530	–	–	–	–	–	–	1.1210	–
1050	Cf 53	060 A 57	S 50 C	G 10500	C 53 G	XC 48 TS	C 48	1674	–	–	1.1213	–
1060	Ck 60	060 A 62	S 58 C	G 10640	2 C 60	XC 60	C 60	1678	–	–	1.1221	–
1552	52 Mn 5	–	–	G15520	–	–	–	–	–	–	1.1226	–
1065	FD (Federstahldraht)	095 A 65	–	G10650	C 68 D	–	–	–	–	–	1.1230	–
1070	Ck 67	060 A 67	S 70 C-CSP	G 10700	C 67 S	XC 68	C 70	1770	–	–	1.1231	–
1069	Ck 68	–	–	G10690	C 70 D	–	–	–	–	–	1.1234	–
1080	Ck 75	060 A 78	C 75	G 10800	C 75 S	XC 75	C 75	1774	–	–	1.1248	–
–	Cf 70	–	–	–	C 70 G	XC 70	–	–	–	–	1.1249	–
1090	Ck 85	–	SK 5 -CSP	G 10900	C 85 S	XC 90	C 90	–	–	–	1.1269	–
1085	90 Mn 4	080 A 83	SUP4	G 10850	–	–	–	–	–	–	1.1273	–
1095	Ck 101	060 A 96	SUP_4	G 10950	C 100 S	XC 100	C 100	1870	–	–	1.1274	–
1050	C 50	080 M 50	S 50 C	G 10 500	1 C 50	C 50	C 50	1674	–	–	1.0540	–
–	St 52-3 G	4360-50 B	SM 50 YB	–	S 355 J 2 G 3	E 36-3	Fe 510 B	2132	–	–	1.0570	–
1078	C78D	–	SWRH 77 B	G10780	C 78 D	FM 78	C 78 D	–	–	–	1.0620	–
1035	Cm 35	080 M 36	–	G 10350	3 C 35	38 H1 k	C 35 R	1572-03	–	–	1.1180	–
1566	66 Mn 4	–	–	G15660	–	–	–	–	–	–	1.1260	–
1084	C 85 W	–	SK 5	G10840	C 90 U	Y3 90	–	–	–	–	1.1830	–

NOTE: For legend, see page Y237.

P3 Workpiece Materials Listing • Steel • P3

P3 Alloy Steels and Tool Steels *Content: C >.25%* *Tensile Strength RM (MPa)*: 600–850* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
1330	GS-30 Mn 5	120 M 36	SMn 433 H; SCMn 2	K13300	–	35 M 5	–	1330	–	–	1.1165	–
1330	28 Mn 6	150 M 28	SCMn 1	G 13300	28 Mn 6	35 M 5	C 28 Mn	–	–	–	1.1170	–
1335	36 Mn 5	150 M 36	SMn 438(H)	G13350	–	40 M 5	–	2120	–	–	1.1167	–
1345	StSch 90 C/GP 280 GH	–	–	G13450	GP 280 GH	GP 280 GH	GP 280 GH	–	–	–	1.0625	–
1513	P265	HR 40/30	–	G15130	–	12 M 5	–	–	–	–	1.0424	–
4142	43 CrMo 4	–	–	G41420	–	43 Cr Mo 4	–	–	–	–	1.3563	–
4147	48 CrMo 4	817 M 40	SNC 836	H41470	–	48 CrMo 4	–	–	–	–	1.3565	–
4419	GS-22 Mo 4	243-430	SCPH 11	G44190	G 20 Mo 5	G20Mo5	G 22 Mo 5	–	–	–	1.5419	–
4520	16 Mo 5	1503-245-420	SBC 690	K11522	–	–	16 Mo 5	–	–	–	1.5423	–
5015	15 Cr 3	523 M15	SCr 415 H	G50150	15 Cr 2	12 C 3	–	–	–	–	1.7015	–
5046	44 Cr 2	–	–	H50460	46 Cr 1 KD	44 Cr 2	–	–	–	–	1.3561	–
5115	16 MnCr 5	527 M 17	SCR 415	G 51150	16 MnCr 5 KD	16 MC 5	16 MnCr 5	2173	–	–	1.7131	–
5117	17 Cr 3	17 Cr 3	–	G51170	(15 Cr 2 KD)	18 C 3	–	–	–	–	1.7016	–
5130	28 Cr 4	530 A 30	–	G51300	28 Cr 4	30 CD 4	–	–	–	–	1.7030	–
5140	41 Cr 4	530 M 40	SCr 440 H	G51400	41 Cr 4	42 C 4	41 Cr 4	–	–	–	1.7035	–
5140	42 Cr 4	530 A 40	SCr 440	–	40 NiCrMo 3	42 C 4 TS	40 NiCrMo 3	2245	–	–	1.7045	–
9255	51 Si 7	250 A 53	–	G92550	–	51 S 7	48 Si 7	2090	–	–	1.0903	–
9255	55 Si 7	250 A 53	SKH 1; SKT 4	G92550	55 NiCrMoV 7	55 S 7	55 Si 8	2085	–	–	1.0904	–
9260	60 Si 7	251 A 60	–	G92600	60 Si 7	60 S 7	60 Si 7	–	–	–	1.5027	–
9262	60 SiCr 7	250 A 61	SUP 7	G92620	60 SiCr 8	60 SC 7	60 SiCr 8	–	–	–	1.0961	–
9262	60 SC 7	–	–	G92620	60 SiCr 8	61 SC 7	60 SiCr 8	–	–	–	1.5092	–
9262	60 SiCr 7	–	–	–	60 SiCr 8	–	–	–	–	–	1.7108	–
15B21 H	19 MnB 4	170 H 20	SWRCHB 420	H15211	19 MnB 4	20 MB 5	–	–	–	–	1.5523	–
15B21 H	20 MnB 5	–	SWRCHB 620	–	20 MnB 5	20 MnB 5	20 MnB 5	–	–	–	1.5530	–
50B40	37 CrB 1	120 M 36	SMnC 3 H	H50401	38 Cr 2	–	35 CB 1	–	–	–	1.7007	–
5130 H	34 Cr 4	530 A 32	SCr 430 H	G51300	34 Cr 4 KD	32 C 4	34 Cr 4 KB	–	–	–	1.7033	–
5132 H	37 Cr 4	530 A 36	SCr 435 H	G51320	37 Cr 4	38 C 4	36 CrMn 4	–	–	–	1.7034	–
A 204 Gr. A	15 Mo 3	1501-240	STFA 12	K11820	16 Mo 3	15 D3	16 Mo 3 KW	2912	–	–	1.5415	–
A 350-LF 5	10 Ni 14	503	SL 3 N 26	K31718	12 Ni 14	12Ni14	18 Ni 14 KT	–	–	–	1.5637	–
A 387 Gr. 12 Cl. 2	16 CrMo 4 4	–	–	K11564	–	–	A 18 CrMo 4 5 KW	–	–	–	1.7337	–
A 570 Gr. 36	St 37-3	4360-40 C	–	K01501	S 235 J2 G3	Fe 360 D1(2); E 24-3	Fe 360 D1(2)	1312	–	–	1.0116	–
A 570 Gr. 40	St 44-2	4360-43 B	SM 41 B	K 02502	S 275 JR	E 28-2	Fe 430 BFN	1412	–	–	1.0044	–
A 570 Gr. 50	St 50-2	4360-50 B	SS 50	–	E 295	A 50-2	Fe 490	2172	–	–	1.0050	–
A 573 Gr. 70	St 44-3	4360-43 C	SM 41 B	–	Fe 430 D1(2); S 275 J2 G3 (4)	Fe 430 D1(2); E 28-4	Fe 430 D FF	1414	–	–	1.0144	–
A 633 Gr. C	St E 355	P 355 N	SM 50 YB	K12000	P 355 N	E 355 R/FP	Fe E 355 KG	2132	–	–	1.0562	–
A 633 Gr. E	St E 420	S 420 N	SM 50 C	K02002	FeE 420 KGN	E 420-I	Fe E 420 KG	2143	–	–	1.8902	–
A 633 Gr. E	St E 460	P 460 N	SM 53 B	K02900	P 460 N	E 460-I	Fe E 460 KG	2143	–	–	1.8905	–
A-6	C 67 W	–	–	T30106	–	Y1 70	–	–	–	–	1.1744	–
E 52100	100 Cr 6	535 A 99	SUJ 2	G52986	100 Cr 6	100 C 6	100 Cr 6	2258	–	–	1.3505	–
O 2	90 MnCrV 8	BO 2	–	T31502	90 Mn V 8	90 MV 8	90 MnVCr 8 KU	–	–	–	1.2842	–
P21	90 Cr 3	–	–	T51621	–	–	–	–	–	–	1.2056	–
P3	10 NC 6	–	–	T51603	15 NiCr 6	10 NC 6	–	–	–	–	1.5713	–
P6	15 NiCr 14	–	SNC 22	T51606	–	10 NC 12	–	–	–	–	1.2735	–
T 8	C 80 W2	BW 1B	SKC 3	T12008	–	Y1 80	C 80 KU	–	–	–	1.1625	–
W 108	C 80 W1	–	–	T72301	C 80 U	Y1 90	C 80 KU	1880	–	–	1.1525	–
W 110	C 105 W1	B W 1 A	–	T72301	C 105 U	Y 105	C 100 KU	1880	–	–	1.1545	–
W 112	C 125 W	–	–	–	C 125 U	–	–	–	–	–	1.1563	–
W 112	C 125 W	–	SK 2	T72301	C 120 U	Y2 120	C 120 KU	–	–	–	1.1663	–
W 210	100 V 1	BW 2	SKS 43	T72302	100 V 2	Y1 105 V	102 V 2 KU	–	–	–	1.2833	–
–	St 50-1	–	–	–	–	–	–	–	–	–	1.0052	–
–	S 235 JO/ Fe 360 C	En 40C	–	–	S 235 JO	E24-3	Fe 360 CFN	–	–	–	1.0114	–
–	QSt 37-3	–	SWRCH 12R	–	–	–	–	–	–	–	1.0123	–
–	S 275 J0	En43C; S275J0	–	–	S 275 J0/ Fe 430 C	S 275 J0; E 28-3	S275J0; Fe430CFN	–	–	–	1.0143	–
–	S 275 J2 G4/ Fe 430 D 2	S 275 J2 G4	–	–	S 275 J2 G4	E28-4; S 275 J2 G4	S 275 J2 G4	1414	–	–	1.0145	–
–	Ro St 44-2	43C	–	–	S 275 J0 H	–	S 275 J0 H	–	–	–	1.0149	–
–	St 37.0	–	STPG 38	–	P 235 T1	–	–	–	–	–	1.0254	–
–	C9D	–	SWRM 8	–	C 9 D	FM 9	C 9 D	–	–	–	1.0304	–
–	C7D	C 7 D	SWRM 8	G10060	C 7 D	FM 8	C 7 D	–	–	–	1.0313	–
–	P235 GH	P 235 GH	SPV 50	K02503	P 235 GH	A 37 CP	Fe E 235	1330	–	–	1.0345	–
–	C 25 Pb	–	–	–	C 25 GPb	–	–	–	–	–	1.0411	–
–	L 245 MB	430	–	K03006	L 245 MB	L 245 MB	–	–	–	–	1.0418	–
–	P310 NB	224-410	SG 325	K02100	P280GH	BS 2	P 275 N	2103	–	–	1.0426	–
–	L 290 MB	–	–	–	L290MB	L 290 MB	–	–	–	–	1.0429	–
–	H III/P285NH	–	Sm 38	–	P 285 NH	–	–	–	–	–	1.0435	–
–	P310 NB	224-430	SG 325	K02100	P305GH	P 275 N	P 275 N	2103	–	–	1.0436	–
–	A St 41	P 275 N	STK 400	K02100	S 275 N	BS 3	P 275 N	2103	–	–	1.0437	–
–	B 500 A	–	SD 490	–	B 500 A	–	B 500 A	–	–	–	1.0438	–
–	H IV/P295NH	–	SG 37	K03102	–	–	Fe 460-2 KW	–	–	–	1.0445	–
–	StE 240.7	–	–	–	L 245 NB	L 245 NB	–	–	–	–	1.0457	–
–	TStE 255	–	–	K11535	–	–	–	–	–	–	1.0463	–
–	15 Mn 3 Al	–	–	–	C 14 GAl	–	–	–	–	–	1.0468	–
–	19 Mn 6/P 355 GH	P 355 GH	SGV 46	K03300	P355GH	A 52 CP	Fe E355-2	2101	–	–	1.0473	–
–	17 Mn 4/P 295 GH	224-460B	SG 37	K03501	P 295 GH	A 48 CP	Fe E 295	2102	–	–	1.0481	–
–	19 Mn 5	224-460	SG 37	K 03102	–	A 52 CP; AP; FP	Fe 460- 2 KW	–	–	–	1.0482	–
–	L 290 AG	–	–	–	L290GA	TS E 290	–	–	–	–	1.0483	–
–	L 290 NB	–	–	–	L290NB	L 290 NB	–	–	–	–	1.0484	–
–	21 Mn 6	–	–	K12320	–	–	–	–	–	–	1.0485	–
–	St E 285	P 275 N	SM 41 A	K 01802	P 275 N	P 275 N	Fe E 285 KG	–	–	–	1.0486	–
–	W St E 285	P 275 N	–	K 01802	P 275 NH	P 275 N	Fe E 285 KW	–	–	–	1.0487	–
–	T St E 285	P 275 NL 1	SLA 235 A	K 01803	P 275 NL 1	P 275 NL 1	Fe E 285 KT	–	–	–	1.0488	–
–	H 300/ZSt E 300	H280LA	–	–	H 280 LA	E 280 C	–	–	–	–	1.0489	–
–	S 275 NH	S 275 NH	–	–	S 275 NH	–	S 275 NH	–	–	–	1.0493	–
–	S 275 NLH	S275NLH	–	–	S 275 NLH	–	S275NLH	–	–	–	1.0497	–
–	C 35 Pb/C 35 GPb	–	–	–	C 35 Pb	–	–	–	–	–	1.0502	–
–	St E 315/P 315N	–	SM 50 A	K11506	P 315 N	–	Fe E 315 KG	–	–	–	1.0505	–
–	W St E 315	–	SNC 1	K02404	P 315 NH	–	Fe E 315 KW	2107	–	–	1.0506	–
–	St 55	–	STKM 16A	–	–	–	Fe 540	–	–	–	1.0507	–
–	T St E315	–	SLA 325 A	K02404	P 315 NL	–	–	2106	–	–	1.0508	–
–	C 40 Pb	–	–	–	C 40 G Pb	–	–	–	–	–	1.0512	–
–	C38D	–	SWRH 37	–	C 38 D	FM 38	C 38 D	–	–	–	1.0516	–
–	C48D	–	SWRH 48	–	C 48 D	FM 48	C 48 D	–	–	–	1.0517	–
–	C56D	–	–	–	C 56 D	FM 56	C 56 D	–	–	–	1.0518	–
–	S 355 NH	S 355 NH	–	–	S 355 NH	–	S 355 NH	–	–	–	1.0539	–
–	C42D	–	SWRH 42 B	–	C 42 D	FM 42	C 42 D	–	–	–	1.0541	–
–	S 355 JO H	50 C	–	–	S 355 JO H	–	S 355 JO H	–	–	–	1.0547	–
–	ZStE 340/ H 340	H 320 L A	–	–	H 320 LA	E 315 C	–	–	–	–	1.0548	–
–	S 335 NLH	50 EE	–	–	S 355 N LH	–	S 355 N L H	–	–	–	1.0549	–
–	S 355 JO	En 50 C; S 355 JO	SM 520 M	–	S 355 JO	S 355 JO; E 36-3	S 355 JO; Fe 510 C FN	–	–	–	1.0553	–
–	GS-70	50 C	–	–	S 355 JO C	E 36-3	Fe 510 C	–	–	–	1.0554	–

(continued)

P3 Workpiece Materials Listing • Steel • P3 *(continued)*

P3 Alloy Steels and Tool Steels *Content: C >.25%* *Tensile Strength RM (MPa)*: 600–850* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	ZStE 420/H 420	46/40HR, HS, CS	–	–	H 400 LA	H 400 LA	–	–	–	–	1.0556	–
–	P355 NB	–	SG 365	–	P 355 NB	BS 4	–	–	–	–	1.0557	–
–	W St E 355	P 355 NH	–	K01600	P 355 NH	P 355 NH	Fe E 355 KW	–	–	–	1.0565	–
–	T St E355	P 355 NL1	SLA 37	–	P 355 NL1	P 355 NL1	Fe E 355 KT	–	–	–	1.0566	–
–	P355 QH1	P 355 QH	–	–	P 355 QH	P 355 QH	–	–	–	–	1.0571	–
–	S 355 J 2 G 4	S 355 J 2 G 4	–	–	S 355 J 2 G 4	S 355 J 2 G 4	S 355 J 2 G 4	–	–	–	1.0577	–
–	L 360 MB	–	–	–	L 360 MB	L 360 MB	–	–	–	–	1.0578	–
–	St 52.4	–	STS 49	–	–	–	–	–	–	–	1.0581	–
–	L 360 NB/StE 360.7	–	–	–	L360NB	L 360 NB	–	–	–	–	1.0582	–
–	S 355 J 2 G 3 Cu/St 52-3 Cu3	–	–	–	S 355 J2 G3 Cu + CR	–	–	–	–	–	1.0585	–
–	C50D	–	–	–	C 50 D	FM 50	C 50 D	–	–	–	1.0586	–
–	QSt 52-3 Cu 3	–	–	–	S 355 J2 G3 Cu C	–	–	–	–	–	1.0587	–
–	D 53-2	–	SWRH 52 B	–	C 52 D	FM 52	C 52 D	–	–	–	1.0588	–
–	S 355 J 2 G 4 Cu	–	–	–	S 355 J2 G4 Cu	–	–	–	–	–	1.0592	–
–	S355k2G3/Fe 510 DD1 (MULTIST)	S 355 K 2 G 3	SM 520 C	K02505	S 355 K 2 G 3	E36-4	S 355 K 2 G 3	–	–	–	1.0595	–
–	S355K2G4/Fe 510 DD 2 (MULTIST)	S 355 K 2 G 4	–	–	S 355 K 2 G 4	S 355 K 2 G 4	S 355 K 2 G 4	–	–	–	1.0596	–
–	C62D	–	SWRH 62 B	–	C 62 D	FM 62	C 62 D	–	–	–	1.0611	–
–	C66D	–	–	–	C 66 D	FM 66	C 66 D	–	–	–	1.0612	–
–	C68D	–	SWRH 67 B	–	C 68 D	FM 68	C 68 D	–	–	–	1.0613	–
–	C70D	–	–	–	C 70 D	FM 70	C 70 D	–	–	–	1.0615	–
–	C72D	–	SWRH 72 B	–	C 72 D	FM 72	C 72 D	–	–	–	1.0617	–
–	GS-C 25	–	SCPH 1	–	GP 240 GH	GP 240 GH	GP 240 Gh	–	–	–	1.0619	–
–	C80D	–	–	–	C 80 D	FM 80	C 80 D	–	–	–	1.0622	–
–	C82D	–	SWRH 82 B	–	C 82 D	FM 82	C 82 D	–	–	–	1.0626	–
–	35 SPb 20	35 SPb 20	–	–	35 SPb 20	35 SPb 20	–	–	–	–	1.0756	–
–	45 SPb 20	–	–	–	46 SPb 20	–	–	–	–	–	1.0757	–
–	38 SMnPb 28	38 SMnPb 28	–	–	38 SMnPb 28	38 SMnPb 28	–	–	–	–	1.0761	–
–	44 SMn 28	44 SMn 28	–	–	44 SMn 28	44 SMn 28	–	–	–	–	1.0762	–
–	44 SMnPb 28	44 SMnPb 28	–	–	44 SMnPb 28	44 SMnPb 28	–	–	–	–	1.0763	–
–	36 SMnPb 14	36 SMnPb 14	–	–	36 SMnPb 14	36 SMnPb 14	–	–	–	–	1.0765	–
–	QSt E 690 TM (S 700 MC)	–	–	–	S 700 MC	S 690 MC	S 700 MC	–	–	–	1.0966	–
–	QSt E 260 N 7 S 260 NC	–	AE 275 NC	–	S 260 NC	–	S 260 NCX	–	–	–	1.0971	–
–	QSt E 300 TM/S 315 MC	43 F35 HR, HS, CS	–	–	S 315 MC	E 315 D	S 315 MC	–	–	–	1.0972	–
–	QSt E 300 N 7/ S 315 NC	–	AE 340 NC	–	S 315 NC	–	S 315 NC	–	–	–	1.0973	–
–	QSt E340 TM	HR 40/30	–	–	S 340 MC	E 335 D	–	–	–	–	1.0974	–
–	QSt E340 N	–	–	–	S 340 NC	–	Fe E 355 TD	–	–	–	1.0975	–
–	QSt E 360TM	–	–	–	S 355 MC	E 355 D	Fe E 355 TM	–	–	–	1.0976	–
–	QSt E360 N	–	–	–	S 355 NC	–	Fe E 355 TD	–	–	–	1.0977	–
–	QSt E380 TM	–	–	–	S 380 MC	E 390 D	–	–	–	–	1.0978	–
–	QSt E380 N	–	–	–	S 380 NC	–	Fe E 380 TD	–	–	–	1.0979	–
–	QSt E420 TM	HR 50 F 45	–	–	S 420 MC	E 430 D	Fe E 420 TM	–	–	–	1.0980	–
–	QSt E 420 N	–	–	–	S 420 NC	–	Fe E 420 TD	–	–	–	1.0981	–
–	QSt E 460 TM	50/45 HR	–	–	S 460 MC	E 445 D	–	–	–	–	1.0982	–
–	QSt E 460 N	–	–	–	S 460 NC	–	Fe E 460 TD	–	–	–	1.0983	–
–	QSt E500 TM	–	–	–	S 500 MC	E 490 D	Fe E 490 TM	2662	–	–	1.0984	–
–	QSt E500 N	–	–	–	S 500 NC	–	–	–	–	–	1.0985	–
–	QSt E550 TM	60/55 HS	–	–	S 550 MC	E 560 D	Fe E 560 TM	–	–	–	1.0986	–
–	QSt E550 N	–	–	–	S 550 NC	–	–	–	–	–	1.0987	–
–	EStE 285	P 275 NL 2	STK 400	–	P 275 NL 2	P 275 NL 2	P 275 NL 2	–	–	–	1.1104	–
–	EStE 315	–	–	–	S 315 NL 1	–	–	–	–	–	1.1105	–
–	EStE 355	P 355 NL 2	STK 500	–	P 355 NL 2	P 355 NL 2	P 355 NL 2	–	–	–	1.1106	–
–	C5D2	–	–	–	C 5 D 2	FM 6	C 5 D 2	–	–	–	1.1111	–
–	C8D2	–	–	–	C 8 D 2	FM 8	C 8 D 2	–	–	–	1.1113	–
–	C 10 E W/RSD 11	–	–	–	C 10 EW	–	–	–	–	–	1.1115	–
–	C32D2	–	–	–	C 32 D 2	FM 32	C 32 D 2	–	–	–	1.1143	–
–	C36D2	–	–	–	C 36 D 2	FM 36	C 36 D 2	–	–	–	1.1145	–
–	C40D2	–	–	–	C 40 D 2	FM 40	C 40 D 2	–	–	–	1.1153	–
–	C42D2	–	–	–	C 42 D 2	FM 42	C 42 D 2	–	–	–	1.1154	–
–	C46D2	–	–	–	C 46 D 2	FM 46	C46D 2	–	–	–	1.1162	–
–	C 25 R	C 25 R	–	–	C 25 R	C 25 R	C 25 R	–	–	–	1.1163	–
–	C48D2	–	–	–	C 48 D 2	FM 48	C48 D 2	–	–	–	1.1164	–
–	20 Mn 6	150 M 19	–	–	–	20 M 5	20 Mn 6	–	–	–	1.1169	–
–	C50D2	–	–	–	C 50 D 2	FM 50	C50D 2	–	–	–	1.1171	–
–	C 30 R	C 30 R	C 30 R (3 C 30)	–	C 30 R	C 30 R	C 30 R	–	–	–	1.1179	–
–	C3D1	–	–	–	C 3 D 1	–	C 3 D 1	–	–	–	1.1187	–
–	C40R/Cm 40	C 40 R	–	–	C 40 R	C 40 R	C 40	–	–	–	1.1189	–
–	Ck 45	080 M 46	S 45 C	–	2 C 45	XC 42	C 40	1672	–	–	1.1191	–
–	Cq 45	–	SWRCH45K	–	C 45 KD	–	–	–	–	–	1.1192	–
–	C 45 R	080 M 46	S 50 C	–	C 45 R	XC 48 H1u	C 45 R	1672	–	–	1.1201	–
–	C52D2	–	–	–	C 52 D 2	FM 52	C 52 D 2	–	–	–	1.1202	–
–	C 53 R/Cm 53	–	–	–	C 53 R	–	–	–	–	–	1.1205	–
–	C 10 R	C 10 R	–	–	C 10 R	C 10 R	–	–	–	–	1.1207	–
–	C 16 R	C 16 R	–	–	C 16 R	C 16 R	–	–	–	–	1.1208	–
–	C58D2	–	–	–	C 58 D 2	FM 58	C 58 D 2	–	–	–	1.1212	–
–	C62D2	–	–	–	C 62 D 2	FM 62	C 62 D 2	–	–	–	1.1222	–
–	Cm 60	C 60 R	–	–	3 C 60	C 60 R	C 60 R	–	–	–	1.1223	–
–	C60D2	–	–	–	C 60 D 2	FM 60	C 60 D 2	–	–	–	1.1228	–
–	C68D2	–	–	–	C 68 D 2	FM 68	C 68 D 2	–	–	–	1.1232	–
–	C66D2	–	–	–	C 66 D 2	FM 66	C 66 D 2	–	–	–	1.1236	–
–	C50R	C 50 R	–	–	C 50 R	FM 50	C 50 R	–	–	–	1.1241	–
–	C72D2	–	–	–	C 72 D 2	FM 72	C 72 D 2	–	–	–	1.1242	–
–	C70D2	–	–	–	C 70 D 2	FM 70	C 70 D 2	–	–	–	1.1251	–
–	C78D2	–	–	–	C 78 D 2	FM 78	C 78 D 2	–	–	–	1.1252	–
–	C76D2	–	–	–	C 76 D 2	FM 76	C 76 D 2	–	–	–	1.1253	–
–	C80D2	–	–	–	C 80 D 2	FM 80	C 80 D 2	–	–	–	1.1255	–

NOTE: For legend, see page Y237.

(continued)

P3 Workpiece Materials Listing • Steel • P3 *(continued)*

P3 Alloy Steels and Tool Steels *Content: C >.25%* *Tensile Strength RM (MPa)*: 600–850* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	C82D2	–	–	–	C 82 D 2	FM 82	C 82 D 2	–	–	–	1.1262	–
–	C86D2	–	–	–	C 86 D 2	FM 86	C 86 D 2	–	–	–	1.1265	–
–	C88D2	–	–	–	C 88 D 2	–	C 88 D 2	–	–	–	1.1272	–
–	C92D2	–	–	–	C 92 D 2	–	C 92 D 2	–	–	–	1.1282	–
–	C98D2	–	–	–	C 98 D 2	–	C 98 D 2	–	–	–	1.1283	–
–	46 MnVS 6	–	–	–	46 MnVS 6	–	–	–	–	–	1.1304	–
–	C 90 U	–	–	–	C90U	–	–	–	–	–	1.1535	–
–	85 Cr 1	–	–	–	–	Y1 100 C 2	–	–	–	–	1.2004	–
–	140 Cr 3	–	SKS 8	–	140 Cr 2	Y2 140 C	–	–	–	–	1.2008	–
–	21 MnCr 5	–	SCR 420 H	–	21 MnCr 5	20 NC 5	–	–	–	–	1.2162	–
–	40 CrMnNiMo 8 6 4	–	–	–	40 CrMnNiMo 8-6-4	–	–	–	–	–	1.2738	–
–	16 CrNiMo 6	820A16	–	–	–	16 NCD 6	16NiCrMo6	–	–	–	1.3531	–
–	100 CrMn 7 3	–	–	–	100 CrMnMo 7	100 CD 7	–	–	–	–	1.3536	–
–	100 CrMo 7	–	SUS 4	K19965	100 CrMo 7	100 CD 7	100CrMo7	–	–	–	1.3537	–
–	100 CrMnMo 8	–	–	–	–	100 CrMnMo 8	–	–	–	–	1.3539	–
–	46 Si 7	–	–	–	45 Si	46 S 7	–	–	–	–	1.5024	–
–	55 Si 7	250 A 53	–	G92550	56 Si 7	55 S 7	55 Si 8	2085	–	–	1.5026	–
–	37 MnSi 5	–	–	–	–	38 MS 5	–	F.130.A	–	–	1.5122	–
–	15 MnMoV 4 5	–	–	–	15 MnMoV 4-5	15 MDV 4.05	–	–	–	–	1.5402	–
–	11 MnMo 4 5	–	–	K11123	11 MnMo 45 KE	–	–	–	–	–	1.5425	–
–	13 MnMo 6 5	–	–	K11424	11 MnMo 65 KE	–	–	–	–	–	1.5426	–
–	35 B 2	–	SWRCHB 237	–	C 35 B	35 B 3	–	–	–	–	1.5511	–
–	24 Ni 8	–	SCPL 21	J22501	G 9 Ni 10	22 N 8	G9Ni10	–	–	–	1.5633	–
–	10 NiCr 5 4	10NiCr5-4	–	–	10 NiCr 5-4	10 NiCr 5-4	–	–	–	–	1.5805	–
–	18 MnMoNi 5 5	–	–	–	18 MnMoNi 5-5	–	–	–	–	–	1.6308	–
–	20 MnMoNi 4 5	–	SQV 2 B	K12539	20 MnMoNi 4-5	–	–	–	–	–	1.6311	–
–	15 MnCrMoNiV 5 3	–	–	–	15 MnCrMoNiV 5-3	–	–	–	–	–	1.6920	–
–	17 CrS 3	17 CrS3	–	–	17 CrS 3	17 CrS 3	–	–	–	–	1.7014	–
–	28 CrS 4	–	–	–	28CrS4	28CrS4	–	–	–	–	1.7036	–
–	34 CrS 4	34 CrS 4	–	–	34 CrS 4	34 CrS 4	34 CrS 4	–	–	–	1.7037	–
–	41 CrS 4	41 CrS 4	–	–	41 CrS 4	41 CrS 4	41 CrS 4	2245	–	–	1.7039	–
–	38 Cr 4	–	–	–	38 Cr 4	–	38 Cr 4	–	–	–	1.7043	–
–	16 CrMo 4	18 CrMo4	SCM 418 H	–	18 CrMo 4	15 CD 3.5	18 CrMo 4	–	–	–	1.7242	–
–	12 CrMo 11 10	–	–	–	–	–	–	–	–	–	1.7305	–
–	22 CrMoS 3 5	–	–	–	22 CrMoS 3-5	22 CrMoS 3-5	–	–	–	–	1.7333	–
–	12 CrMo 19 5	3606-625	SCMV 6	K41545	X 12 CrMo 5	Z 10 CD 5.05	16 CrMo 20 5	–	–	–	1.7362	–
–	X 7 CrMo 6 1	B 5	–	S50281	CM 5-IG	–	–	–	–	–	1.7373	–
–	51 CrMoV 4	–	–	–	51 CrMoV 4	51 CDV 4	51 CrMoV 4	–	–	–	1.7701	–
–	21 CrMoV 5 7	–	–	K14073	21 CrmoV 5-7	20 CDV 5.07	–	–	–	–	1.7709	–
–	20 CrMoVTiB 4 10	–	–	–	20 CrMoVTiB 4-10	20 CrMoVTiB 4-10	–	–	–	–	1.7729	–
–	PS 275 TMK	S 275 ML	–	–	S 275 ML	S 275 ML	S 275 ML	–	–	–	1.8819	–
–	S 500 M	–	–	–	S 500 m	–	–	–	–	–	1.8829	–
–	BTStE 460 TM	S 460 ML	–	–	S 460 ML	E 460	S 460 ML	–	–	–	1.8838	–
–	S 500 ML	–	–	–	S 500 ML	–	–	–	–	–	1.8839	–
–	S 275 MH	–	–	–	S 275 MH	–	S 275 MH	–	–	–	1.8843	–
–	S 275 MLH	–	–	–	S 275 MLH	–	S 275 MLH	–	–	–	1.8844	–
–	S 355 MH	–	–	–	S 355 MH	–	S 355 MH	–	–	–	1.8845	–
–	S 355 MLH	–	–	–	S 355 MLH	–	S 355 MLH	–	–	–	1.8846	–
–	S 420 MH	–	–	–	S 420 MH	–	S 420 MH	–	–	–	1.8847	–
–	S 420 MLH	–	–	–	S 420 MLH	–	S 420 MLH	–	–	–	1.8848	–
–	S 460 MH	–	–	–	S 460 MH	–	S 460 MH	–	–	–	1.8849	–
–	StE 460	S 460 N	–	–	S 460 N	E 460	S 460N	–	–	–	1.8901	–
–	TStE 460	S 460 L	–	–	S 460 NL	E460	S 460 NL	–	–	–	1.8903	–
–	S 550 Q	–	–	–	S 550 Q	E 550	S 550 Q	–	–	–	1.8904	–
–	S 460 Q	55 F	–	–	S 460 Q	E 460	S 460 Q	–	–	–	1.8908	–
–	S 420 NL/TStE 420	S 420 NL	STK 540	K02002	S 420 NL	E 420 T-I	Fe E 420 KT	–	–	–	1.8912	–
–	S 620 Q	–	–	–	S 620 Q	E 620	S 620 Q	–	–	–	1.8914	–
–	T St E 460/P460NL1	P 460 NL 1	–	K02900	P 460 NL1	E 460 T-I	Fe E 460 KT	–	–	–	1.8915	–
–	S 460 QL1	55 F	–	–	S 460 QL 1	–	–	–	–	–	1.8916	–
–	T St E 500	–	–	K02001	–	E 500 T-I	–	–	–	–	1.8917	–
–	EStE 460/P460NI2	P 460 NL 2	–	–	P 460 NL 2	P 460 NL 2	P 460 NL 2	–	–	–	1.8918	–
–	EStE 500/S500NL1	–	–	–	S 500 NL 1	–	–	–	–	–	1.8919	–
–	TStE 690 VA/S690G1QL	–	–	–	S 690 G 1 QL	–	–	–	–	–	1.8920	–
–	TStE 690 VB/S690G2QL	–	–	K11646	S 690 G 2 QL	–	–	–	–	–	1.8921	–
–	S 690 G 4 QL/TStE 690 VC	–	–	–	S 690 G 4 QL	–	–	–	–	–	1.8922	–
–	S 590 QL/TStE 590 V	–	–	–	S 590 QL	–	–	–	–	–	1.8923	–
–	S 500 Q (StE 500 V)	–	–	–	S 500 Q	E 500	S 500 Q	2614	–	–	1.8924	–
–	S 890 QL 1 (EStE 90 V)	–	–	–	S 890 QL 1	–	–	–	–	–	1.8925	–
–	S 690 QL (TStE 690 V)	–	SHY 685 NS	–	S 690 QL	–	–	–	–	–	1.8928	–
–	S 690 Q/StE 690 V	–	SHY 685 N	–	S 690 Q	E 690	S 690 Q	–	–	–	1.8931	–
–	WSt E 420/P420NH	S 420 NL	STK 540	K02002	S 420 NL	S 420 NL	Fe E 420 KW	–	–	–	1.8932	–
–	S 960 QL/TStE 960 V	–	–	–	S 960 QL	–	–	–	–	–	1.8933	–
–	WSt E 460/P460NH	P 460 NH	–	K02900	P 460 NH	P 460 NH	Fe E 460 KW	–	–	–	1.8935	–
–	S 960 Q	–	–	–	S 960 Q	E 960 T-II	S 960 Q	–	–	–	1.8941	–
–	S 355 J 0 WP	WR 50 A	–	–	S 355 J0 WP	E 36 W-A3	S 355 J0 WP	–	–	–	1.8945	–
–	S 355 J 2 WP	S 355 J 2 WP	–	–	S 355 J2 WP	E36W-A4	S 355 J2 WP	–	–	–	1.8946	–
–	L 415 QB	–	–	–	L 415 QB	L 415 QB	–	–	–	–	1.8947	–
–	L 360 QB	–	–	–	L 360 QB	L 360 QB	–	–	–	–	1.8948	–
–	L 450 QB	–	–	–	L 450 QB	L 450 QB	–	–	–	–	1.8952	–
–	S 460 NH (FGS 47)	–	–	–	S 460 NH	–	S 460 NH	–	–	–	1.8953	–
–	L 485 QB	–	–	–	L 485 QB	L 485 QB	–	–	–	–	1.8955	–
–	S 460 NLH/FG S 47	–	–	–	S 460 NLH	–	S460NLH	–	–	–	1.8956	–
–	L 555 QB	–	–	–	L 555 QB	L 555 QB	–	–	–	–	1.8957	–
–	9 CrNiCuP 3 2 4	WR 50 A	SPA-H	K11430	–	–	–	–	–	–	1.8962	–
–	WTSt 52-3	WR 50 C	SMA 58 W	K11430	S 355 J 2 G 1 W	E 36 W-A2	–	–	–	–	1.8963	–
–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	–	1.8965	–

(continued)

P3 Workpiece Materials Listing • Steel • P3 *(continued)*

P3 Alloy Steels and Tool Steels *Content: C >.25%* *Tensile Strength RM (MPa)*: 600–850* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	S 355 K 2 G 1 W	S 355 K 2 G 1 W	SMA 490 CW	–	S 355 K2 G1 W	S 355 K2 G1 W	S 355 K 2 G 1 W	–	–	–	1.8966	–
–	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	S 355 K2G2W	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	–	1.8967	–
–	QStE 600 TM/S 600 MC	–	–	–	S 600 MC	E 620 D	S 600 MC	–	–	–	1.8969	–
–	StE 415..7/L 415 NB	–	–	–	L 415 NB	L 415 NB	–	–	–	–	1.8972	–
–	StE 415.7 TM/L 415 MB	–	–	–	L 415 MB	L 415 MB	–	–	–	–	1.8973	–
–	S 700 MC (QStE 690 TM)	–	–	–	S 700 MC	E 690 D	S 700 MC	–	–	–	1.8974	–
–	L 450 MB/StE 445.7 TM	–	–	–	L 450 MB	L 450 MB	–	–	–	–	1.8975	–
–	S 650 MC (QStE 650 TM)	–	–	–	S 650 MC	E 620 D	S 650 MC	–	–	–	1.8976	–
–	L 485 MB/StE 480.7 TM	–	–	–	L 485 MB	L 485 MB	–	–	–	–	1.8977	–
–	StE 550.7 TM/L 555 MB	–	–	–	L 555 MB	L 555 MB	–	–	–	–	1.8978	–
–	St 60-2	4360-55 E	SM 58	–	E 335	A 60-2	Fe 60-2	1650	–	–	1.0060	–
–	St 70-2	E 360	–	–	E 360	A 70-2	Fe 70-2	1655	–	–	1.0070	–
–	C4D	–	–	–	C 4 D	FM 5	C 4 D	–	–	–	1.0300	–
–	C 22 8	–	–	–	P 250 GH	–	–	–	–	–	1.0460	–
–	H 260/ZSt E 260	H 240 LA	–	–	H 240 LA	E 240 C	–	–	–	–	1.0480	–
–	C32D	–	SWRH 32	K02701	C 32 D	FM 32	C 32 D	–	–	–	1.0530	–
–	ZStE 380/H 380	H 360 L A	–	–	H 360 LA	E 355 C	–	–	–	–	1.0550	–
–	C60D	–	–	–	C 60 D	FM 60	C 60 D	–	–	–	1.0610	–
–	38 SMn 28	38 SMn 28	–	–	38 SMn 28	38 SMn 28	–	–	–	–	1.0760	–
–	QSt E 260 TM/5260 MC	–	–	–	S 260 MC	41 S 7	Fe E 275 TM	–	–	–	1.0970	–
–	C3D2	–	–	–	C 3 D 2	FM 5	C 3 D 2	–	–	–	1.1110	–
–	C38D2	–	–	–	C 38 D 2	FM 38	C 38 D 2	–	–	–	1.1150	–
–	C 42 E Al/Ck 42 Al	–	–	–	S 355 G15	–	–	–	–	–	1.1190	–
–	C56D2/D 55-2	–	–	–	C 56 D 2	FM 56	C 56 D 2	–	–	–	1.1220	–
–	C 70 W1	–	–	–	CT 70	C 70 E 2 U	C 70 K U	–	–	–	1.1520	–
–	C 45 W	–	–	–	C 45 U	Y3 42	–	–	–	–	1.1730	–
–	C 60 W	–	SK 7	–	–	Y3 55	–	–	–	–	1.1740	–
–	100 CrMn 6	–	–	K19195	100 CrMn 6	100 CM 6	–	–	–	–	1.3520	–
–	28 B 2	–	SWRCHB 26	–	C 30 B	20 B 3	–	–	–	–	1.5510	–
–	St E 380	–	SM 50 B	–	S 380 N	–	Fe E 390 KG	–	–	–	1.8900	–
–	TStE 380/S380NL	–	–	–	S 380 NL	–	Fe E 390 KT	2117	–	–	1.8910	–
–	S 890 Q	–	–	–	S 890 Q	S 890 Q	S 890 Q	–	–	–	1.8940	–
–	46 Si 7	–	–	–	45 Si	46 S 7	–	–	–	–	1.5024	–
–	55 Si 7	250 A 53	–	G92550	56 Si 7	55 S 7	55 Si 8	2085	–	–	1.5026	–
–	37 MnSi 5	–	–	–	–	38 MS 5	–	F.130.A	–	–	1.5122	–
–	15 MnMoV 4 5	–	–	–	15 MnMoV 4-5	15 MDV 4.05	–	–	–	–	1.5402	–
–	11 MnMo 4 5	–	–	K11123	11 MnMo 45 KE	–	–	–	–	–	1.5425	–
–	13 MnMo 6 5	–	–	K11424	11 MnMo 65 KE	–	–	–	–	–	1.5426	–
–	35 B 2	–	SWRCHB 237	–	C 35 B	35 B 3	–	–	–	–	1.5511	–
–	24 Ni 8	–	SCPL 21	J22501	G 9 Ni 10	22 N 8	G9Ni10	–	–	–	1.5633	–
–	10 NiCr 5 4	10NiCr5-4	–	–	10 NiCr 5-4	10 NiCr 5-4	–	–	–	–	1.5805	–
–	18 MnMoNi 5 5	–	–	–	18 MnMoNi 5-5	–	–	–	–	–	1.6308	–
–	20 MnMoNi 4 5	–	SQV 2 B	K12539	20 MnMoNi 4-5	–	–	–	–	–	1.6311	–
–	15 MnCrMoNiV 5 3	–	–	–	15 MnCrMoNiV 5-3	–	–	–	–	–	1.6920	–
–	17 CrS 3	17 CrS3	–	–	17 CrS 3	17 CrS 3	–	–	–	–	1.7014	–
–	28 CrS 4	–	–	–	28CrS4	28CrS4	–	–	–	–	1.7036	–
–	34 CrS 4	34 CrS 4	–	–	34 CrS 4	34 CrS 4	34 CrS 4	–	–	–	1.7037	–
–	41 CrS 4	41 CrS 4	–	–	41 CrS 4	41 CrS 4	41 CrS 4	2245	–	–	1.7039	–
–	38 Cr 4	–	–	–	38 Cr 4	–	38 Cr 4	–	–	–	1.7043	–
–	16 CrMo 4	18 CrMo4	SCM 418 H	–	18 CrMo 4	15 CD 3.5	18 CrMo 4	–	–	–	1.7242	–
–	12 CrMo 11 10	–	–	–	–	–	–	–	–	–	1.7305	–
–	22 CrMoS 3 5	–	–	–	22 CrMoS 3-5	22 CrMoS 3-5	–	–	–	–	1.7333	–
–	12 CrMo 19 5	3606-625	SCMV 6	K41545	X 12 CrMo 5	Z 10 CD 5.05	16 CrMo 20 5	–	–	–	1.7362	–
–	X 7 CrMo 6 1	B 5	–	S50281	CM 5-IG	–	–	–	–	–	1.7373	–
–	51 CrMoV 4	–	–	–	51 CrMoV 4	51 CDV 4	51 CrMoV 4	–	–	–	1.7701	–
–	21 CrMoV 5 7	–	–	K14073	21 CrmoV 5-7	20 CDV 5.07	–	–	–	–	1.7709	–
–	20 CrMoVTiB 4 10	–	–	–	20 CrMoVTiB 4-10	20 CrMoVTiB 4-10	–	–	–	–	1.7729	–
–	PS 275 TMK	S 275 ML	–	–	S 275 ML	S 275 ML	S 275 ML	–	–	–	1.8819	–
–	S 500 M	–	–	–	S 500 m	–	–	–	–	–	1.8829	–
–	BTStE 460 TM	S 460 ML	–	–	S 460 ML	E 460	S 460 ML	–	–	–	1.8838	–
–	S 500 ML	–	–	–	S 500 ML	–	–	–	–	–	1.8839	–
–	S 275 MH	–	–	–	S 275 MH	–	S 275 MH	–	–	–	1.8843	–
–	S 275 MLH	–	–	–	S 275 MLH	–	S 275 MLH	–	–	–	1.8844	–
–	S 355 MH	–	–	–	S 355 MH	–	S 355 MH	–	–	–	1.8845	–
–	S 355 MLH	–	–	–	S 355 MLH	–	S 355 MLH	–	–	–	1.8846	–
–	S 420 MH	–	–	–	S 420 MH	–	S 420 MH	–	–	–	1.8847	–
–	S 420 MLH	–	–	–	S 420 MLH	–	S 420 MLH	–	–	–	1.8848	–
–	S 460 MH	–	–	–	S 460 MH	–	S 460 MH	–	–	–	1.8849	–
–	StE 460	S 460 N	–	–	S 460 N	E 460	S 460N	–	–	–	1.8901	–
–	TStE 460	S 460 L	–	–	S 460 NL	E460	S 460 NL	–	–	–	1.8903	–
–	S 550 Q	–	–	–	S 550 Q	E 550	S 550 Q	–	–	–	1.8904	–
–	S 460 Q	55 F	–	–	S 460 Q	E 460	S 460 Q	–	–	–	1.8908	–
–	S 420 NL/TStE 420	S 420 NL	STK 540	K02002	S 420 NL	E 420 T-I	Fe E 420 KT	–	–	–	1.8912	–
–	S 620 Q	–	–	–	S 620 Q	E 620	S 620 Q	–	–	–	1.8914	–
–	T St E 460/P460NL1	P 460 NL 1	–	K02900	P 460 NL1	E 460 T-I	Fe E 460 KT	–	–	–	1.8915	–
–	S 460 QL1	55 F	–	–	S 460 QL 1	–	–	–	–	–	1.8916	–
–	T St E 500	–	–	K02001	–	E 500 T-I	–	–	–	–	1.8917	–
–	EStE 460/P460NI2	P 460 NL 2	–	–	P 460 NL 2	P 460 NL 2	P 460 NL 2	–	–	–	1.8918	–
–	EStE 500/S500NL1	–	–	–	S 500 NL 1	–	–	–	–	–	1.8919	–
–	TStE 690 VA/S690G1QL	–	–	–	S 690 G 1 QL	–	–	–	–	–	1.8920	–
–	TStE 690 VB/S690G2QL	–	–	K11646	S 690 G 2 QL	–	–	–	–	–	1.8921	–
–	S 690 G 4 QL/TStE 690 VC	–	–	–	S 690 G 4 QL	–	–	–	–	–	1.8922	–
–	S 590 QL/TStE 590 V	–	–	–	S 590 QL	–	–	–	–	–	1.8923	–
–	S 500 Q (StE 500 V)	–	–	–	S 500 Q	E 500	S 500 Q	2614	–	–	1.8924	–
–	S 890 QL 1 (EStE 90 V)	–	–	–	S 890 QL 1	–	–	–	–	–	1.8925	–
–	S 690 QL (TStE 690 V)	–	SHY 685 NS	–	S 690 QL	–	–	–	–	–	1.8928	–
–	S 690 Q/StE 690 V	–	SHY 685 N	–	S 690 Q	E 690	S 690 Q	–	–	–	1.8931	–

NOTE: For legend, see page Y237.

(continued)

P3 Workpiece Materials Listing • Steel • P3 *(continued)*

P3 Alloy Steels and Tool Steels *Content: C >.25%* *Tensile Strength RM (MPa)*: 600–850* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	WSt E 420/P420NH	S 420 NL	STK 540	K02002	S 420 NL	S 420 NL	Fe E 420 KW	–	–	–	1.8932	–
–	S 960 QL/TStE 960 V	–	–	–	S 960 QL	–	–	–	–	–	1.8933	–
–	WSt E 460/P460NH	P 460 NH	–	K02900	P 460 NH	P 460 NH	Fe E 460 KW	–	–	–	1.8935	–
–	S 960 Q	–	–	–	S 960 Q	E 960 T-II	S 960 Q	–	–	–	1.8941	–
–	S 355 J 0 WP	WR 50 A	–	–	S 355 J0 WP	E 36 W-A3	S 355 J0 WP	–	–	–	1.8945	–
–	S 355 J 2 WP	S 355 J 2 WP	–	–	S 355 J2 WP	E36W-A4	S 355 J2 WP	–	–	–	1.8946	–
–	L 415 QB	–	–	–	L 415 QB	L 415 QB	–	–	–	–	1.8947	–
–	L 360 QB	–	–	–	L 360 QB	L 360 QB	–	–	–	–	1.8948	–
–	L 450 QB	–	–	–	L 450 QB	L 450 QB	–	–	–	–	1.8952	–
–	S 460 NH (FGS 47)	–	–	–	S 460 NH	–	S 460 NH	–	–	–	1.8953	–
–	L 485 QB	–	–	–	L 485 QB	L 485 QB	–	–	–	–	1.8955	–
–	S 460 NLH/FG S 47	–	–	–	S 460 NLH	–	S460NLH	–	–	–	1.8956	–
–	L 555 QB	–	–	–	L 555 QB	L 555 QB	–	–	–	–	1.8957	–
–	9 CrNiCuP 3 2 4	WR 50 A	SPA-H	K11430	–	–	–	–	–	–	1.8962	–
–	WTSt 52-3	WR 50 C	SMA 58 W	K11430	S 355 J 2 G 1 W	E 36 W-A2	–	–	–	–	1.8963	–
–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	–	1.8965	–
–	S 355 K 2 G 1 W	S 355 K 2 G 1 W	SMA 490 CW	–	S 355 K2 G1 W	S 355 K2 G1 W	S 355 K 2 G 1 W	–	–	–	1.8966	–
–	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	S 355 K2G2W	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	–	1.8967	–
–	QStE 600 TM/S 600 MC	–	–	–	S 600 MC	E 620 D	S 600 MC	–	–	–	1.8969	–
–	StE 415..7/L 415 NB	–	–	–	L 415 NB	L 415 NB	–	–	–	–	1.8972	–
–	StE 415.7 TM/L 415 MB	–	–	–	L 415 MB	L 415 MB	–	–	–	–	1.8973	–
–	S 700 MC (QStE 690 TM)	–	–	–	S 700 MC	E 690 D	S 700 MC	–	–	–	1.8974	–
–	L 450 MB/StE 445.7 TM	–	–	–	L 450 MB	L 450 MB	–	–	–	–	1.8975	–
–	S 650 MC (QStE 650 TM)	–	–	–	S 650 MC	E 620 D	S 650 MC	–	–	–	1.8976	–
–	L 485 MB/StE 480.7 TM	–	–	–	L 485 MB	L 485 MB	–	–	–	–	1.8977	–
–	StE 550.7 TM/L 555 MB	–	–	–	L 555 MB	L 555 MB	–	–	–	–	1.8978	–
–	St 60-2	4360-55 E	SM 58	–	E 335	A 60-2	Fe 60-2	1650	–	–	1.0060	–
–	St 70-2	E 360	–	–	E 360	A 70-2	Fe 70-2	1655	–	–	1.0070	–
–	C4D	–	–	–	C 4 D	FM 5	C 4 D	–	–	–	1.0300	–
–	C 22 8	–	–	–	P 250 GH	–	–	–	–	–	1.0460	–
–	H 260/ZSt E 260	H 240 LA	–	–	H 240 LA	E 240 C	–	–	–	–	1.0480	–
–	C32D	–	SWRH 32	K02701	C 32 D	FM 32	C 32 D	–	–	–	1.0530	–
–	ZStE 380/H 380	H 360 L A	–	–	H 360 LA	E 355 C	–	–	–	–	1.0550	–
–	C60D	–	–	–	C 60 D	FM 60	C 60 D	–	–	–	1.0610	–
–	38 SMn 28	38 SMn 28	–	–	38 SMn 28	38 SMn 28	–	–	–	–	1.0760	–
–	QSt E 260 TM/5260 MC	–	–	–	S 260 MC	41 S 7	Fe E 275 TM	–	–	–	1.0970	–
–	C3D2	–	–	–	C 3 D 2	FM 5	C 3 D 2	–	–	–	1.1110	–
–	C38D2	–	–	–	C 38 D 2	FM 38	C 38 D 2	–	–	–	1.1150	–
–	C 42 E Al/Ck 42 Al	–	–	–	S 355 G15	–	–	–	–	–	1.1190	–
–	C56D2/D 55-2	–	–	–	C 56 D 2	FM 56	C 56 D 2	–	–	–	1.1220	–
–	C 70 W1	–	–	–	CT 70	C 70 E 2 U	C 70 K U	–	–	–	1.1520	–
–	C 45 W	–	–	–	C 45 U	Y3 42	–	–	–	–	1.1730	–
–	C 60 W	–	SK 7	–	–	Y3 55	–	–	–	–	1.1740	–
–	100 CrMn 6	–	–	K19195	100 CrMn 6	100 CM 6	–	–	–	–	1.3520	–
–	28 B 2	–	SWRCHB 26	–	C 30 B	20 B 3	–	–	–	–	1.5510	–
–	St E 380	–	SM 50 B	–	S 380 N	–	Fe E 390 KG	–	–	–	1.8900	–
–	TStE 380/S380NL	–	–	–	S 380 NL	–	Fe E 390 KT	2117	–	–	1.8910	–
–	S 890 Q	–	–	–	S 890 Q	S 890 Q	S 890 Q	–	–	–	1.8940	–

P4 Workpiece Materials Listing • Steel • P4

P4 Alloy Steels and Tool Steels *Content: C>.25%* *Tensile Strength RM (MPa)*: 850–1400* *Hardness (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
A 570 Gr. 40	St 44-2	4360-43 B	SM 41 B	K 02502	S 275 JR	E 28-2	Fe 430 BFN	1412	–	–	1.0044	–
–	S 235 J0/Fe 360 C	En 40C	–	–	S 235 J0	E24-3	Fe 360 CFN	–	–	–	1.0114	–
A 570 Gr. 36	St 37-3	4360-40 C	–	K01501	S 235 J2 G3	Fe 360 D1(2); E 24-3	Fe 360 D1(2)	1312	–	–	1.0116	–
–	QSt 37-3	–	SWRCH 12R	–	–	–	–	–	–	–	1.0123	–
–	S 275 J0	En43C; S275J0	–	–	S 275 J0/Fe 430 C	S 275 J0; E 28-3	S275J0; Fe430CFN	–	–	–	1.0143	–
A 573 Gr. 70	St 44-3	4360-43 C	SM 41 B	–	Fe 430 D1(2); S 275 J2 G3 (4)	Fe 430 D1(2); E 28-4	Fe 430 D FF	1414	–	–	1.0144	–
–	S 275 J2 G4/Fe 430 D 2	S 275 J2 G4	–	–	S 275 J2 G4	E28-4; S 275 J2 G4	S 275 J2 G4	1414	–	–	1.0145	–
–	Ro St 44-2	43C	–	–	S 275 J0 H	–	S 275 J0 H	–	–	–	1.0149	–
–	St 37.0	–	STPG 38	–	P 235 T1	–	–	–	–	–	1.0254	–
–	C9D	–	SWRM 8	–	C 9 D	FM 9	C 9 D	–	–	–	1.0304	–
–	C7D	C 7 D	SWRM 8	G10060	C 7 D	FM 8	C 7 D	–	–	–	1.0313	–
–	L 210 GA	–	–	–	L 210 GA	TS E 220 class 2	–	–	–	–	1.0319	–
–	USD 7/C 8 G1 W	–	–	–	C 8 G 1 W	–	–	–	–	–	1.0323	–
–	RSD 7/C8G2W	–	–	–	C 8 G 2 W	–	–	–	–	–	1.0324	–
–	RSD 10 Si/C10WSi	–	–	–	C 10 W Si	–	–	–	–	–	1.0339	–
–	P235 GH	P 235 GH	SPV 50	K02503	P 235 GH	A 37 CP	Fe E 235	1330	–	–	1.0345	–
–	RRSD 10/C10 W	–	–	–	C 10 W	–	–	–	–	–	1.0351	–
–	St 45.8	–	STB 410	K02727	–	–	–	–	–	–	1.0405	–
–	C 25 Pb	–	–	–	C 25 GPb	–	–	–	–	–	1.0411	–
–	L 245 MB	430	–	K03006	L 245 MB	L 245 MB	–	–	–	–	1.0418	–
1513	P265	HR 40/30	–	G15130	–	12 M 5	–	–	–	–	1.0424	–
–	P310 NB	224-410	SG 325	K02100	P280GH	BS 2	P 275 N	2103	–	–	1.0426	–
–	L 290 MB	–	–	–	L290MB	L 290 MB	–	–	–	–	1.0429	–
–	H II/P285NH	–	Sm 38	–	P 285 NH	–	–	–	–	–	1.0435	–
–	P310 NB	224-430	SG 325	K02100	P305GH	P 275 N	P 275 N	2103	–	–	1.0436	–
–	A St 41	P 275 N	STK 400	K02100	S 275 N	BS 3	P 275 N	2103	–	–	1.0437	–
–	B 500 A	–	SD 490	–	B 500 A	–	B 500 A	–	–	–	1.0438	–
–	GS-45	–	SC 450	–	–	–	–	–	–	–	1.0443	–
–	H IV/P295NH	–	SG 37	K03102	–	–	Fe 460-2 KW	–	–	–	1.0445	–

(continued)

P4 Workpiece Materials Listing • Steel • P4 *(continued)*

P4 Alloy Steels and Tool Steels *Content: C>.25%* *Tensile Strength RM (MPa)*: 850–1400* *Hardness (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	StE 240.7	–	–	–	L 245 NB	L 245 NB	–	–	–	–	1.0457	–
–	HIII/L 235 GA	–	–	–	L 235 GA	–	–	–	–	–	1.0458	–
–	L 245 GA/RRStE 240.7	–	–	–	L 245 GA	TS E 250	–	–	–	–	1.0459	–
–	St E255	–	–	K01800	–	–	–	–	–	–	1.0461	–
–	TStE 255	–	–	K11535	–	–	–	–	–	–	1.0463	–
–	15 Mn 3 Al	–	–	–	C 14 GAl	–	–	–	–	–	1.0468	–
–	21 Mn 4	–	–	–	–	–	20 Mn 4	–	–	–	1.0469	–
–	19 Mn 6/P 355 GH	P 355 GH	SGV 46	K03300	P355GH	A 52 CP	Fe E355-2	2101	–	–	1.0473	–
–	17 Mn 4/P 295 GH	224-460B	SG 37	K03501	P 295 GH	A 48 CP	Fe E 295	2102	–	–	1.0481	–
–	19 Mn 5	224-460	SG 37	K 03102	–	A 52 CP; AP; FP	Fe 460- 2 KW	–	–	–	1.0482	–
–	L 290 AG	–	–	–	L290GA	TS E 290	–	–	–	–	1.0483	–
–	L 290 NB	–	–	–	L290NB	L 290 NB	–	–	–	–	1.0484	–
–	21 Mn 6	–	–	K12320	–	–	–	–	–	–	1.0485	–
–	St E 285	P 275 N	SM 41 A	K 01802	P 275 N	P 275 N	Fe E 285 KG	–	–	–	1.0486	–
–	W St E 285	P 275 N	–	K 01802	P 275 NH	P 275 N	Fe E 285 KW	–	–	–	1.0487	–
–	T St E 285	P 275 NL 1	SLA 235 A	K 01803	P 275 NL 1	P 275 NL 1	Fe E 285 KT	–	–	–	1.0488	–
–	H 300/ZSt E 300	H280LA	–	–	H 280 LA	E 280 C	–	–	–	–	1.0489	–
–	S 275 NH	S 275 NH	–	–	S 275 NH	–	S 275 NH	–	–	–	1.0493	–
–	S 275 NLH	S275NLH	–	–	S 275 NLH	–	S275NLH	–	–	–	1.0497	–
–	L 360 GA	–	–	–	L 360 GA	–	–	–	–	–	1.0499	–
–	C 35 Pb/C 35 GPb	–	–	–	C 35 Pb	–	–	–	–	–	1.0502	–
–	St E 315/P 315N	–	SM 50 A	K11506	P 315 N	–	Fe E 315 KG	–	–	–	1.0505	–
–	W St E 315	–	SNC 1	K02404	P 315 NH	–	Fe E 315 KW	2107	–	–	1.0506	–
–	St 55	–	STKM 16A	–	–	–	Fe 540	–	–	–	1.0507	–
–	T St E315	–	SLA 325 A	K02404	P 315 NL	–	–	2106	–	–	1.0508	–
–	C 40 Pb	–	–	–	C 40 G Pb	–	–	–	–	–	1.0512	–
–	C38D	–	SWRH 37	–	C 38 D	FM 38	C 38 D	–	–	–	1.0516	–
–	C48D	–	SWRH 48	–	C 48 D	FM 48	C 48 D	–	–	–	1.0517	–
–	C56D	–	–	–	C 56 D	FM 56	C 56 D	–	–	–	1.0518	–
–	StSch 700 (R 0 700)	–	–	–	R 0700	–	–	–	–	–	1.0521	–
–	StSch800 (R 0 800)	–	–	–	R 0800	–	–	–	–	–	1.0524	–
–	Cf 45 Pb	–	–	–	–	–	C 46	–	–	–	1.0526	–
–	C32D	–	SWRH 32	K02701	C 32 D	FM 32	C 32 D	–	–	–	1.0530	–
–	GL-A 40 (S 390 G 1 S)	–	–	–	S 390 G 1 S	–	–	–	–	–	1.0532	–
–	S 355 NH	S 355 NH	–	–	S 355 NH	–	S 355 NH	–	–	–	1.0539	–
–	C42D	–	SWRH 42 B	–	C 42 D	FM 42	C 42 D	–	–	–	1.0541	–
–	Schienen 60 F(R 0600/ St Sch 60)	–	–	–	R 0600	–	–	–	–	–	1.0544	–
–	S 355 J0 H	50 C	–	–	S 355 J0 H	–	S 355 J0 H	–	–	–	1.0547	–
–	ZStE 340/H 340	H 320 L A	–	–	H 320 LA	E 315 C	–	–	–	–	1.0548	–
–	S 335 NLH	50 EE	–	–	S 355 N LH	–	S 355 N L H	–	–	–	1.0549	–
–	GS-52	A2	–	–	GE 260	–	–	–	–	–	1.0552	–
–	S 355 J0	En 50 C;S 355 J0	SM 520 M	–	S 355 J0	S 355 J0; E 36-3	S 355 J0; Fe 510 C FN	–	–	–	1.0553	–
–	GS-70	50 C	–	–	S 355 J0 C	E 36-3	Fe 510 C	–	–	–	1.0554	–
–	GS-62	–	–	–	S 355 GO 1	–	–	–	–	–	1.0555	–
–	ZStE 420/H 420	46/40HR,HS,CS	–	–	H 400 LA	H 400 LA	–	–	–	–	1.0556	–
–	P355 NB	–	SG 365	–	P 355 NB	BS 4	–	–	–	–	1.0557	–
–	GS-62.3	–	–	–	S 355 GO 2	–	–	–	–	–	1.0559	–
A 633 Gr. C	St E 355	P 355 N	SM 50 YB	K12000	P 355 N	E 355 R/FP	Fe E 355 KG	2132	–	–	1.0562	–
–	N 80	–	–	–	–	–	–	–	–	–	1.0564	–
–	W St E 355	P 355 NH	–	K01600	P 355 NH	P 355 NH	Fe E 355 KW	–	–	–	1.0565	–
–	T St E355	P 355 NL1	SLA 37	–	P 355 NL1	P 355 NL1	Fe E 355 KT	–	–	–	1.0566	–
–	32 Mn 3	–	–	–	–	–	–	–	–	–	1.0567	–
–	P355 QH1	P 355 QH	–	–	P 355 QH	P 355 QH	–	–	–	–	1.0571	–
–	ZStE 460/H 460	–	–	–	–	–	–	–	–	–	1.0574	–
–	S 355 J 2 G 4	S 355 J 2 G 4	–	–	S 355 J 2 G 4	S 355 J 2 G 4	S 355 J 2 G 4	–	–	–	1.0577	–
–	L 360 MB	–	–	–	L 360 MB	L 360 MB	–	–	–	–	1.0578	–
–	St 52.4	–	STS 49	–	–	–	–	–	–	–	1.0581	–
–	L 360 NB/StE 360.7	–	–	–	L360NB	L 360 NB	–	–	–	–	1.0582	–
–	S 355 J 2 G 3 Cu/St 52-3 Cu3	–	–	–	S 355 J2 G3 Cu + CR	–	–	–	–	–	1.0585	–
–	C50D	–	–	–	C 50 D	FM 50	C 50 D	–	–	–	1.0586	–
–	QSt 52-3 Cu 3	–	–	–	S 355 J2 G3 Cu C	–	–	–	–	–	1.0587	–
–	D 53-2	–	SWRH 52 B	–	C 52 D	FM 52	C 52 D	–	–	–	1.0588	–
–	FStE 355 OS 3/S355G03	–	–	K12000	S 355 G03	–	–	–	–	–	1.0591	–
–	S 355 J 2 G 4 Cu	–	–	–	S 355 J2 G4 Cu	–	–	–	–	–	1.0592	–
–	S355k2G3/Fe 510 DD1 (MULTIST)	S 355 K 2 G 3	SM 520 C	K02505	S 355 K 2 G 3	E36-4	S 355 K 2 G 3	–	–	–	1.0595	–
–	S355K2G4/Fe 510 DD 2 (MULTIST)	S 355 K 2 G 4	–	–	S 355 K 2 G 4	S 355 K 2 G 4	S 355 K 2 G 4	–	–	–	1.0596	–
–	C 30 Pb	–	–	–	C 3 0 GPb	–	–	–	–	–	1.0598	–
–	C 60 Pb	–	–	–	C 60 GPb	–	–	–	–	–	1.0602	–
–	C 67 GPb/C 67 Pb	–	–	–	C 67 GPb	–	–	–	–	–	1.0606	–
–	C 75 GPb/C 75 Pb	–	–	–	C 75 GPb	–	–	–	–	–	1.0607	–

NOTE: For legend, see page Y237.

(continued)

P4 Workpiece Materials Listing • Steel • P4 *(continued)*

P4 Alloy Steels and Tool Steels *Content: C>.25%* *Tensile Strength RM (MPa)*: 850–1400* *Hardness (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	C62D	–	SWRH 62 B	–	C 62 D	FM 62	C 62 D	–	–	–	1.0611	–
–	C66D	–	–	–	C 66 D	FM 66	C 66 D	–	–	–	1.0612	–
–	C68D	–	SWRH 67 B	–	C 68 D	FM 68	C 68 D	–	–	–	1.0613	–
–	C70D	–	–	–	C 70 D	FM 70	C 70 D	–	–	–	1.0615	–
–	C72D	–	SWRH 72 B	–	C 72 D	FM 72	C 72 D	–	–	–	1.0617	–
–	GS-C 25	–	SCPH 1	–	GP 240 GH	GP 240 GH	GP 240 Gh	–	–	–	1.0619	–
–	GP 240 GR	–	–	–	GP 240 GR	GP 240 GR	GP 240 GR	–	–	–	1.0621	–
–	C80D	–	–	–	C 80 D	FM 80	C 80 D	–	–	–	1.0622	–
–	StSch 900 A (R 0900)	–	–	–	R 0900	–	–	–	–	–	1.0623	–
–	StSch 900 B (R 0900 Mn)	–	–	–	R 0900 Mn	–	–	–	–	–	1.0624	–
1345	StSch 90 C/GP 280 GH	–	–	G13450	GP 280 GH	GP 280 GH	GP 280 GH	–	–	–	1.0625	–
–	C82D	–	SWRH 82 B	–	C 82 D	FM 82	C 82 D	–	–	–	1.0626	–
–	C88D	–	–	–	C 88 D	–	C 88 D	–	–	–	1.0628	–
–	StSch 1200 (R 1200)	–	–	–	R 1200	–	–	–	–	–	1.0631	–
–	C 61/60 Mn 3	–	–	–	C 61	–	C 61	–	–	–	1.0642	–
–	C 85/85 Mn 3	–	–	–	C 85	–	C 85	–	–	–	1.0647	–
–	35 SPb 20	35 SPb 20	–	–	35 SPb 20	35 SPb 20	–	–	–	–	1.0756	–
–	45 SPb 20	–	–	–	46 SPb 20	–	–	–	–	–	1.0757	–
–	38 SMnPb 28	38 SMnPb 28	–	–	38 SMnPb 28	38 SMnPb 28	–	–	–	–	1.0761	–
–	44 SMn 28	44 SMn 28	–	–	44 SMn 28	44 SMn 28	–	–	–	–	1.0762	–
–	44 SMnPb 28	44 SMnPb 28	–	–	44 SMnPb 28	44 SMnPb 28	–	–	–	–	1.0763	–
–	36 SMnPb 14	36 SMnPb 14	–	–	36 SMnPb 14	36 SMnPb 14	–	–	–	–	1.0765	–
9255	51 Si 7	250 A 53	–	G92550	–	51 S 7	48 Si 7	2090	–	–	1.0903	–
9255	55 Si 7	250 A 53	SKH 1; SKT 4	G92550	55 NiCrMoV 7	55 S 7	55 Si 8	2085	–	–	1.0904	–
–	StSch 1100 (R 1100 Cr)	–	–	–	R 1100 Cr	–	–	–	–	–	1.0915	–
9262	60 SiCr 7	250 A 61	SUP 7	G92620	60 SiCr 8	60 SC 7	60 SiCr 8	–	–	–	1.0961	–
–	QSt E 690 TM (S 700 MC)	–	–	–	S 700 MC	S 690 MC	S 700 MC	–	–	–	1.0966	–
–	QSt E 260 N 7 S 260 NC	–	AE 275 NC	–	S 260 NC	–	S 260 NCX	–	–	–	1.0971	–
–	QSt E 300 TM/S 315 MC	43 F35 HR,HS,CS	–	–	S 315 MC	E 315 D	S 315 MC	–	–	–	1.0972	–
–	QSt E 300 N 7/S 315 NC	–	AE 340 NC	–	S 315 NC	–	S 315 NC	–	–	–	1.0973	–
–	QSt E340 TM	HR 40/30	–	–	S 340 MC	E 335 D	–	–	–	–	1.0974	–
–	QSt E340 N	–	–	–	S 340 NC	–	Fe E 355 TD	–	–	–	1.0975	–
–	QSt E 360TM	–	–	–	S 355 MC	E 355 D	Fe E 355 TM	–	–	–	1.0976	–
–	QSt E360 N	–	–	–	S 355 NC	–	Fe E 355 TD	–	–	–	1.0977	–
–	QSt E380 TM	–	–	–	S 380 MC	E 390 D	–	–	–	–	1.0978	–
–	QSt E380 N	–	–	–	S 380 NC	–	Fe E 380 TD	–	–	–	1.0979	–
–	QSt E420 TM	HR 50 F 45	–	–	S 420 MC	E 430 D	Fe E 420 TM	–	–	–	1.0980	–
–	QSt E 420 N	–	–	–	S 420 NC	–	Fe E 420 TD	–	–	–	1.0981	–
–	QSt E 460 TM	50/45 HR	–	–	S 460 MC	E 445 D	–	–	–	–	1.0982	–
–	QSt E 460 N	–	–	–	S 460 NC	–	Fe E 460 TD	–	–	–	1.0983	–
–	QSt E500 TM	–	–	–	S 500 MC	E 490 D	Fe E 490 TM	2662	–	–	1.0984	–
–	QSt E500 N	–	–	–	S 500 NC	–	–	–	–	–	1.0985	–
–	QSt E550 TM	60/55 HS	–	–	S 550 MC	E 560 D	Fe E 560 TM	–	–	–	1.0986	–
–	QSt E550 N	–	–	–	S 550 NC	–	–	–	–	–	1.0987	–
–	FStE 355 OS 3/S355G04	–	–	–	S 355 G04	–	–	–	–	–	1.1102	–
–	EStE 285	P 275 NL 2	STK 400	–	P 275 NL 2	P 275 NL 2	P 275 NL 2	–	–	–	1.1104	–
–	EStE 315	–	–	–	S 315 NL 1	–	–	–	–	–	1.1105	–
–	EStE 355	P 355 NL 2	STK 500	–	P 355 NL 2	P 355 NL 2	P 355 NL 2	–	–	–	1.1106	–
–	C5D2	–	–	–	C 5 D 2	FM 6	C 5 D 2	–	–	–	1.1111	–
–	USD 5/C 8 E1 W	–	–	–	C 8 E 1 W	–	–	–	–	–	1.1112	–
–	C8D2	–	–	–	C 8 D 2	FM 8	C 8 D 2	–	–	–	1.1113	–
–	C 10 E W/RSD 11	–	–	–	C 10 EW	–	–	–	–	–	1.1115	–
–	USD 6/C 8 E2 W	–	–	–	C 8 E 2 W	–	–	–	–	–	1.1116	–
–	G 24 Mn 4/GS 24 Mn 4	–	–	–	G 24 Mn 4	–	–	–	–	–	1.1136	–
–	C32D2	–	–	–	C 32 D 2	FM 32	C 32 D 2	–	–	–	1.1143	–
–	C36D2	–	–	–	C 36 D 2	FM 36	C 36 D 2	–	–	–	1.1145	–
–	C38D2	–	–	–	C 38 D 2	FM 38	C 38 D 2	–	–	–	1.115	–
–	C 25 R	C 25 R	–	–	C 25 R	C 25 R	C 25 R	–	–	–	1.1163	–
–	C48D2	–	–	–	C 48 D 2	FM 48	C48 D 2	–	–	–	1.1164	–
1330	GS-30 Mn 5	120 M 36	SMn 433 H; SCMn 2	K13300	–	35 M 5	–	1330	–	–	1.1165	–
1335	36 Mn 5	150 M 36	SMn 438(H)	G13350	–	40 M 5	–	2120	–	–	1.1167	–
–	G 40 Mn 5/GS 40 Mn 5	–	–	–	G 40 Mn 5	–	–	–	–	–	1.1168	–
–	20 Mn 6	150 M 19	–	–	–	20 M 5	20 Mn 6	–	–	–	1.1169	–
–	C50D2	–	–	–	C 50 D 2	FM 50	C50D 2	–	–	–	1.1171	–
–	Ck 38 Pb	–	–	–	25 Mn 4	–	–	–	–	–	1.1177	–
–	C 30 R	C 30 R	C 30 R (3 C 30)	–	C 30 R	C 30 R	C 30 R	–	–	–	1.1179	–
–	Ck 35 Pb	–	–	–	S 355 G 13	–	–	–	–	–	1.1182	–
–	Ck 36	–	–	–	S 355 G 14	–	–	–	–	–	1.1184	–
–	C3D1	–	–	–	C 3 D 1	–	C 3 D 1	–	–	–	1.1187	–
–	C40R/Cm 40	C 40 R	–	–	C 40 R	C 40 R	C 40	–	–	–	1.1189	–
–	C52D2	–	–	–	C 52 D 2	FM 52	C 52 D 2	–	–	–	1.1202	–
–	C 53 R/Cm 53	–	–	–	C 53 R	–	–	–	–	–	1.1205	–
–	C 10 R	C 10 R	–	–	C 10 R	C 10 R	–	–	–	–	1.1207	–
–	C 16 R	C 16 R	–	–	C 16 R	C 16 R	–	–	–	–	1.1208	–
–	C58D2	–	–	–	C 58 D 2	FM 58	C 58 D 2	–	–	–	1.1212	–
–	Ck 53 Pb	–	–	–	C 90 S	–	–	–	–	–	1.1217	–
–	C62D2	–	–	–	C 62 D 2	FM 62	C 62 D 2	–	–	–	1.1222	–
–	Cm 60	C 60 R	–	–	3 C 60	C 60 R	C 60 R	–	–	–	1.1223	–
–	C60D2	–	–	–	C 60 D 2	FM 60	C 60 D 2	–	–	–	1.1228	–
–	C68D2	–	–	–	C 68 D 2	FM 68	C 68 D 2	–	–	–	1.1232	–
–	C66D2	–	–	–	C 66 D 2	FM 66	C 66 D 2	–	–	–	1.1236	–
–	C50R	C 50 R	–	–	C 50 R	FM 50	C 50 R	–	–	–	1.1241	–
–	C72D2	–	–	–	C 72 D 2	FM 72	C 72 D 2	–	–	–	1.1242	–
–	C70D2	–	–	–	C 70 D 2	FM 70	C 70 D 2	–	–	–	1.1251	–
–	C78D2	–	–	–	C 78 D 2	FM 78	C 78 D 2	–	–	–	1.1252	–
–	C76D2	–	–	–	C 76 D 2	FM 76	C 76 D 2	–	–	–	1.1253	–
–	C80D2	–	–	–	C 80 D 2	FM 80	C 80 D 2	–	–	–	1.1255	–
–	C82D2	–	–	–	C 82 D 2	FM 82	C 82 D 2	–	–	–	1.1262	–
–	C86D2	–	–	–	C 86 D 2	FM 86	C 86 D 2	–	–	–	1.1265	–
–	C88D2	–	–	–	C 88 D 2	–	C 88 D 2	–	–	–	1.1272	–
–	C92D2	–	–	–	C 92 D 2	–	C 92 D 2	–	–	–	1.1282	–
–	C98D2	–	–	–	C 98 D 2	–	C 98 D 2	–	–	–	1.1283	–
–	46 MnVS 6	–	–	–	46 MnVS 6	–	–	–	–	–	1.1304	–
–	C 90 U	–	–	–	C90U	–	–	–	–	–	1.1535	–
–	C 110 W	–	–	–	C 110 U	–	–	–	–	–	1.1554	–
–	C 120 U	–	–	–	C120U	–	–	–	–	–	1.1555	–
T 8	C 80 W2	BW 1B	SKC 3	T12008	–	Y1 80	C 80 KU	–	–	–	1.1625	–
–	C 105 W2	–	SK 3	–	–	–	–	–	–	–	1.1645	–
–	C 135 W	–	SK 1	–	–	Y2 140	C 140 KU	–	–	–	1.1673	–
A-6	C 67 W	–	–	T30106	–	Y1 70	–	–	–	–	1.1744	–

(continued)

P4 Workpiece Materials Listing • Steel • P4 *(continued)*

P4 Alloy Steels and Tool Steels *Content: C>.25%* *Tensile Strength RM (MPa)*: 850–1400* *Hardness (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	125 Cr 1	–	–	–	125 Cr 2	Y2 120 C	–	–	–	–	1.2002	–
–	85 Cr 1	–	–	–	–	Y1 100 C 2	–	–	–	–	1.2004	–
–	140 Cr 3	–	SKS 8	–	140 Cr 2	Y2 140 C	–	–	–	–	1.2008	–
–	105 Cr 4	–	SKC 11	–	–	–	–	–	–	–	1.2057	–
–	21 MnCr 5	–	SCR 420 H	–	21 MnCr 5	20 NC 5	–	–	–	–	1.2162	–
–	35 CrMo 7	–	–	–	35 CrMo 7	–	–	–	–	–	1.2302	–
–	48 CrMoV 67	–	–	–	–	45 CDV 6	–	–	–	–	1.2323	–
P6	15 NiCr 14	–	SNC 22	T51606	–	10 NC 12	–	–	–	–	1.2735	–
–	40 CrMnNiMo 8 6 4	–	–	–	40 CrMnNiMo 8-6-4	–	–	–	–	–	1.2738	–
–	57 NiCrMoV 7 7	–	–	–	55 NiCrMoV 7	–	–	–	–	–	1.2744	–
–	70 MnMoCr 8	–	–	–	70 MnMoCr 8	–	–	–	–	–	1.2824	–
–	95 MnWCr 5	–	–	–	95 MnWCr 5	–	–	–	–	–	1.2825	–
–	60 MnSi 4	–	–	–	–	60 MSC 4	–	–	–	–	1.2826	–
–	101 Cr 6	–	–	–	–	–	102 Cr 6 KU	–	–	–	1.3514	–
–	16 CrNiMo 6	820A16	–	–	–	16 NCD 6	16NiCrMo6	–	–	–	1.3531	–
–	100 CrMn 7 3	–	–	–	100 CrMnMo 7	100 CD 7	–	–	–	–	1.3536	–
–	100 CrMo 7	–	SUS 4	K19965	100 CrMo 7	100 CD 7	100CrMo7	–	–	–	1.3537	–
–	100 CrMnMo 8	–	–	–	–	100 CrMnMo 8	–	–	–	–	1.3539	–
5046	44 Cr 2	–	–	H50460	46 Cr 1 KD	44 Cr 2	–	–	–	–	1.3561	–
4142	43 CrMo 4	–	–	G41420	–	43 Cr Mo 4	–	–	–	–	1.3563	–
4147	48 CrMo 4	817 M 40	SNC 836	H41470	–	48 CrMo 4	–	–	–	–	1.3565	–
–	46 Si 7	–	–	–	45 Si	46 S 7	–	–	–	–	1.5024	–
9259H	51 Si 7	–	–	–	50 Si 7	–	48 Si 7	2090	–	–	1.5025	–
–	55 Si 7	250 A 53	–	G92550	56 Si 7	55 S 7	55 Si 8	2085	–	–	1.5026	–
9260	60 Si 7	251 A 60	–	G92600	60 Si 7	60 S 7	60 Si 7	–	–	–	1.5027	–
–	65 Si 7	–	SUP 7	–	–	–	–	–	–	–	1.5028	–
–	12 Mn 8	–	–	–	11 Mn 8 KE	–	–	–	–	–	1.5086	–
9262	60 SC 7	–	–	G92620	60 SiCr 8	61 SC 7	60 SiCr 8	–	–	–	1.5092	–
–	37 MnSi 5	–	–	–	–	38 MS 5	–	F.130.A	–	–	1.5122	–
–	50 MnSi 4	–	–	K04800	–	–	–	–	–	–	1.5131	–
–	15 MnMoV 4 5	–	–	–	15 MnMoV 4-5	15 MDV 4.05	–	–	–	–	1.5402	–
A 204 Gr. A	15 Mo 3	1501-240	STFA 12	K11820	16 Mo 3	15 D3	16 Mo 3 KW	2912	–	–	1.5415	–
4419	GS-22 Mo 4	243-430	SCPH 11	G44190	G 20 Mo 5	G20Mo5	G 22 Mo 5	–	–	–	1.5419	–
–	20 MnMo 3 5	–	–	K12121	–	–	–	–	–	–	1.5421	–
–	G 18 Mo 5	–	–	–	G18Mo5	–	G 18 Mo5	–	–	–	1.5422	–
4520	16 Mo 5	1503-245-420	SBC 690	K11522	–	–	16 Mo 5	–	–	–	1.5423	–
–	11 MnMo 4 5	–	–	K11123	11 MnMo 45 KE	–	–	–	–	–	1.5425	–
–	13 MnMo 6 5	–	–	K11424	11 MnMo 65 KE	–	–	–	–	–	1.5426	–
–	13 MnMo 8 5	–	–	K11423	11 MnMo 85 KE	–	–	–	–	–	1.5427	–
–	35 B 2	–	SWRCHB 237	–	C 35 B	35 B 3	–	–	–	–	1.5511	–
15B21 H	19 MnB 4	170 H 20	SWRCHB 420	H15211	19 MnB 4	20 MB 5	–	–	–	–	1.5523	–
15B21 H	20 MnB 5	–	SWRCHB 620	–	20 MnB 5	20 MnB 5	20 MnB 5	–	–	–	1.553	–
–	24 Ni 8	–	SCPL 21	J22501	G 9 Ni 10	22 N 8	G9Ni10	–	–	–	1.5633	–
A 350-LF 5	10 Ni 14	503	SL 3 N 26	K31718	12 Ni 14	12Ni14	18 Ni 14 KT	–	–	–	1.5637	–
P3	10 NC 6	–	–	T51603	15 NiCr 6	10 NC 6	–	–	–	–	1.5713	–
–	10 NiCr 5 4	10NiCr5-4	–	–	10 NiCr 5-4	10 NiCr 5-4	–	–	–	–	1.5805	–
–	18 MnMoNi 5 5	–	–	–	18 MnMoNi 5-5	–	–	–	–	–	1.6308	–
–	20 MnMoNi 4 5	–	SQV 2 B	K12539	20 MnMoNi 4-5	–	–	–	–	–	1.6311	–
–	10 NiMnMo 6 5	–	–	K11160	–	–	–	–	–	–	1.6312	–
–	16 NiCrMO 12 6	–	–	–	–	16 NCD 13	–	–	–	–	1.6782	–
–	15 MnCrMoNiV 5 3	–	–	–	15 MnCrMoNiV 5-3	–	–	–	–	–	1.6920	–
50B40	37 CrB 1	120 M 36	SMnC 3 H	H50401	38 Cr 2	–	35 CB 1	–	–	–	1.7007	–
–	13 Cr 2	–	–	–	–	–	–	–	–	–	1.7012	–
–	17 CrS 3	17 CrS3	–	–	17 CrS 3	17 CrS 3	–	–	–	–	1.7014	–
5015	15 Cr 3	523 M15	SCr 415 H	G50150	15 Cr 2	12 C 3	–	–	–	–	1.7015	–
5117	17 Cr 3	17 Cr 3	–	G51170	(15 Cr 2 KD)	18 C 3	–	–	–	–	1.7016	–
5130 H	34 Cr 4	530 A 32	SCr 430 H	G51300	34 Cr 4 KD	32 C 4	34 Cr 4 KB	–	–	–	1.7033	–
5132 H	37 Cr 4	530 A 36	SCr 435 H	G51320	37 Cr 4	38 C 4	36 CrMn 4	–	–	–	1.7034	–
5140	41 Cr 4	530 M 40	SCr 440 H	G51400	41 Cr 4	42 C 4	41 Cr 4	–	–	–	1.7035	–
–	28 CrS 4	–	–	–	28CrS4	28CrS4	–	–	–	–	1.7036	–
–	34 CrS 4	34 CrS 4	–	–	34 CrS 4	34 CrS 4	34 CrS 4	–	–	–	1.7037	–
–	41 CrS 4	41 CrS 4	–	–	41 CrS 4	41 CrS 4	41 CrS 4	2245	–	–	1.7039	–
–	38 Cr 4	–	–	–	38 Cr 4	–	38 Cr 4	–	–	–	1.7043	–
5140	42 Cr 4	530 A 40	SCr 440	–	40 NiCrMo 3	42 C 4 TS	40 NiCrMo 3	2245	–	–	1.7045	–
–	54 SiCr 6	–	–	–	–	54 SC 6	–	–	–	–	1.7102	–
–	67 SiCr 5	–	–	–	67 SiCr 5	–	67 SiCr 5	–	–	–	1.7103	–
9262	60 SiCr 7	–	–	–	60 SiCr 8	–	–	–	–	–	1.7108	–
–	52 SiCrNi 5	–	–	–	–	52 SCN 5	–	–	–	–	1.7117	–
5115	16 MnCr 5	527 M 17	SCR 415	G 51150	16 MnCr 5 KD	16 MC 5	16 MnCr 5	2173	–	–	1.7131	–
–	49 CrMo 4	–	SCM 445	–	–	–	–	–	–	–	1.7238	–
–	16 CrMo 4	18 CrMo4	SCM 418 H	–	18 CrMo 4	15 CD 3.5	18 CrMo 4	–	–	–	1.7242	–
–	10 CrMo 11	–	–	–	–	12 CD 10	–	–	–	–	1.7276	–
–	16 CrMo 9 3	–	–	–	–	20 CD 8	–	–	–	–	1.7281	–
–	22 CrMoS 3 5	–	–	–	22 CrMoS 3-5	22 CrMoS 3-5	–	–	–	–	1.7333	–
A 387 Gr. 12 Cl. 2	16 CrMo 4 4	–	–	K11564	–	–	A 18 CrMo 4 5 KW	–	–	–	1.7337	–
–	12 CrMo 8 5	–	–	K21509	–	–	–	–	–	–	1.7358	–
–	12 CrMo 19 5	3606-625	SCMV 6	K41545	X 12 CrMo 5	Z 10 CD 5.05	16 CrMo 20 5	–	–	–	1.7362	–
–	X 7 CrMo 6 1	B 5	–	S50281	CM 5-IG	–	–	–	–	–	1.7373	–
–	12 CrMo 9 10	–	–	–	–	12 CrMo 9-10	–	–	–	–	1.7375	–
–	SG-CrMo 9	–	–	S50480	–	–	–	–	–	–	1.7388	–
–	51 CrMoV 4	–	–	–	51 CrMoV 4	51 CDV 4	51 CrMoV 4	–	–	–	1.7701	–
–	21 CrMoV 5 7	–	–	K14073	21 CrmoV 5-7	20 CDV 5.07	–	–	–	–	1.7709	–
–	20 CrMoVTiB 4 10	–	–	–	20 CrMoVTiB 4-10	20 CrMoVTiB 4-10	–	–	–	–	1.7729	–
6150	50 CrV 4	735 A 50	SUP 10	G61500	51 CrV 4	50 CV 4	50 CrV 4	2230	–	–	1.8159	–
–	PS 275 TMK	S 275 ML	–	–	S 275 ML	S 275 ML	S 275 ML	–	–	–	1.8819	–
–	S 355 G1 M	–	–	–	S 355 G 1 M	–	–	–	–	–	1.8822	–
–	BTStE 460 TM	S 460 ML	–	–	S 460 ML	E 460	S 460 ML	–	–	–	1.8838	–
–	S 500 ML	–	–	–	S 500 ML	–	–	–	–	–	1.8839	–

NOTE: For legend, see page Y237.

(continued)

P4 Workpiece Materials Listing • Steel • P4 *(continued)*

P4 Alloy Steels and Tool Steels *Content: C>.25%* *Tensile Strength RM (MPa)*: 850–1400* *Hardness (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	S 275 MH	–	–	–	S 275 MH	–	S 275 MH	–	–	–	1.8843	–
–	S 275 MLH	–	–	–	S 275 MLH	–	S 275 MLH	–	–	–	1.8844	–
–	S 355 MH	–	–	–	S 355 MH	–	S 355 MH	–	–	–	1.8845	–
–	S 355 MLH	–	–	–	S 355 MLH	–	S 355 MLH	–	–	–	1.8846	–
–	S 420 MH	–	–	–	S 420 MH	–	S 420 MH	–	–	–	1.8847	–
–	S 420 MLH	–	–	–	S 420 MLH	–	S 420 MLH	–	–	–	1.8848	–
–	S 460 MH	–	–	–	S 460 MH	–	S 460 MH	–	–	–	1.8849	–
–	S 460 MLH	–	–	–	S 460 MLH	–	S 460 MLH	–	–	–	1.885	–
–	FStE 355 OS 4/ S420G5Q	–	–	–	S 420 G 2	–	–	–	–	–	1.8853	–
–	P 550 QL	–	–	–	P 550 QL	–	–	–	–	–	1.8878	–
–	StE 460	S 460 N	–	–	S 460 N	E 460	S 460N	–	–	–	1.8901	–
A 633 Gr. E	St E 420	S 420 N	SM 50 C	K02002	FeE 420 KGN	E 420-I	Fe E 420 KG	2143	–	–	1.8902	–
–	TStE 460	S 460 L	–	–	S 460 NL	E460	S 460 NL	–	–	–	1.8903	–
–	S 550 Q	–	–	–	S 550 Q	E 550	S 550 Q	–	–	–	1.8904	–
A 633 Gr. E	St E 460	P 460 N	SM 53 B	K02900	P 460 N	E 460-I	Fe E 460 KG	2143	–	–	1.8905	–
–	BGH 8906	55 F	–	–	S 460 QL	S 460 QL	S 460 QL	–	–	–	1.8906	–
–	St E 500	–	SM 58	K02001	–	–	–	–	–	–	1.8907	–
–	S 460 Q	55 F	–	–	S 460 Q	E 460	S 460 Q	–	–	–	1.8908	–
–	S 420 NL/TStE 420	S 420 NL	STK 540	K02002	S 420 NL	E 420 T-I	Fe E 420 KT	–	–	–	1.8912	–
–	EStE 420/ S420NL1	–	STK 540	–	–	–	–	–	–	–	1.8913	–
–	S 620 Q	–	–	–	S 620 Q	E 620	S 620 Q	–	–	–	1.8914	–
–	T St E 460/ P460NL1	P 460 NL 1	–	K02900	P 460 NL1	E 460 T-I	Fe E 460 KT	–	–	–	1.8915	–
–	S 460 QL1	55 F	–	–	S 460 QL 1	–	–	–	–	–	1.8916	–
–	T St E 500	–	–	K02001	–	E 500 T-I	–	–	–	–	1.8917	–
–	EStE 460/ P460Nl2	P 460 NL 2	–	–	P 460 NL 2	P 460 NL 2	P 460 NL 2	–	–	–	1.8918	–
–	EStE 500/ S500NL1	–	–	–	S 500 NL 1	–	–	–	–	–	1.8919	–
–	TStE 690 VB/ S690G2QL	–	–	K11646	S 690 G 2 QL	–	–	–	–	–	1.8921	–
–	S 690 G 4 QL/ TStE 690 VC	–	–	–	S 690 G 4 QL	–	–	–	–	–	1.8922	–
–	S 590 QL/TStE 590 V	–	–	–	S 590 QL	–	–	–	–	–	1.8923	–
–	S 500 Q (StE 500 V)	–	–	–	S 500 Q	E 500	S 500 Q	2614	–	–	1.8924	–
–	S 890 QL 1 (EStE 90 V)	–	–	–	S 890 QL 1	–	–	–	–	–	1.8925	–
–	S 690 QL (TStE 690 V)	–	SHY 685 NS	–	S 690 QL	–	–	–	–	–	1.8928	–
–	TStE 690 VD/ S690G3QL	–	–	–	S 690 G 3 QL	–	–	–	–	–	1.8929	–
–	S 690 Q/StE 690 V	–	SHY 685 N	–	S 690 Q	E 690	S 690 Q	–	–	–	1.8931	–
–	WSt E 420/ P420NH	S 420 NL	STK 540	K02002	S 420 NL	S 420 NL	Fe E 420 KW	–	–	–	1.8932	–
–	S 960 QL/TStE 960 V	–	–	–	S 960 QL	–	–	–	–	–	1.8933	–
–	WSt E 460/ P460NH	P 460 NH	–	K02900	P 460 NH	P 460 NH	Fe E 460 KW	–	–	–	1.8935	–
–	P420 QH	–	–	–	P 420 QH	–	–	–	–	–	1.8936	–
–	TStE 770 V/ S770QL	–	–	–	S 770 QL	–	–	–	–	–	1.8938	–
–	EStE 790 V/ S790QL1	–	–	–	S 790 QL 1	–	–	–	–	–	1.8939	–
–	S 960 Q	–	–	–	S 960 Q	E 960 T-II	S 960 Q	–	–	–	1.8941	–
–	S 550 G 1 QL 1/ EStE 550 VA	–	–	–	S 550 G 1 QL 1	–	–	–	–	–	1.8944	–
–	S 355 J 0 WP	WR 50 A	–	–	S 355 J0 WP	E 36 W-A3	S 355 J0 WP	–	–	–	1.8945	–
–	S 355 J 2 WP	S 355 J 2 WP	–	–	S 355 J2 WP	E36W-A4	S 355 J2 WP	–	–	–	1.8946	–
–	L 415 QB	–	–	–	L 415 QB	L 415 QB	–	–	–	–	1.8947	–
–	L 360 QB	–	–	–	L 360 QB	L 360 QB	–	–	–	–	1.8948	–
–	L 450 QB	–	–	–	L 450 QB	L 450 QB	–	–	–	–	1.8952	–
–	S 460 NH (FGS 47)	–	–	–	S 460 NH	–	S 460 NH	–	–	–	1.8953	–
–	EStE620VA/S 620 G 1 QL 1	–	–	–	S 620 G 1 QL 1	–	–	–	–	–	1.8954	–
–	L 485 QB	–	–	–	L 485 QB	L 485 QB	–	–	–	–	1.8955	–
–	S 460 NLH/FG S 47	–	–	–	S 460 NLH	–	S460NLH	–	–	–	1.8956	–
–	L 555 QB	–	–	–	L 555 QB	L 555 QB	–	–	–	–	1.8957	–
–	9 CrNiCuP 3 2 4	WR 50 A	SPA-H	K11430	–	–	–	–	–	–	1.8962	–
–	WTSt 52-3	WR 50 C	SMA 58 W	K11430	S 355 J 2 G 1 W	E 36 W-A2	–	–	–	–	1.8963	–
–	EStE 690 VA	–	–	–	S 690 G1 QL1	–	–	–	–	–	1.8964	–
–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	–	1.8965	–
–	S 355 K 2 G 1 W	S 355 K 2 G 1 W	SMA 490 CW	–	S 355 K2 G1 W	S 355 K2 G1 W	S 355 K 2 G 1 W	–	–	–	1.8966	–
–	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	S 355 K2G2W	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	–	1.8967	–
–	QStE 600 TM/S 600 MC	–	–	–	S 600 MC	E 620 D	S 600 MC	–	–	–	1.8969	–
–	StE 415..7/L 415 NB	–	–	–	L 415 NB	L 415 NB	–	–	–	–	1.8972	–
–	StE 415.7 TM/L 415 MB	–	–	–	L 415 MB	L 415 MB	–	–	–	–	1.8973	–
–	S 700 MC (QStE 690 TM)	–	–	–	S 700 MC	E 690 D	S 700 MC	–	–	–	1.8974	–
–	L 450 MB/StE 445.7 TM	–	–	–	L 450 MB	L 450 MB	–	–	–	–	1.8975	–
–	S 650 MC (QStE 650 TM)	–	–	–	S 650 MC	E 620 D	S 650 MC	–	–	–	1.8976	–
–	L 485 MB/StE 480.7 TM	–	–	–	L 485 MB	L 485 MB	–	–	–	–	1.8977	–
–	StE 550.7 TM/L 555 MB	–	–	–	L 555 MB	L 555 MB	–	–	–	–	1.8978	–

(continued)

P4 Workpiece Materials Listing • Steel • P4 *(continued)*

P4 Alloy Steels and Tool Steels *Content: C>.25%* *Tensile Strength RM (MPa)*: 850–1400* *Hardness (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
A 570 Gr. 50	St 50-2	4360-50 B	SS 50	–	E 295	A 50-2	Fe 490	2172	–	–	1.0050	–
–	St 60-2	4360-55 E	SM 58	–	E 335	A 60-2	Fe 60-2	1650	–	–	1.0060	–
–	St 70-2	E 360	–	–	E 360	A 70-2	Fe 70-2	1655	–	–	1.0070	–
–	C4D	–	–	–	C 4 D	FM 5	C 4 D	–	–	–	1.0300	–
–	C 22 8	–	–	–	P 250 GH	–	–	–	–	–	1.0460	–
–	H 260/ZSt E 260	H 240 LA	–	–	H 240 LA	E 240 C	–	–	–	–	1.0480	–
–	ZStE 380/H 380	H 360 L A	–	–	H 360 LA	E 355 C	–	–	–	–	1.0550	–
–	GL-E - 40 (S 390 G 3 S)	–	–	–	S 390 G 3 S	–	–	–	–	–	1.0560	–
–	C60D	–	–	–	C 60 D	FM 60	C 60 D	–	–	–	1.0610	–
–	C 64/64 Mn 3	–	–	–	C 64	–	–	–	–	–	1.0640	–
–	38 SMn 28	38 SMn 28	–	–	38 SMn 28	38 SMn 28	–	–	–	–	1.0760	–
–	QSt E 260 TM/5260 MC	–	–	–	S 260 MC	41 S 7	Fe E 275 TM	–	–	–	1.0970	–
–	C3D2	–	–	–	C 3 D 2	FM 5	C 3 D 2	–	–	–	1.1110	–
1330	28 Mn 6	150 M 28	SCMn 1	G 13300	28 Mn 6	35 M 5	C 28 Mn	–	–	–	1.1170	–
–	C 42 E Al/Ck 42 Al	–	–	–	S 355 G15	–	–	–	–	–	1.1190	–
–	C56D2/D 55-2	–	–	–	C 56 D 2	FM 56	C 56 D 2	–	–	–	1.1220	–
–	C 70 W1	–	–	–	CT 70	C 70 E 2 U	C 70 K U	–	–	–	1.1520	–
–	C 70 W2	–	–	–	C 70 U	–	–	–	–	–	1.1620	–
–	C 45 W	–	–	–	C 45 U	Y3 42	–	–	–	–	1.1730	–
–	C 60 W	–	SK 7	–	–	Y3 55	–	–	–	–	1.1740	–
–	100 CrMn 6	–	–	K19195	100 CrMn 6	100 CM 6	–	–	–	–	1.3520	–
–	28 B 2	–	SWRCHB 26	–	C 30 B	20 B 3	–	–	–	–	1.5510	–
5130	28 Cr 4	530 A 30	–	G51300	28 Cr 4	30 CD 4	–	–	–	–	1.7030	–
–	S 420 G1 M	–	–	–	P 550 M	–	–	–	–	–	1.8830	–
–	St E 380	–	SM 50 B	–	S 380 N	–	Fe E 390 KG	–	–	–	1.8900	–
–	TStE 380/ S380NL	–	–	–	S 380 NL	–	Fe E 390 KT	2117	–	–	1.8910	–
–	TStE 690 VA/ S690G1QL	–	–	–	S 690 G 1 QL	–	–	–	–	–	1.8920	–
–	WSt E 380/ P380Nh	–	–	–	P 380 NH	–	Fe E 390 KW	2116	–	–	1.8930	–
–	S 890 Q	–	–	–	S 890 Q	S 890 Q	S 890 Q	–	–	–	1.8940	–

P5 Workpiece Materials Listing • Steel • P5

P5 Ferritic, Martensitic, and PH Stainless Steels *Tensile Strength RM (MPa)*: 600–900* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
410 S	X 7 Cr 14	–	–	–	–	–	–	–	–	–	1.4001	–
405	X 6 CrAl 13	405 S 17	SUS 405	S40500	X 6 CrAl 13	Z 6 CA 13	X 6 CrAl 13	2302	–	–	1.4002	–
–	X 2 CrNi 1 2	–	–	–	Hyfab3/12	CLC4003	F12N(Mn<1,50)	–	–	–	1.4003	–
416	X 12CrS 13	416 S 21	SUS416	S41600	X 12 CrS 13	Z 12 CF 13	X12CrS13	2380	–	–	1.4005	ATI 416™
410	X 12Cr 13	410 S 21	SUS410	S 41000	(X 12 Cr 13 KD)	Z 12 C 13	X12Cr13	2302	–	–	1.4006	ATI 410™
414	GX 8 CrNi 1 3	410 C 21	SCS 1	S41400	GX 7 CrNiMo 12-1	Z 12 CN 13 M	GX 12 Cr 13	–	–	–	1.4008	–
–	X 8 Cr 14	–	SUS Y 410	S41080	X 8 Cr 13 KE	–	–	–	–	–	1.4009	B13Fe
–	GX 12 Cr 1 2	–	–	–	GX12Cr12	GX12Cr12	–	–	–	–	1.4011	–
–	N 3 2 0 (LW)	–	–	–	3S62	–	–	–	–	–	1.4014	–
–	X 8 Cr 18	–	SUS Y 430	S43080	–	–	–	–	–	–	1.4015	B17Fe
430	X 8 Cr 17	430 S 15	SUS430	S 43000	X 8 Cr 17	Z8C17	X8Cr17	2320	–	–	1.4016	ATI 430™
–	X 6 CrNi 17 1	–	–	–	X6CrNi17-1	F17N	X6CrNi17-1	–	–	–	1.4017	–
420	X20Cr13	420 S 37	SUS 420J1	S42000	X 20 Cr 13	Z20C13	X20Cr13	2303	–	–	1.4021	ATI 420™
403	X 15 Cr 13	420 S 29	SUS 410 J1	J91201	X 15 Cr 13	Z 12 C 13 M	X 12 Cr 13	2301	–	A403M	1.4024	ATI 403™
–	GX 20 Cr 1 4	420 C 29	SCS 2	–	–	Z 20 C 13 M	–	–	–	A743-4	1.4027	–
420	X 40 Cr 13	–	SUS 420 J2	S42080	X 40 Cr 13	Z 40 C 14	X 40 Cr 14	2304	–	–	1.4031	–
–	GX 120 Cr 29	425 C 11	–	–	–	–	–	–	–	F30C	1.4086	–
430 F	X 12 CrMoS 17	441 S 29	SUS 430 F	S 43020	X 14 CrMoS 17	Z 10 CF 17	X 10 CrS 17	2383	–	–	1.4104	–
430	X 4 CrMoS 18	–	SUS 430F	–	X 6 CrMoS 17	Z 6 CDF 18 - 02	–	–	–	–	1.4105	–
–	X 2 CrMoSiS 18 2 1	–	–	J91151	–	–	–	–	–	CA15	1.4106	–
–	GX 8 CrNi 1 2	–	–	–	GX 8 CrNi 12	GX8CrNi 12	G X 8 CrNi 12	–	–	–	1.4107	–
434	X 6CrMo 17	434 S 17	SUS434	S43400	434S17	Z8CD17-01	X8CrMo17	2325	–	–	1.4113	AL 434
–	X 15 CrMo 13	–	–	–	–	–	–	–	–	–	1.4119	–
–	GX 70 CrMo 29 2	–	–	–	–	Z 60 CD 29.2 M	–	–	–	–	1.4136	–
–	X 2 CrNi 24 12	309 S 93	–	–	X 2 CrNi 24 13 KE	Z 2 CN 24-14	–	–	–	–	1.4332	CN23/12-IG
–	X 5 NiCr 32 21	–	–	S33200	–	–	–	–	–	B536	1.4333	H521
–	GX 5 CrNiMo 16 5	–	–	–	GX 4 CrNiMo 16-5-1	GX4CrNiMo 16-5-1	G X 4 CrNiMo 16-5-1	–	–	–	1.4405	–
–	ERO 4411 A	–	–	–	GX 4 CrNiMo 16-5-2	GX 4 CrNiMo 16-5-2	–	–	–	–	1.4411	–
–	X 38 CrMo 14	–	–	–	–	–	–	–	–	–	1.4419	–
–	X 8 CrTi 18	–	–	–	X 6 Cr 18 KE	–	–	–	–	–	1.4502	–
430 Nb	X 6 CrNb 17	–	SUS 430 LX	–	X 3 CrNb 17	Z 8 CNb 17	X 6 CrNb 17	–	–	–	1.4511	AXC525
409	X 6 CrTi 12	409 S 19	SUH 409	S40900	X 5 CrTi 12	Z 6 CT 12	X 6 CrTi 12	–	–	–	1.4512	–
–	X 6 CrNiTi 12	–	–	–	X 6 CrNiTi 12	X 6 CrNiTi 12	X 6 CrNiTi 12	–	–	–	1.4516	–
–	X 2 CrTi 17	–	SUS 430 LX	–	X 2 CrTi 17	F 20T	X 2 CrTi 17	–	–	–	1.4520	–
–	X 8 CrMoTi 17	–	–	–	X 2 CrMoTiS 18 2	X2CrMoTiS18-2	–	–	–	–	1.4523	1802
–	GX 5 CrNiCu 16 4	–	–	–	GX 5 CrNiCu 16-4	GX 5 CrNiCu 16-4	–	–	–	–	1.4525	–
–	X 6 CrMoNb 17 1	–	–	–	X 6 CrMoNb 17-1	X6CrMoNb 17-1	F 17 MNb	–	–	–	1.4526	–
904 L	X 1 NiCrMoCuN 25 20 5	904 S 13	–	N08904	X 1 NiCrMoCuN 25 20 5	Z 1 NCDU 25 20	–	2562	–	–	1.4539	ATI 904L™
348	X 5 CrNiNb 18 10	S 527	–	J92640	–	–	X 6 CrNiNb 18 11	–	–	–	1.4546	ATI 348™
–	X 5 CrNiNb 19 9	–	SUS Y 347	S34780	X 5 CrNiNb 20 10 KE	Z 6 CNNb 20-10	–	–	–	–	1.4551	–
–	GX 7 NiCrMoCuNb 42 20	–	–	–	GX 7 NiCrMoCuNb 4220	–	–	–	–	–	1.4559	–
–	X 5 CrNiMoNb 19 12	318 S 96	–	S31980	X 5 CrNiMoNb 19 12 03 KE	Z 4 CNDSNb 19-12-03	–	–	–	–	1.4576	–
–	X 2 CrAlTi 18 2	–	–	–	X 2 CrAlTi 18-2	DMV 59	X 2 CrAlTi 18-2	–	–	–	1.4605	–
–	X 10 CrAl 7	–	–	–	X 10 CrAl 7	–	–	–	–	–	1.4713	–

NOTE: For legend, see page Y237.

(continued)

P5 ■ Workpiece Materials Listing • Steel • P5 *(continued)*

P5 Ferritic, Martensitic, and PH Stainless Steels *Tensile Strength RM (MPa)*: 600–900* *Hardness (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	X 215 Cr 12	–	–	–	–	–	–	–	–	–	1.4721	–
H-12	X 10 CrAl 13	BH 12	SUS 405	T20812	X 10 CrAl 13	Z 10 C 13	X 10 CrAl 12	–	–	–	1.4724	–
430	X 10 CrAl 18	(430 S 15)	SUH 21	S43000	–	Z 10 CAS 18	(X 8 Cr 17)	–	–	–	1.4742	–
446	X 10 CrAl 25	–	SUH 442	S44600	X 10 CrAl 24	Z 10 CAS 24	X 16 Cr 26	2322	–	–	1.4762	–
–	GX 40 CrNiSi 27 4	–	–	J92605	–	–	–	–	–	–	1.4823	–
–	X 12 CrNi 22 12	311 S 94	SUS Y 309	S30980	X 15 CrNi 23 13	–	X 16 CrNi 23 14	–	–	309	1.4829	–
–	X 9 CrNiSiNCe 21 11 2	–	–	–	X 9 CrNiSiNCe 21-11-2	–	–	–	–	–	1.4835	–
314	X 15 CrNiSi 25 20	314 S 25	SUH 310	S31400	X 15 CrNiSi 25 20	Z 15 CNS 25.20	X 16 CrNiSi 25 20	–	–	–	1.4841	Cronifer® 2520
–	X 12 CrNi 25 20	310 S 94	–	S31080	X 12 CrNi 26 21 KE	Z 12 CN 26-21	–	–	–	–	1.4842	–
–	CrNi 25 20	–	SCS 18	S31400	–	–	–	–	–	–	1.4843	–
310 S	X 12 CrNi 25 21	310 S 24	SUS 310 S	S31008	X 8 CrNi 25 21	Z 12 CN 25.20	X 6 CrNi 25 20	2361	–	–	1.4845	ATI 310S™
HK	X 40 CrNiSi 25 20	310 C 40	SCH 21	J94204	–	–	GX 40 CrNi 26 20	–	–	–	1.4848	–
–	GX 40 NiCrSiNb 38-18	–	–	–	3072.76	–	–	–	–	–	1.4849	–
–	GX 10 NiCrNb 32 20	–	–	J95151	–	–	–	–	–	–	1.4859	–
330	X 12 NiCrSi 35 16	NA 17	SUH 330	N08330	X 12 NiCrSi 35 1 6	Z 12 NCS 37.18	–	–	–	–	1.4864	–
–	X40NiCrSi38-18	330 C 40	SCH15/SCH16	J94605	330C11/330C40/331C40	–	GX50NiCr39-19	–	–	–	1.4865	–
–	GX 50 CrNi 30-30	–	–	N08801	–	Z5NCT3220	–	–	–	–	1.4868	–
B163	X 10 NiCrAlTi 32 20	NA 15	NCF800(TP)	–	NA15(H)	Z10NC32.21	–	–	B163	–	1.4876	B163
–	X 6 NiCrNbCe 32 27	–	–	–	X 6 NiCrNbCe 32-27	–	–	–	–	–	1.4877	–
–	X 12 NiCrSi 35 19	–	–	N08830	X1 0 NiCrSi 35 19	–	–	–	–	–	1.4886	330
–	X 10 NiCrSiNb 35 22	–	–	–	X10NiCrSiNb35-22	–	–	–	–	–	1.4887	–
–	X 10 CrMoV 9 1	–	–	S59180	X 10 CrMoV 9-1	–	–	–	–	–	1.4903	–
–	X 20 CrMoV 12 1	–	–	–	X 20 CrMoV 11-1	–	X 20 CrMoV 12 01 KW	2317	–	–	1.4922	–
–	GX 22 CrMoV 12 1	–	–	–	G-X 22 CrMoV 12 1	GX23CrMoV12-1	G X 23 CrMoV 12-1	–	–	–	1.4931	–
422	X 20 CrMoWV 12 1	–	SUH 616	S42200	–	–	X 22 CrMoWV 12 1	–	–	–	1.4935	–
661	X 12 CrCoNi 21 20	–	SUH 661	R30155	–	–	–	–	–	–	1.4971	–
R30155	X 12 CrCoNiMoWNb 21 20 20	–	–	R30155	X 12 CrCoNiMoWNb 21 20 20	Z 12 CKNDWNb 21.20.20	N-155	–	–	–	1.4974	–
–	X 40 CoCrNi 20 20	–	–	–	–	Z 42 CNKDWNb	–	–	–	–	1.4977	–
403	X 6 Cr 13	403 S 17	SUS 403	S 40300	X 6 Cr 13	Z 6 C 13	X 6 Cr 13	2301	–	A240	1.4000	ATI 410S™
439	X 6 CrTi 17	–	SUS 430 LX	S 43035	X 8 CrTi 1 7	Z 8 CT 1 7	X 6 CrTi 17	–	–	–	1.4510	430 Ti
–	X 22 CrMoV 1 -1 = ST12T	–	–	–	–	–	–	–	–	A437-76 Grade B4B	–	ATI FV448™
409 Cb	–	–	–	–	–	–	–	–	–	–	–	ATI 409Cb™
436 S	–	–	–	–	–	–	–	–	–	–	–	ATI 436S™
439 HP	–	–	–	S43035	–	–	–	–	–	–	–	ATI 439 HP™
441 HP	–	–	–	–	–	–	–	–	–	–	–	ATI 441 HP™
–	–	–	–	S44735	–	–	–	–	–	A240	–	AL 29-4C®
–	–	–	–	–	–	–	–	–	–	B625	–	ATI E-BRITE®
403Cb	–	–	–	–	–	–	–	–	–	–	–	T656
420 modified	–	–	–	–	–	–	–	–	–	–	–	Stavax ESR
–	–	–	–	–	–	–	–	–	–	–	–	420HC
–	–	–	–	–	–	–	–	–	–	–	–	CPM 154
–	–	–	–	–	–	–	–	–	–	–	–	CPM® S30V®
–	–	–	–	–	–	–	–	–	–	–	–	CPM® S35VN®
420 V	–	–	–	–	–	–	–	–	–	–	–	CPM® S90V®
–	–	–	–	–	–	–	–	–	–	–	–	M390
422	–	–	–	S42200	–	–	–	–	–	–	–	616

P6 Workpiece Materials Listing • Steel • P6

P6 High-Strength Ferritic, Martensitic, and PH Stainless Steels *Tensile Strength RM (MPa)*: 900–1350*
Hardness (HB): 350–450 (HRC): 35–48

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	17-7 PH	301 S 81	SUS 631	S17700	X 7 CrNiAl 17-7	X7CrNiAl17-7; Z9CNA17-07	X 7 CrNiAl 17-7	2388	–	A693	1.4564	ATI 17-7™
–	GX 22 CrNi 17	ANC 2	–	J91803	–	Z 20 CN 17.2 M	–	–	–	CB30	1.4059	–
–	GX 30 CrSi 6	–	–	–	–	–	–	–	–	–	1.4710	–
–	GX 4 CrNi 13 4	–	–	–	GX 4 CrNi 13-4	GX 4 CrNi 13-4	GX 4 CrNi 13-4	–	–	–	1.4317	–
–	GX 40 CrSi 17	–	–	–	–	–	GX 35 Cr 17	–	–	–	1.4740	–
–	GX 40 CrSi 24	–	SCH 1	–	–	–	GX 35 Cr 13	–	–	–	1.4745	–
–	GX 40 CrSi 28	452 C 11	SCH 2	J92605	–	–	GX 35 Cr 28	–	–	CC50	1.4776	–
–	X 105 CrCoMo 18 2	–	–	–	–	–	–	–	–	–	1.4528	N690
440 C	X 105CrMo 17	–	SUS 440C	S44004	X 105 CrMo 17	Z 100 CD 17	X 105 CrMo 17	–	–	–	1.4125	ATI 440C™
–	X 110 CrMoV 15	–	SUS 430 LX	–	–	Z 4 CN b 17	X 6 CrNb 17	–	–	–	1.4111	–
5718.9	X 12 CrNiMo 12	S.151	–	S64152	–	Z12CNDV12	–	–	–	–	1.4939	ATI Jethete™ M152
–	X 12 CrNiMoV 12 3	–	–	–	X 12 CrNiMoV 12-3	X 12 CrNiMoV 12-3	–	–	–	–	1.4938	T522
–	X 15 TN	–	–	–	420S25	Z40CDV16-02	X40CrMoVN16-2	–	–	F899	1.4123	X 15 TN
15-5 PH	X 15 U 5 W	–	–	S15500	–	Z6CNU15.05	–	–	–	A564/ A693/A705	1.4545	ATI 15-5™
–	X 19 CrMoNbVN 11 1	–	–	–	–	Z 21 CDNbV 11	–	–	–	–	1.4913	Jethete X19
431	X 19 CrNi 17 2	431 S 29	SUS 431	S 43100	X 19 CrNi 17 2	Z 15 CN 16.02	X 16 CrNi 16	2321	–	–	1.4057	431 (HT)
–	X 20 CrMo 17 1	–	–	–	–	–	–	–	–	–	1.4115	B17MoFe
420F Mod	X 22 CrMoNiS 13 1	–	–	–	–	–	–	–	–	–	1.4121	Bioline 4C27A
–	X 22 CrMoV 12 1	762	–	–	X 22 CrMoV 12-1	Z 21 CDV 12	X 22 CrMoV 12 1	–	–	–	1.4923	Jethete X20
420	X 29 CrS 13	416 S 37	SUS 416	–	X 29 CrS 13	Z29CF13	X 29 CrS 13	–	–	–	1.4029	–
–	X 3 CrNiCuTi 12 9	–	–	S45500	–	–	X 6 CrNiNb 18 11	–	–	–	1.4543	ATI 455™
13-8 PH	X 3 CrNiMoAl 13 8 2	–	–	S13800	–	Z4 CNDAT 13 09	–	–	–	–	1.4534	ATI 13-8Mo™
420 F	X 30 Cr 13	420 S 45	SUS420J2	S42020	X 30 Cr 13	Z 30 C 13	X 30 Cr 13	2304	–	CA40	1.4028	–
–	X 30CrMoN 15 1	–	–	–	420S45	Z33C13	–	2304	–	–	1.4108	N360
–	X 35 CrMo 17	–	–	–	X 39 CrMo 17 1	X39CrMo17-1	X 35 CrMo 17	–	–	–	1.4122	–
–	X 4 CrNiCuNb 16 4	–	–	J92200	–	Z 4 CNUNb 16.4 M	–	–	–	–	1.4540	–
415 M	X 4 CrNiMo 16 5 1	–	–	–	X 4 CrNiMo 16 5 1	Z 6 CND 16.05.01	–	2387	–	–	1.4418	APX4
–	X 40 CrNi 25 21	310 S 98	SCH 13	–	–	–	–	–	–	–	1.4846	–
–	X 40 CrSiMo 10 2	–	SUH3	–	X 40 CrSiMo 10-2	Z40CSD10	–	–	–	–	1.4731	–
420	X 45 Cr 13	(420 S45)	–	–	X 45 Cr 13	Z 40 C 14	X 40 Cr 14	–	–	–	1.4034	–
–	X 45 CrMoV 15	–	–	–	X 50 CrMoV 15	Z 50 CD 15	X 50 CrMo V 15	–	–	–	1.4116	UGI 4116N
HNV3	X 45 CrSi 9 3	–	SUH1	–	401S45	Z45CS9	X45CrSi8	–	HNV3	–	1.4718	–
HNV 2	X 45 SiCr 4	–	–	S64006	–	–	–	–	–	–	1.4704	–
CA 6-NM	X 5 CrNi 134	425 C 11	SCS 5	J91540	X 3 CrNiMo 13 4	Z 4 CDN 13.4	X 6 CrNi 13 04	2385	–	–	1.4313	–
630	X 5 CrNiCuNb 16 4	–	SUS 630	–	X 5 CrNiCuNb 16-4	Z6CNU17.04	–	–	–	CB7Cu	1.4542	UGIMA® 4542
17-4 PH	X 5 CrNiCuNb 17 4 4	–	SUS 630	S17400	X 5 CrNiCuNb 16-4	X5CrNiCuNb16.4	–	–	–	A693	1.4548	–
–	X 5 CrNiMoCuNb 14 5	–	–	–	X 5 CrNiMoCuNb 14-5	X 5 CrNiMoCuNb 14-5	X 5 CrNiMoCuNb 14-5	–	–	–	1.4594	–
–	X 50 CoCrNi 20 20	–	–	–	–	–	–	–	–	–	1.4978	–
EV8	X 53 CrMnNiN 2 9	349 S 54	SUH35/SUH36	S63008	349S54	Z52CMN21.09	X53CrMnNiN21-9	–	EV8	–	1.4871	–
–	X 55 CrMo 14	–	–	–	–	Z 50 CD 13	–	–	–	–	1.4110	–
–	X 60 CrMnMoVNbN 21 10	–	–	–	–	Z 60 CMDVNb 21-10 Az	–	–	–	–	1.4785	–
440 A	X 65 CrMo 14	–	SUS 440A	S44002	X 70 CrMo 15	Z 70 CD 14	–	–	–	–	1.4109	ATI 440A™
–	X 7 CrNiAl 17 7	301 S 81	SUS 631	S17700	X 7 CrNiAl 17-7	X7CrNiAl17-7;Z9CNA17-07	X 7 CrNiAl 17-7	2388	–	A693	1.4568	–
632	X 7 CrNiMoAl 15 7	–	–	S15700	–	–	–	–	–	–	1.4574	PH 15-7 Mo®
–	X 8 CrCoNiMo 10 6	Z 9 CKD 11	–	–	S152	Z10CKD10	–	–	–	–	1.4911	ATI FV535™
15-7 PH	X 8 CrNiMoAl 15 7 2	–	–	S15700	X 8 CrNiMoAl 15-7-2	Z8CNDA15.07	X 8 CrNiMoAl 15-7-2	–	–	A693	1.4532	ATI 15-7™
HNV 6	X 80 CrNiSi 20	443 S 65	SUH 4	S65006	X 80 CrNiSi 20	Z 80 CSN 20.02	X 80 CrSiNi 20	–	–	–	1.4747	–
–	X 85 CrMoV 18 2	–	–	–	X 85 CrMoV 18 2	Z 85 CDMV 18.02	X 85 CrMoV 19 3	–	–	–	1.4748	–
440 B	X 90 CrMoV 18	409 S 1 9	SUS 440 B	S44003	X 90 CrMoV 18	Z 3 CT 1 2	X 6 Cr Ti 1 2	–	–	–	1.4112	–
–	X45CrNiW18-9	331 S 40	SUH31	–	X 45 CrNiW 18 9	Z35CNWS14.14	X45CrNiW18-9	–	–	–	1.4873	–

NOTE: For legend, see page Y237.

M1 Workpiece Materials Listing • Stainless Steel • M1

M1 Austenitic Stainless Steel *Tensile Strength RM (MPa)*: <600* *Hardness (HB): 130–200*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
CF-8	X 6 CrNi 18 9	304 C 15	SCS 13	–	X 2 CrNiN 18 7	Z 6 CN 18.10 M	G X 5 CrNi 19-10	2333	–	CF8	1.4308	CF-8
–	X 2 NiCr 18 16	–	–	–	–	Z 3 CDT 18-02	–	–	–	–	1.4321	–
–	X 1 CrNi 25 21	–	–	–	X 1 CrNi 25 21	X1CrNi25-21	X 1 CrNi 25-21	–	–	–	1.4335	Uranus 65
610	X1CrNiSi 18-15-4	–	–	S30600	X 1 CrNiSi 18-15-4	Z1 CNS 17.5	X 1 CrNiSi 18-15-4	–	–	A240-97A	1.4361	ATI 610™
CF-8M	X 6 CrNiMo 18 10	316 C 16	SCS 14	J92900	GX 5 CrNiMo 19-11-2	GX5CrNiMo 19-11-2	G X 5 CrNiMo 19-11-2	2343	–	–	1.4408	–
–	GX 2 CrNiMo 19 11 2	–	–	–	GX 2 CrNiMo 19-11-2	GX 2 CrNiMo 19-11-2	GX 2 CrNiMo 19-11-2	–	–	–	1.4409	–
–	ERO 4412 AHMo	–	–	J92900	GX 5 CrNiMo19-11-3	GX 5 CrNiMo 19-11-3	–	–	–	A743CF8M	1.4412	–
–	ERO 4416 AHCRMo	–	–	–	GX 2 NiCrMoN 25-20-5	GX2NiCrMoN 25-20-5	–	–	–	–	1.4416	–
–	GX 6 CrNiMo 18 12	317 C 12	–	–	–	–	–	–	–	–	1.4437	–
–	X 2 CrNiMo 18 16 5	–	–	S31780	–	–	–	–	–	–	1.4440	–
–	GX 2 CrNiMoN 17 1 3 4	–	–	–	GX 2 CrNiMoN 17 1 3 4	–	–	–	–	–	1.4446	–
–	GX 6 CrNiMo 17 13	317 C 16	–	J93000	–	–	–	–	–	CG8M	1.4448	–
–	GX 2 NiCrMo 28 20 2	–	–	–	GX 2 NiCrMo 28-20-2	GX 2 NiCrMo 28-20-2	GX 2 NiCrMo 28-20-2	–	–	–	1.4458	–
–	GX 4 NiCrCuMo 30 20 4	–	–	–	GX 4 NiCrCuMo 30-20-4	GX 4 NiCrCuMo 30-20-4	–	–	–	–	1.4527	–
–	GX 5 CrNiNb 18 9	347 C 17	SCS 21	J92710	GX 5 CrNiNb 19-11	Z 4 CNNb 19.10 M	G-X 5 CrNiNb 19-11	–	–	–	1.4552	–
–	GX 2 CrNiMoCuN 20 18 6	–	–	–	GX 2 CrNiMoCuN 20-18-6	GX 2 CrNiMoCuN 20-18-6	–	–	–	–	1.4557	–
–	X 3 CrNiCuMo 17 11 3 2	–	–	–	X 3 CrNiCuMo17 11 3 2	X3CrNiCuMo 17-11-3-2	X 3 CrNiCuMo 17-11-3-2	–	–	–	1.4578	–
–	GX 5 CrNiMoNb 18 10	318 C 17	SCS 22	–	GX 5 CrNiMoNb 19-11-2	Z 4 CNDNb 18.12 M	GX 6 CRNOMONB 20 11	–	–	–	1.4581	–
–	GX 2 NiCrMoCu 25 2 0 5	–	–	–	GX 2 NiCrMoCu 25-20-5	GX 2 NiCrMoCu 25-20-5	–	–	–	–	1.4584	–
–	GX 7 CrNiMoCuNb 18 18	–	–	J94651	–	–	–	–	–	–	1.4585	–
–	GX 2 NiCrMoCuN 29 25 5	–	–	–	GX 2 NiCrMoCuN 29-25-5	GX 2 NiCrMoCuN 29-25-5	–	–	–	–	1.4587	–
–	GX 2 NiCrMoCuN 25 20 6	–	–	–	GX 2 NiCrMoCuN 25-20-6	GX 2 NiCrMoCuN 25-20-6	–	–	–	–	1.4588	–
–	GX 25 CrNiSi 18 9	302 C 35	–	J92602	–	–	G X 16 CrNi 20 10	–	–	CF20	1.4825	–
–	GX 40 CrNiSi 22 9	–	SCH 12	J92603	–	–	–	–	–	–	1.4826	–
–	GX 50 CrNiNb 25 22	–	–	–	–	–	–	–	–	–	1.4836	–
–	GX 40 CrNiSi 25 12	309 C 30	SCS 17	J93503	–	–	GX 35 CrNi 25 12	–	–	CE30	1.4837	–
334	X 8 CrNiAlTi 20 20	–	–	S33400	–	–	–	–	–	–	1.4847	ATI 334™
–	GX 40 NiCrSiNb 38 18	–	–	N08004	–	–	–	–	–	–	1.4849	–
–	GX 40 NiCrSiNb 35 25	–	–	–	–	–	–	–	–	–	1.4852	–
–	GX 40 NiCrSi 35 25	–	–	J95705	–	–	GX 50 NiCr 35 25	–	–	–	1.4857	–
105 MA	BGH 4892	–	–	–	–	–	–	–	–	–	1.4892	–
–	X 3 CrNi 18 11	–	–	–	–	–	X 2 CrNiN 18 11	–	–	–	1.4949	–
–	X 2 CrNiMo 19 12	316 S 93	–	S31683	x 2 CrNiMo 19 13 03 KE	Z 2 CND 19-12-03	–	–	–	–	1.4430	–
–	GX 7 NiCrMoCuNb 25 20	–	SCS 23	J95150	10.204.3.1B	Z 3 NCDU 25.20 M	GX 5 NiCrCuMo 29 21	–	–	–	1.4500	–
–	X 3 CrNiCu 19 9 2	–	–	–	S 124 M	PHYHQ 4560	304 RH1	–	–	–	1.4560	ACX276
–	–	–	–	S63198	–	–	–	–	19-9 DL	–	–	19-9 DL
–	X 2 CrNiMoN 17 13 3	–	–	–	–	Z 2 CND 17.13	X 2 CrNiMoN 17 13 3	–	–	–	–	–
332	–	–	–	N08800	–	–	–	–	–	–	–	ATI 332™
–	–	–	–	N08367	–	–	–	–	–	–	–	AL-6XN®
611	–	–	–	S30601	–	–	–	–	–	A240-97A	–	ATI 611™

M2 Workpiece Materials Listing • Stainless Steel • M2

M2 High-Strength Austenitic Stainless and Cast Stainless Steels *Tensile Strength RM (MPa)*: 600–800*
Hardness (HB): 150–230 (HRC): <25

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
304 H	X 5 CrNi 18 10	304 S 15	SUS 304	S30409	X 6 CrNi 18 10 KD	Z 6 CN 18.09	X 5 CrNi 18 10	2332	–	–	1.4301	–
–	X 5 CrNi 19 9	308 S 96	–	S30888	X 6CrNi 20 10 KE	–	–	–	–	–	1.4302	–
305	X 4 CrNi 18 12	305 S 19	SUS 305	S30500	X 4 CrNi18 12 KD	Z 5 CN 18.12	X 4 CrNi 19 10	–	–	–	1.4303	–
303	X 10 CrNiS 18 9	303 S 21	SUS 303	S30300	X 10 CrNiS 18 9	Z 10 CNF 18.09	X 10 CrNiS 18 09	2346	–	–	1.4305	ATI 303™
304 L	X 2 CrNi 19 11	304 C 12	SUS 304L	S30403	X 3 CrNi18 10 KD	Z 2 CN 18.09	GX 2 CrNi 19 10	2352	–	CF3	1.4306	ATI 304L™
304 L	X 2 CrNi 18 9	304 S 11	SUS 304L	–	X 2 CrNi 18 9	CLC18.9.L	X 2 CrNi 18-9	–	–	–	1.4307	–
–	GX 2 CrNi 19 11	304 C 12	–	J92500	GX2CrNi19-11	GX2CrNi19-11	GX2CrNi19-11	2352	–	CF3	1.4309	–
304 LN	X 2 CrNiN 18 10	304 S 62	SUS 304 LN	S30453	X 2 CrNiN 18 10	Z 8 CN 18.12	X 8 CrNi 19 10	2371	–	–	1.4311	–
305	GX 10 CrNi 18 8	302 C 25	SCS 12	–	–	Z 10 CN 18.9 M	–	–	–	–	1.4312	ATI 305™
308 L	X 2 CrNi 19 9	308 S 92	SUS Y 308L	S30883	X 2 CrNi 20 10 KE	Z 2 CN 20.10	–	–	–	–	1.4316	–
–	X 2 CrNiN 18 7	–	–	–	X 2 CrNiN 18-7	18-7L	18-7L	–	–	–	1.4318	–
302	X 10 CrNi 18 9	302 S 26	SUS 302	S20200	302S31	Z10CN18-09	X 10 CrNi 18 09	2330	–	–	1.4319	ATI 302™
301	X 10 CrNi 18 9	302 S 26	–	J92501	X 10 CrNi 18 9	–	–	–	–	–	1.4324	–
–	X 10 CrNi 30 9	312 S 94	–	–	X 12 CrNi 30 09 KE	Z 10 CN 31-10	–	–	–	–	1.4337	–
–	X 3 CrNi 13 4	–	–	S41086	X 3 CrNi 14 04 KE	–	–	–	–	–	1.4351	410NiMo
202	X 3CrMnNiN 18 8 7	–	–	–	284S16	Z8CMN18-08-05	–	–	–	–	1.4371	–
201	X 12 CrMnNiN 17 7 5	284 S 16	SUS 201	–	X 12 CrMnNiN 17-7-5	X 12 CrMnNiN17-7-5	X 12 CrMnNiN 17-7-5	–	–	–	1.4372	ACX060
316	X 5 CrNiMo 17 12 2	316 S 16	SUS 316	S31600	X6 CrNiMo 17 12 2 KD	Z 6 CND 17.11	X 5 CrNiMo 17 12	2347	–	–	1.4401	ATI 316™
316L	X 2 CrNiMo 17 13 2	316 S 12	SUS 316 L	S31603	GX 3 CrNiMo 17 12 2 KD	Z 3 CND 19.10 M	GX 2 CrNiMo 19 11	2348	–	–	1.4404	ATI 316L™
316 LN	X 2 CrNiMoN 17 12 2	316 S 61	SUS 316 LN	S31653	X 3 CrNiMoN 17 12 2	Z 2 CND 17.12 Az	X 2 CrNiMoN 17 12	2353	–	–	1.4406	ATI 316LN™
–	X 5 CrNiMo 13 4	–	–	J91550	–	Z 6 CND 16.05.01	–	–	–	–	1.4407	–
–	X12CrNiMoS18-11	–	–	–	–	Z3CNDF17-13	–	–	–	–	1.4427	Chronifer® Special KL
316L	X 2 CrNiMo 17 12 3	316 S 13	SUS 316L	–	X 2 CrNiMo 17 12 2	Z 3 CND 17-13-30	X 2 CrNiMo 17-12-3	2348/2353/2354	–	–	1.4432	–
–	X 2 CrNiMoN 18 12 4	–	–	–	317 LN	CLC18.12.4.LN	X2CrNiMoN1812-4	–	–	–	1.4434	–
316 L	X 2 CrNiMo 18 14 3	316 S 11	SCS 16	S31603	X 2 CrNiMo 18 16	Z 2 CND 17.13	X 2 CrNiMo 17 13	2353	–	–	1.4435	–
316	X 5 CrNiMo 17 1 3 3	316 S 16	SUS 316	S31600	X6 CrNiMo 18 13 3 KD	Z 6 CND 17.12	X 5 CrNiMo 17 13	2343	–	–	1.4436	–
317 L	X 2 CrNiMo 18 16 4	317 S 12	SUS 317 L	S31703	X 3 CrNiMo 18 16 4	Z 2 CND 19.15	X 2 CrNiMo 18 15	2367	–	–	1.4438	ATI 317L™
–	X 2 CrNiMoN 17 13 5	–	–	–	X 3 CrNiMo 17 13 5	Z 3 CND 18.14-05 AZ	–	–	–	–	1.4439	–
–	X 2 CrNiMo 18 15 4	–	–	S31675	–	X 3 CrNiMoN 19-14	–	–	–	–	1.4442	–
317	X 5 CrNiMo 17 13	317 S 16	SUS 317	S31700	–	–	X 5 CrNiMo 18 15	–	–	–	1.4449	AL 317L+E55
–	X 5 CrNiCuNb 16 4	–	–	–	–	Z7CNU16.04	–	–	–	–	1.4452	–
–	–	–	–	S21904	–	–	–	–	–	A666	1.4454	ATI 219
–	X 2 CrNiMnMoN 20 16	–	–	–	X 2 CrNiMnMoN 20 15 08 KE	–	–	–	–	–	1.4455	–
–	X 1 CrNiMoN 25 2 5 2	–	–	S31050	–	–	–	–	–	–	1.4465	2RE69

(continued)

M2 Workpiece Materials Listing • Stainless Steel • M2 *(continued)*

M2 High-Strength Austenitic Stainless and Cast Stainless Steels *Tensile Strength RM (MPa)*: 600–800*
Hardness (HB): 150–230 (HRC): <25

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	X 1 CrNiMoN 25 22 2	–	–	–	725 LN	DMV 25.22.2	X 1 CrNiMoN 25-22-2	–	–	–	1.4466	–
–	X 1 NiCrMoCuN 25 20 6	–	–	–	–	–	–	–	–	–	1.4529	Uranus B26 6Mo
–	GX 2 NiCrMoCuN 25 20	–	–	J94650	GX 2 CrNiMoCuN 25-20-6	–	–	–	–	–	1.4536	–
–	X 1 CrNiMoCuN 25 25 5	–	–	–	X 1 CrNiMoCuN 25-25-5	X 1 CrNiMoCuN 25-25-5	X 1 CrNiMoCuN 25-25-5	–	–	–	1.4537	–
321	X 6 CrNiTi 18 10	321 S 12	SUS 321	S32100	X 6 CrNiTi 18 10	Z 6 CNT 18.10	X 6 CrNiTi 18 11	2337	–	–	1.4541	ATI 321™
321	A 700	304 S 31	–	J92630	–	Z 10 CNT 18 11	X 6 CrNiTi 18 11	–	–	–	1.4544	–
–	X 1 CrNiMoCuN 20 18 7	X 1 CrNiMoCuN 20 18 7	–	S31254	X 1 CrNiMoCuN 20-18-7	X 1 CrNiMoCuN 20-18-7	X 1 CrNiMoCuN 20-18-7	–	–	–	1.4547	Uranus B25 6Mo
–	X 2 NiCrAlTi 32 20	–	NCF 800 TB	–	–	–	–	–	–	–	1.4558	–
–	X 1 NiCrMoCuN 31 27 4	–	–	–	X 1 NiCrMoCu 31 27 4	X 1 NiCrMoCuN 31 -27-4	X 1 NiCrMoCuN 31 -27-4	2584	–	–	1.4563	–
–	X 3 CrNiCu 18 9 4	394 S 17	SUS XM7	–	X3CrNiCu18-9-4	304CU	304K	–	–	–	1.4567	–
316 Ti	X 6 CrNiMoTi 17 12 2	320 S 31	SUS 316Ti	–	X 6 CrNiMoTi 17 12 2	Z 6 CNDT 17.12	X 6 CrNiMoTi 17 12	2350	–	–	1.4571	ATI 316Ti™
–	GX 5 CrNiMoNb 23 9	–	–	–	–	–	–	–	–	–	1.4572	–
316 Ti	X 10 CrNiMoTi 18 12	320 S 33	SUS 316Ti	S31635	–	–	X 6 CrNiMoTi 17 13	–	–	–	1.4573	–
318	X 10 CrNiMoNb 18 12	–	–	–	–	–	X 6 CrNiMoNb 17 13	–	–	–	1.4583	–
–	X 2 CrNiCu 19 10	–	–	–	X 2 CrNiCu 19-10	TX 304L	–	–	–	–	1.4650	–
–	X1CrNiMoCuN24-22-8	–	–	S32654	–	–	–	–	–	–	1.4652	654 SMO®
–	153 MA	–	–	S30415	X 6 CrNiSiNCe 19 10	–	–	–	–	–	1.4818	153 MA™
–	X 20 CrNiSi 25 4	–	–	S44635	X 15 CrNiSi 25 4	Z 20 CNS 25.04	X 20 CrNiSi 25 4	–	–	–	1.4821	–
309	X 15 CrNiSi 20 12	309 S 24	SUH 309	S30900	X 15 CrNiSi 20 12	Z 15 CNS 20.12	X 16 CrNiSi 25,20	–	–	–	1.4828	ATI 309™
309 S	X 7 CrNi 23 14	309 S 24	SUS 309 S	J93400	X 12 CrNi 23 13	Z 15 CN 24.13	X 6 CrNi 23 14	–	–	–	1.4833	–
–	353 MA	–	–	S35315	X 6 NiCrSiNCe 35-25	–	–	–	–	–	1.4854	353 MA®
–	X 8 NiCrSi 38 18	NA 17	–	N08330	–	Z 12 NCS 37.18	–	–	–	–	1.4862	–
–	X 33 CrNiMnN 23 8	–	–	–	X 33 CrNiMnN 23-8	X 33 CrNiMnN 23-8	–	–	–	–	1.4866	–
EV 12	X 55 CrMnNiN 20 8	–	–	S63012	X 55 CrMnNiN 20-8	Z 55 CMN 20.08 Az	–	–	–	–	1.4875	–
321	X 12 CrNiTi 18 9	321 S 20	SUS 321	S32100	X 10 CrNiTi 18 10	Z 6 CNT 18.12	X 6 CrNiTi 18.11	2337	–	–	1.4878	ACX315
EV 11	X 70 CrMnNiN 21 6	–	–	S63011	–	–	X 70 CrMnNiN 21 6	–	–	–	1.4881	–
–	X 50 CrMnNiNbN 21 9	–	–	–	X 50 CrMnNiNbN 21-9	Z 50 CMNNb 21.09	–	–	–	–	1.4882	–
–	X 7 CrNiNb 18 10	–	SUS347H	S34709	X7CrNiNb18-10	X7CrNiNb18-10	–	–	–	–	1.4912	–
316 H	X 6 CrNiMo 17 13	316 S 51	–	S31609	X 6 CrNiMo 17 12 2	Z 6 CND 17-13 B	–	–	–	–	1.4919	–
321 H	X 8 CrNiTi 18 10	–	–	–	X 6 CrNiTiB 18-10	Z 6 CNT 18-10 B	X 6 CrNiTiB 11	–	–	–	1.4941	–
A660	X 4 NiCrTi 25 15	HR251	SUH 660	S66286	–	Z 6 NCTDV 25.15 B	–	–	–	–	1.4943	Discaloy
–	X 6 CrNiWNb 16 16	–	–	–	–	–	–	–	–	–	1.4945	–
–	X 6 CrNi 18 11	304 S 51	–	S30480	X 6 CrNi 18 10	Z 6 CN 18-09	X 5 CrNi 18 10 KW	2333	–	–	1.4948	–
–	X 6 CrNi 25 20	–	–	–	310 H	–	–	–	–	–	1.4951	–
–	X 8 CrNiNb 16 13	347 S 51	–	–	–	–	–	–	–	–	1.4961	–
–	Esshete12 50	–	–	S21500	X 10 CrNiMoMnNbVB 15-10-1	X 10 CrNiMoMnNbVB 15-10-1	–	–	–	A213	1.4982	Esshete 1250
–	X 8 CrNiMoBNb 16 16	–	–	–	X 7 CrNiMoBNb 16-16	–	–	–	–	–	1.4986	–
301	X 12 CrNi 17 7	301 S 21	SUS 301	S30100	X 12 CrNi 17 7	Z 12 CN 17.07	X 12 CrNi 17 07	2331	–	–	1.4310	ATI 301™
–	GX 40 CrNi 27 4	–	–	J92615	–	–	GX 35 CrNi 28 05	–	–	–	1.4340	–
304	X 5 CrNi 18 9	304 S 31	SUS 304	S30400	1	Z6CN18.09	X5CrNi1810	2332/2333	–	A276	1.4350	ATI 304™
–	X 15 CrNiMn 18 8	307 S 98	–	–	X 15 CrNiMn 18 08 KE	Z 8 CNM 19-09-07	–	–	–	–	1.4370	–
S32750	GX 10 CrNiMo 18 9	–	SCS 14 A	S32750	X 2 CrNiMoN 25-7-4	Z 5 CND 20.10 M	X 2 CrNiMoN 25-7-4	–	–	–	1.4410	–
–	X 5 CrNiMo 18 11	315 S 16	–	–	–	–	–	2340	–	–	1.4420	–
347	X 6 CrNiNb 18 10	347 S 17	SUS 347	S34700	X 6 CrNiNb 18 10	Z 6 CNNb 18.10	X 6 CrNiNb 18 11	2338	–	–	1.4550	ATI 347™
316 Cb	X 6 CrNiMoNb 17 12 2	318 S 17	–	–	X 6 CrNiMoNb 17 12 2	Z 6 CNDNb 17.12	X 6 CrNiMoNb 17 12	–	–	–	1.4580	–
–	X 3 CrNiMoN 17 13	–	–	–	X 3 CrNiMoN 17-13-3	–	X 2 CrNiMoN 17 12	–	–	–	1.4910	–
–	X 6 CrNi 23 13	–	–	–	309 H	–	–	–	–	–	1.4950	–
A286	X 6 NiCrTiMoVB 25-15-2	286 S 31	–	S66286	X 6 NiCrTiMoVB 21-15-2	–	–	–	–	–	1.4980	Incoloy A 286
XM-19	–	–	–	S20910	–	–	–	–	–	F1314	–	ATI XM-19™
303 plus X	–	–	–	S30310	–	–	–	–	–	XM-5	–	303 plus X
–	X 2 CrNi 18 13 3	–	–	–	–	–	–	–	–	–	–	Staybrite® 4435NCu
218	–	–	–	S21800	–	–	–	–	–	–	–	Nitronic 60
201LN	–	–	–	S20153	–	–	–	–	–	–	–	ATI 201LN™-MIL
–	X 2 CrNiMoN 17 13 3	–	–	–	–	Z 2 CND 17.13	X 2 CrNiMoN 17 13 3	–	–	–	–	AL 316LXN
–	–	–	–	S31675	–	–	–	–	–	F1586	–	ATI REX 734™
–	–	–	–	–	–	–	–	–	–	–	–	P558
–	X 1 NiCrMoCu 22 24 6	–	–	–	–	–	–	–	–	–	–	Uranus B66
–	–	–	–	–	–	–	–	–	–	–	–	ATI Datalloy 2®
–	–	–	–	–	–	–	–	–	–	–	–	ATI Staballoy® AG17®
–	–	–	–	–	–	–	–	–	–	–	–	P530
–	X 1 NiCrMoCu 31 27 4	–	–	N08028	–	–	–	–	–	–	–	Uranus B28
–	–	–	–	–	–	–	–	–	–	–	–	P750
–	–	–	–	–	–	–	–	–	–	–	–	P750-I
–	X 4 CrNiMoN 21 9 4	–	–	–	–	–	–	–	–	F1586	–	M30NW
–	–	–	–	–	–	–	–	–	–	–	–	P550
–	–	–	–	–	–	–	–	–	–	–	–	P580
–	–	–	–	–	–	–	–	–	–	–	–	P650
–	–	–	–	–	–	–	–	–	–	–	–	ATI Datalloy HP™

NOTE: For legend, see page Y237.

M3 ■ Workpiece Materials Listing • Stainless Steel • M3

M3 Duplex Stainless Steel *Tensile Strength RM (MPa)*: <800* *Hardness (HB): 135–275 (HRC): <30*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	GX 120 CrMo 29 2	–	–	–	–	–	–	–	–	F30M	1.4138	PK324
–	X 2 CrMnNiN 21 5 1	–	–	S32101	–	–	–	–	–	–	1.4162	LDX2101
–	GX 6 CrNiN 26 7	–	–	–	GX 6 CrNiN 26-7	–	–	–	–	–	1.4347	–
S32304	X 2 CrNiN 23 4	–	–	S32304	SAF 2304	35 N	X 2 CrNiN 23-4	2327	–	A240	1.4362	ATI 2304™
S31500	X 2 CrNiMoSi 19 5	–	–	S39215	GX 2 CrNiMoN 25-7-3	GX 2 CrNiMoN 25-7-3	–	2376	–	–	1.4417	–
S31803	X 2 CrNiMoN 22 5 3	318 S 13	SUS 329J 3L	S31803, S32205	X 2 CrNiMoN 22 5 3	Z 3 CND 22.05 AZ	X 2 CrNiMoN 22-5-3	2377	F51	2205	1.4462	ATI 2205™
–	GX 6 CrNiMo 24 8 2	–	–	–	–	–	–	–	–	–	1.4463	–
–	GX 2 CrNiMoN 25 6 3	–	–	–	GX 2 CrNiMoN 25-6-3	GX 2 CrNiMoN 25-6-3	–	–	–	–	1.4468	–
–	GX 2 CrNiMoN 26 7 4	–	–	J93404	GX 2 CrNiMoN 26-7-4	GX 2 CrNiMoN 26-7-4	GX 2 CrNiMoN 26-7-4	–	–	–	1.4469	–
–	X 2 CrNiMoCuWN 25 7 4	–	–	S32760	X 2 CrNiMoCuWN 25 7 4	X 2 CrNiMoCuWN 25-7-4	X 2 CrNiMoCuWN 25-7-4	–	–	F 55	1.4501	F55
2507	X 2 CrNiMoCuN 25 6 3	–	–	–	X 2 CrNiMoCuN 25-6-3	DMV25.7Cu	329SK	–	–	–	1.4507	Uranus 52N+
–	GX 2 CrNiMoCuWN 25 8 4	–	–	–	X 6 CrNiCu 18 10 4 KD	Z 4 CNUD 17-11-03 FF	–	–	–	–	1.4508	–
–	GX 2 CrNiMoCuN 25 6 3 3	–	–	–	GX 2 CrNiMoCuN 25-6-3-3	GX 2 CrNiMoCuN 25-6-3-3	GX 2 CrNiMoCuN 25-6-3-3	–	–	–	1.4517	–
–	X 4 CrNiMoNb 25 7	–	SCS 22	–	–	–	–	–	–	–	1.4582	PK343
–	BGH 4593	–	–	–	GX 3 CrNiMoCuN 24 6 2 3	–	–	–	–	–	1.4593	Noridur®
329	X 4 CrNiMo 27 5 2	–	SUS 329 J1	S32900	X 3 CrNiMo 27 5 2	X 2 CrNiMo 25-7-3	X 3 CrNiMo 27-5-2	2324	–	A240	1.4460	10RE51
–	GX 2 CrNiMoN 22 5 3	–	–	–	GX 2 CrNiMoN 22-5-3	GX 2 CrNiMoN 22-5-3	GX 2 CrNiMoN 22-5-3	–	–	–	1.4470	–
S32550	–	–	–	S32550	–	–	–	–	–	–	–	Ferralium® alloy 255
–	–	–	–	S32003	–	–	–	–	–	–	–	ATI 2003®
–	–	–	–	S80211	–	–	–	–	–	–	–	ATI 2102™
–	–	–	–	S32550	–	–	–	–	–	–	–	ATI 255™
–	–	–	–	S34565	–	–	–	–	–	–	–	ATI 4565™
–	X 2 CrNiMoN 25 6 3	–	–	–	–	–	–	–	–	–	–	Uranus 47N+
–	–	–	–	–	–	–	F60	–	–	32760	–	Zeron® 100

Cast Iron

K1 ■ Workpiece Materials Listing • Cast Iron • K1

K1 Gray Cast Iron *Tensile Strength RM (MPa)*: 125–500* *Hardness (HB): 120–290 (HRC): <32*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	GG-150HB	–	–	–	GJL-HB 170	–	–	–	–	–	0.6012	–
A48-25 B	GG-15	Grade 150	FC 150	–	GJL-150	FGL 150	G 15	0115-00	–	A 48 Class 25	0.6015	–
–	GG-170HB	–	–	N06985	GJL-HB 205	–	–	–	–	–	0.6017	–
–	GG-190HB	–	–	N06022	GJL-HB 230	–	–	–	–	–	0.6022	–
A48-35 B	GG-25	Grade 260	FC 250	–	GJL-250	FGL 250	G 25	0125-00	–	A 48 Class 35	0.6025	–
–	GG-26	–	FC260	–	–	–	G 26	0126-00	–	–	0.6026	–
–	GG-220HB	–	–	W06027	GJL-HB 250	FGL 250	–	–	–	–	0.6027	–
–	GG-240HB	–	–	–	GJL-HB 275	–	–	–	–	–	0.6032	–
A48-50 B	GG-35	Grade 350	FC 350	–	GJL-350	FGL 350	G 35	0135-00	–	A 48 Class 50	0.6035	–
–	GG-260HB	–	–	–	GJL-HB 275	–	–	–	–	–	0.6037	–
A48-20 B	GG-10	Grade 100	FC 100	–	GJL-100	FGL 100	G 10	0110-00	–	A 48 Class 20	0.6010	–
A48-30 B	GG-20	Grade 220	FC 200	W06020	GJL-200	FGL 200	G 20	0120-00	–	A 48 Class 30	0.6020	–
A48-45 B	GG-30	Grade 300	FC 300	–	GJL-300	FGL 300	G 30	0130-00	–	A 48 Class 45	0.6030	–
A48-55 B	GG-40	Grade 400	–	–	GJL-400	FGL 400	–	0140-00	–	A 48 Class 55	0.6040	–
A48-40	–	–	–	–	–	–	–	–	–	A 48 Class 40	–	–
A48-60	–	–	–	–	–	–	–	–	–	A 48 Class 60	–	–
–	–	–	–	–	–	–	–	–	G1800	A 159 G1800	–	–
–	–	–	–	–	–	–	–	–	G3000	A 159 G3000	–	–
–	–	–	–	–	–	–	–	–	G10H18	A 159 G3000	–	–
–	–	–	–	–	–	–	–	–	G11H18	A 159 G3000	–	–
–	–	–	–	–	–	–	–	–	G3500	A 159 G3500	–	–
–	–	–	–	–	–	–	–	–	G11H20	A 159 G3500	–	–
–	–	–	–	–	–	–	–	–	G4000	A 159 G4000	–	–
–	–	–	–	–	–	–	–	–	G13H19	A 159 G4000	–	–
–	–	–	–	–	–	–	–	–	G12H21	A 159 G4000	–	–
–	–	–	–	–	–	–	–	–	G9H12	A 159 G1800	–	–
–	GG-26-Cr	–	–	–	–	–	–	–	–	–	–	–
–	GG-25-Cr	–	–	–	–	–	–	–	–	–	–	–

K2 Workpiece Materials Listing • Cast Iron • K2

K2 Low- and Medium-Strength Ductile Irons (Nodular Irons) and Compacted Graphite Irons (CGI) *Tensile Strength RM (MPa)*: <600*
Hardness (HB): 130–260 (HRC): <28

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	GGL-NiMn137	L-NiMn 13 7	FCA NiMn 13 7	F43000	GJLA-XNiMn 13-7	L-NM 13 7	–	–	–	–	0.6652	–
A 436 Type 1	GGL- NiCuCr1562	L-NiCuCr 15 6 2	FCA-NiCuCr 15 6 2	F41000	GJLA-XNiCuCr 15-6-2	L-NUC 15 6 2	–	–	–	–	0.6655	–
A 436 Type 1b	GGL-NiCuCr1563	L-NiCuCr 15 6 3	FCA-NiCuCr 15 6 3	F41001	GJLA-XNiCuCr 15-6-3	L-NUC 15 6 3	–	–	–	–	0.6656	–
A 436 Type 2b	GGL-NiCr203	L-NiCr 20 3	FCA-NiCr 20 3	F41003	GJLA-XNiCr 20-3	L-NC 20 3	–	–	–	–	0.6661	–
–	GGL-NiSiCr2053	L-NiSiCr 20 5 3	FCA-NiSiCr 20 5 3	–	GJLA-XNiSiCr 20-5-3	L-NSC 20 5 3	–	–	–	–	0.6667	–
A 436 Type 3	GGL- NiCr303	L-NiCr 30 3	FCA-NiCr 30 3	F41004	GJLA-XNiCr 30-3	L-NC 30 3	–	–	–	–	0.6676	–
–	GGG-35.3	–	–	–	GJS-350-22	–	–	0717-15	–	–	0.7033	–
–	GGG-40.3	SNG 370/17	FCD 370	–	GJS-400-18	FGS 370-17	GSO 42/15	0717-15	–	–	0.7043	–
–	GGG-45	–	FCD 450	–	–	–	–	–	–	–	0.7045	–
–	–	–	–	–	–	FGS450.10	–	–	–	–	0.7049	–
–	GGG-65	–	–	–	–	–	–	–	–	–	0.7065	–
–	GGG-NiMn137	S-NiMn 13 7	FCDA-NiMn 13 7	–	GJSA-XNiMn 13-7	S-Mn 13 7	–	0772-00	–	–	0.7652	–
–	GGG-NiCrNb202	S2W	FCDA-NiCrNb 20 2	–	GJSA-XNiCrNb 20-2	–	–	–	–	–	0.7659	–
A 439 Type D-2B	GGG-NiCr203	S-NiCr 20 3	FCDA-NiCr 20 3	F43001	GJSA-XNiCr 20-3	–	–	–	–	–	0.7661	–
–	GGG-NiSiCr2052	S-NiSiCr 20 5 2	FCDA-NiSiCr 20 5 2	–	GJSA-XNiSiCr 20-5-2	S-NSC 20 5 2	–	–	–	–	0.7665	–
A 571 Type D-2M	GGG-NiMn234	S-NiMn 23 4	FCDA-NiMn 23 4	–	GJSA-XNiMn 23-4	S-NM 23 4	–	–	–	–	0.7673	–
A 439 Type D-3	GGG-NiCr303	S-NiCr 30 3	FCDA-NiCr 30 3	F43003	GJSA-XNiCr 30-3	S-NC 30 3	–	–	–	–	0.7676	–
A 439 Type D-3A	GGG-NiCr301	S-NiCr 30 1	FCDA-NiCr 30 1	F43004	GJSA-XNiCr 30-1	S-NC 30 1	–	–	–	–	0.7677	–
–	GGG-NiSiCr3055	–	FCDA-NiSiCr 30 5 5	–	GJSA-XNiSiCr 30-5-5	–	–	–	–	–	0.7679	–
A 439 Type D-5	GGG-Ni35	S-Ni 35	FCDA-Ni 35	F43006	GJSA-XNi 35	S-N 35	–	–	–	–	0.7683	–
A 439 Type D-5A	GGG-NiCr353	S-NiCr 35 3	FCDA-NiCr 35 3	F43007	GJSA-XNiCr 35-3	S-NC 35 3	–	–	–	–	0.7685	–
–	GGG-NiSiCr3552	–	FCDA-NiSiCr 35 5 2	–	GJSA-XNiSiCr 35-5-2	FGS Ni35 Si 5 Cr2	–	–	–	–	0.7688	–
–	GTW-35-04	W 35-04	FCMW 330 class 1	–	GJMW-35-0-4	MB 35-7	W 35-04	–	–	–	0.8035	–
–	GTW-S-38-1 2	W 38-12	–	–	GJMW-360-12	MB 300-12	–	–	–	–	0.8038	–
–	GTW-45-07	W 45-07	FCMWP 440 class 3	–	GJMW-450-7	MB 450-7	GMB 45	–	–	–	0.8045	–
–	GTW-55	–	–	–	–	–	GMB 55	–	–	–	0.8055	–
–	GTW-65	–	–	–	–	–	GMB 65	–	–	–	0.8065	–
32510	GTS-35-10	B 340/12	FCMP 330	–	GJMB-350-10	MN 350-10	–	815	–	–	0.8135	–
40010	GTS-45-06	P 440/7	FCMP 440	–	GJMB-450-6	MN 450 - 6	P 45-06	852	–	–	0.8145	–
50005	GTS-55-04	P 510/4	FCMP 490	–	GJMB-550-4	MN 550-4	P 55-04	854	–	–	0.8155	–
70003	GTS-65-02	P 570/3	FCMP 540	–	GJMB-650-2	MN 650-3	P 65-02	0858-00, 0856-00	–	–	0.8165	–
90001	GTS-70-02	P 690/2	FCMP 690	–	GJMB-700-2	MN 700-2	P 70-02	0862-03; 0864-03	–	–	0.8170	–
–	GGV-30	–	–	–	GJV-300	–	–	–	–	–	0.9991	–
A 436 Type 2	GGL-NiCr202	L-NiCr 20 2	FCA-NiCr 20 2	F41002	GJLA-XNiCr 20-2	L-NC 20 2	–	0523-00	–	–	0.6660	–
A 436 Type 4	GGL- NiSiCr3055	L-NiSiCr 30 5 5	FCA-NiSiCr 30 5 5	F41005	GJLA-XNiSiCr 30-5-5	L-NSC 30 5 5	–	–	–	–	0.6680	–
60-40-18	GGG-40	SNG 420/12	FCD 400 class 1	F32800	GJS-400-15	FGS400-12	GS400-12	0717-02	60-40-18	60-40-18	0.7040	–
65-45-12	GGG-50	SNG 500/7	FCD 500	F33100	GJS-500-7	FGS 500-7	GS 500/7	0727-02	65-45-12	65-45-12	0.7050	–
–	GGG-60	SNG 600/3	FCD 600-3	–	GJS-600-3	–	GS 600/3	–	80-55-06	80-55-06	0.7060	–
100-70-03	GGG-70	SNG 700/2	FCD 700	F34800	GJS-700-2	FGS 700-2	GS 700-2	0737-01	100-70-03	100-70-03	0.7070	–
120-90-02	GGG-80	SNG 800/2	FCD 800	F36200	GJS-800-2	FGS 800-2	GS 800-2	–	120-90-02	120-90-02	0.7080	–
A 439 Type D-2	GGG-NiCr202	L-NiCuCr 20 2	FCDA-NiCr 20 2	–	GJSA-XNiCr 20-2	L-NC 20 2	–	0523-00	–	–	0.7660	–
A 439 Type D-2C	GGG-Ni22	S-Ni 22	FCDA-Ni 22	F43002	GJSA-XNi 22	S-N 22	–	–	–	–	0.7670	–
A 439 Type D-4	GGG-NiSiCr3053	S-NiSiCr 30 5 5	FCDA-NiSiCr 30 5 4	F43005	GJSA-XNiSiCr 30-5-3	S-NSC 30 5 5	–	–	–	–	0.7680	–
–	GTW-40-05	W 40-05	FCMW 370	–	GJMW-400-5	MB 400-5	GMB 40	–	–	–	0.8040	–
–	GGV-40	–	–	–	GJV-400	–	–	–	–	–	0.9990	–
80-55-06	–	–	–	F33800	–	FGS 350-22	–	0732-03	D5506	–	–	–
–	–	–	–	–	–	–	–	–	D4018	–	–	–
–	–	–	–	–	–	–	–	–	D400	–	–	–
–	–	–	–	–	–	–	–	–	D4512	–	–	–
–	–	–	–	–	–	–	–	–	D450	–	–	–
–	–	–	–	–	–	–	–	–	M3210	–	–	–
–	–	–	–	–	–	–	–	–	M4504	–	–	–
–	–	–	–	–	–	–	–	–	M5003	–	–	–
–	–	–	–	–	–	–	–	–	M5503	–	–	–
–	–	–	–	–	–	–	–	–	M7002	–	–	–
–	–	–	–	–	–	–	–	–	D7003	–	–	–
–	–	–	–	–	–	–	–	–	M8501	A 602 M8501	–	–
–	GGV-45	–	–	–	GJV-450	–	–	–	–	–	–	–
–	GGG-SiMo3.08	–	–	–	–	–	–	–	–	–	–	–
–	GGG-SiMo4.10	–	–	–	–	–	–	–	–	–	–	–
–	GGG-SiMo5.10	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	HPI C13 06
–	GGV-35	–	–	–	GJV-350	–	–	–	–	–	–	–
–	GGV-50	–	–	–	GJV-500	–	–	–	–	–	–	–

K3 Workpiece Materials Listing • Cast Iron • K3

K3 High-Strength Ductile Irons and Austempered Ductile Iron (ADI) *Tensile Strength RM (MPa)*: >600* *Hardness (HB): 180–350 (HRC): <43*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	–	–	–	–	–	–	–	–	–	A 897 125-80-10	–	–
–	–	–	–	–	–	–	–	–	–	A 897 150-100-7	–	–
–	–	–	–	–	–	–	–	–	–	A 897 175-125-4	–	–
–	–	–	–	–	–	–	–	–	–	A 897 200-150-1	–	–
–	–	–	–	–	–	–	–	–	–	A 897 230-185	–	–

NOTE: For legend, see page Y237.

N1 Workpiece Materials Listing • Non-Ferrous Metals • N1

N1 Wrought Aluminum

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
1080	Al99.8	–	1A	–	–	–	–	–	–	–	3.0128	–
1050	Al99.5	L 31	1B	–	–	A 59050 C	–	–	–	–	3.0255	–
–	SG-Al 99,5	–	–	–	–	–	–	–	–	–	3.0259	–
1070	Al99.7	–	–	–	–	–	4508	–	–	–	3.0275	–
3103	AlMn	–	N3	–	–	–	–	–	–	–	3.0515	–
3003	AlMnCu	–	–	–	–	–	–	–	–	–	3.0517	–
3005	AlMn1Mg0.5	–	–	–	–	–	–	–	–	–	3.0525	–
3004	AlMn1Mg1	–	–	–	–	–	–	–	–	–	3.0526	–
–	AlMgSiPb	–	–	–	–	–	–	–	–	–	3.0615	–
–	SG-Al 99,5Ti	–	–	–	–	–	–	–	–	–	3.0805	–
–	SG-Al 99,5 Ti	–	–	–	–	–	–	–	–	–	3.0805	–
2014	AlCuSiMn	–	H15	–	–	A-U4SG	3581	–	–	–	3.1255	–
2017	AlCuMg 1	–	–	–	AW-2017 A	A-U4G	3579	–	–	–	3.1325	–
2024	AlCuMg 2	–	L97	–	AW-2024	A-U4G1	–	–	–	–	3.1355	–
–	AlCuMgPb	–	–	–	–	–	–	–	–	–	3.1645	–
2011	AlCuBiPb	–	FC1	–	–	A-U5PbBi	6362	–	–	–	3.1655	–
6082	AlMgSi 1	–	H30	–	AW-6005 A	A-SGM0.7	3571	–	–	–	3.2315	–
6060	AlMgSi0.5	–	–	–	–	–	–	–	–	–	3.3206	–
6063	AlMgSi0.7	–	H9	–	–	A-GS	3569	–	–	–	3.3206	–
6463	EAlMgSi0.5	–	91E	–	–	–	–	–	–	–	3.3207	–
5005	AlMg 1	–	N41	–	AW-6082	A-G0.6	5764-66	–	–	–	3.3315	–
5050	–	–	–	–	–	–	–	–	–	–	3.3316	–
5052	AlMg2.5	–	2L56	–	–	A-G2.5C	4574	–	–	–	3.3523	–
5754	AlMg 3	–	N5	–	–	A-G3M	3575	–	–	–	3.3535	–
5454	AlMg2.5Mn	–	N51	–	–	A-G2.5MC	7789	–	–	–	3.3537	–
5086	AlMg4Mn	–	–	–	–	–	–	–	–	–	3.3545	–
–	SG-Al Mg 4,5 Mn Zr	–	–	–	–	–	–	–	–	–	3.3546	–
5083	AlMg4,5Mn	–	N8	–	–	A-G4.5MC	7790	–	–	–	3.3547	–
5056	AlMg5	–	N6	–	–	A-G5	3576	–	–	–	3.3549	–
–	AlMg 5	–	–	–	–	–	–	–	–	–	3.3555	–
7050	AlZnMgCu0,5	L 86	–	–	–	AZ 4 GU/9051	811-04	–	–	–	3.4144	–
7020	AlZn4.5Mg1	–	H17	–	–	A-Z5G	–	–	–	–	3.4335	–
7022	AlZnMgCu0.5	–	–	–	–	–	–	–	–	–	3.4345	–
–	AlZn5,5MgCu	–	–	–	–	–	–	–	–	–	3.4365	–
7075	AlZnMgCu 1.5	–	DTD5074	A97075	AL-P7075	A-Z5GU	3735	–	7075	–	3.4365	–
1000	Al99.5H	L31	–	–	–	A59050C	–	–	–	–	3.0250	–
–	Al99.8	–	–	–	–	–	–	–	–	–	3.0280	–
–	AlMg3Mn	–	–	–	–	–	–	–	–	–	–	–
2025	–	–	A 2025 FD	A92025	–	–	–	–	2025	B 247 2025	–	–
1100	–	–	–	–	–	–	–	–	–	–	–	–
3105	–	–	–	–	–	–	–	–	–	–	–	–
5657	AlMg0.8Si	–	–	–	–	–	–	–	–	–	–	–
6070	–	–	–	–	–	–	–	–	–	–	–	–
6262	–	–	–	–	–	–	–	–	–	–	–	–
7003	–	–	–	–	–	–	–	–	–	–	–	–
2050	–	–	–	–	–	–	–	–	–	–	–	–
7475	–	–	–	–	–	–	–	–	–	–	–	–
7175	–	–	–	–	–	–	–	–	–	–	–	–
7178	–	–	–	–	–	–	–	–	–	–	–	–
5251	AlMg2Mo3	–	N4	–	–	A-G2M	3574	–	–	–	–	–
6151	–	–	–	–	–	–	–	–	–	–	–	–
7001	–	–	–	–	–	–	–	–	–	–	–	–
7040	–	–	–	–	–	–	–	–	–	–	–	–

N2 Workpiece Materials Listing • Non-Ferrous Metals • N2

N2 Low-Silicon Aluminum Alloys and Magnesium Alloys *Content: Si <12.2%*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	SG-Al99,8	–	–	–	–	–	–	–	–	–	3.0286	–
–	G-AlCu 4 TiMg	–	–	–	–	–	–	–	–	–	3.1371	–
–	G-AlCu 4 TiMg	–	–	–	–	–	–	–	–	–	3.1371	–
–	G-AlCu 5 Ni 1,5	–	–	–	–	–	–	–	–	–	3.1754	–
–	G-AlCu 4 Ti	–	–	–	–	–	–	–	–	–	3.1841	–
–	G-AlSi 5 Cu 1	–	–	–	–	–	–	–	–	–	3.2131	–
–	G-AlSi 6 Cu 4	–	–	–	–	–	–	–	–	–	3.2151	–
–	G-AlSi 8 Cu 3	–	–	–	–	–	–	–	–	–	3.2161	–
–	G-AlSi 9 Cu 3	–	–	–	–	–	–	–	–	–	3.2163	–
–	G-AlSi 1 1	–	–	–	–	–	–	–	–	–	3.2211	–
–	SG-AlSi 5	–	–	–	–	–	–	–	–	–	3.2245	–
–	SG-AlSi 5	–	–	–	–	–	–	–	–	–	3.2245	–
–	G-AlSi 5 Mg	–	–	–	–	–	–	–	–	–	3.2341	–
4218 B	G-AlSi 7 Mg	–	–	–	–	–	–	–	–	–	3.2371	–
–	G-AlSi 9 Mg	–	–	–	–	–	–	–	–	–	3.2373	–
–	G-AlSi 10 Mg	–	–	–	–	–	–	–	–	–	3.2381	–
–	G-D AlSi 10 Mg	–	–	–	–	–	–	–	–	–	3.2382	–
A 360.2	G-AlSi 10 Mg(Cu)	LM 9	–	–	–	–	–	4253	–	–	3.2383	–
A 413.0	G-D AlSi 12	–	–	–	–	–	–	4247	–	–	3.2582	–
–	SG-AlSi 12	–	–	–	–	–	–	–	–	–	3.2585	–
–	G-D AlSi 12(Cu)	–	–	–	–	–	–	–	–	–	3.2982	–
6061	AlMgSiCu	–	H20	–	–	A-GSUC	6170	–	–	–	3.3211	–
–	G-AlMg 3 Si	–	–	–	–	–	–	–	–	–	3.3241	–
–	G-AlMg 5 Si	–	–	–	–	–	–	–	–	–	3.3261	–
–	G-D AlMg 9	–	–	–	–	–	–	–	–	–	3.3292	–
–	G-AlMg5Si(Cu,Mn)	–	–	–	–	–	–	–	–	–	3.3458	–
–	SG-AlMg 3	–	–	–	–	–	–	–	–	–	3.3536	–

(continued)

N2 Workpiece Materials Listing • Non-Ferrous Metals • N2 *(continued)*

N2 Low-Silicon Aluminum Alloys and Magnesium Alloys *Content: Si <12.2%*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	G-AlMg 3	–	–	–	–	–	–	–	–	–	3.3541	–
–	SG-AlMg 4,5 Mn	–	–	–	–	–	–	–	–	–	3.3548	–
–	SG-AlMg 5	–	–	–	–	–	–	–	–	–	3.3556	–
–	G-AlMg 5	–	–	–	–	–	–	–	–	–	3.3561	–
ZE 41	G-MgZn 4 SE 1 Zr 1	MAG 5	–	–	MCMgZn 4 RE 1 Zr	G-Z 4 TR	–	–	–	–	3.5101	–
–	G-MgZn 5 Th 2 Zr 1	–	–	–	–	–	–	–	–	–	3.5102	–
EZ 33	MgSE 3 Zn 2 Zr 1	MAG 6	–	–	MCMgRE 3 Zn 2 Zr	G-TR 3 Z 2	–	–	–	–	3.5103	–
–	MgAl 9 Zn 1	–	–	–	–	–	–	–	–	–	3.5104	–
–	G-MgTh 3 Zn 2 Zr 1	–	–	–	–	–	–	–	–	–	3.5105	–
QE 22	G-MgAg 3 SE 2 Zr 1	MAG 12	–	–	MCMgRE 2 Ag 2 Zr	G-Ag 22,5	–	–	–	–	3.5106	–
–	G-D MgAl 6 Zn 1	–	–	–	–	–	–	–	–	–	3.5612	–
–	G-D MgAl 6	–	–	–	–	–	–	–	–	–	3.5662	–
AZ 81	G-MgAl 8 Zn 1	MAG 1	–	–	MCMgAl 8 Zn 1	G-A 9	–	–	–	–	3.5812	–
AZ 91	G-MgAl 9 Zn 1	MAG 7	–	–	MCMgAl 9 Zn 1	G-A 9 Z 1	–	–	–	–	3.5912	–
–	G-MgAl 8 Zn 1	–	–	–	–	–	–	–	–	–	3.5200	–
AS 41	G-D MgAl 4 Si 1	–	–	–	MCMgAl4Si	G-A4S 1	–	–	–	–	3.5470	–
–	G-AlZn10Si8Mg	–	–	–	–	–	–	–	–	–	–	–
AS 7 G	AlSi7Mg	–	–	–	–	–	–	–	–	–	–	–
2117	–	–	–	–	–	–	–	–	–	–	–	–
2218	AlCuMgNi2	–	–	–	–	–	–	–	–	–	–	–
2091	–	–	–	–	–	–	–	–	–	–	–	–
8090	–	–	–	–	–	–	–	–	–	–	–	–
2090	–	–	–	–	–	–	–	–	–	–	–	–
2224	–	–	–	–	–	–	–	–	–	–	–	–
2094	–	–	–	–	–	–	–	–	–	–	–	–
2095	–	–	–	–	–	–	–	–	–	–	–	–
2097	–	–	–	–	–	–	–	–	–	–	–	–
2098	–	–	–	–	–	–	–	–	–	–	–	–
2099	–	–	–	–	–	–	–	–	–	–	–	–
2195	–	–	–	–	–	–	–	–	–	–	–	–
2196	–	–	–	–	–	–	–	–	–	–	–	–
2197	–	–	–	–	–	–	–	–	–	–	–	–
2198	–	–	–	–	–	–	–	–	–	–	–	–
2297	–	–	–	–	–	–	–	–	–	–	–	–
2397	–	–	–	–	–	–	–	–	–	–	–	–
8017	–	–	–	–	–	–	–	–	–	–	–	–
8024	–	–	–	–	–	–	–	–	–	–	–	–
8091	–	–	–	–	–	–	–	–	–	–	–	–
8093	–	–	–	–	–	–	–	–	–	–	–	–
2199	–	–	–	–	–	–	–	–	–	–	–	–

N3 Workpiece Materials Listing • Non-Ferrous Metals • N3

N3 High-Silicon Aluminum Alloys and Magnesium Alloys *Content: Si >12.2%*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
A 413.1	G-AlSi 12(Cu)	LM 20	–	–	–	–	–	4260	–	–	3.2583	–
A 413.2	G-AlSi 12	LM 6	–	–	–	–	–	4261	–	–	3.2581	–
–	G-AlSi17Cu4Mg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi18CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi21CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi12CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi25CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	G-AlSi 21 CuNiMg	–	–	–	–	–	–	–	–	–	–	–
4032	–	–	–	–	–	–	–	–	–	–	–	–

N4 Workpiece Materials Listing • Non-Ferrous Metals • N4

N4 Copper-, Brass-, Zinc-Based on Machinability Index Range of 70–100

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
C 11000	E-Cu 58	C 101	–	–	–	Cn-a2	–	–	–	–	2.0065	–
C 81100	G-CuL 45	HCC 1	–	–	–	–	–	–	–	–	2.0082	–
C 81100	G-Cu L 50	HCC 1	–	–	–	–	–	–	–	–	2.0085	–
–	CuZn 40 MnPb	–	–	–	–	–	–	–	–	–	2.0241	–
C 26000	CuZn 30	CZ 102	C 2600	–	–	CuZn 30	–	–	–	–	2.0265	–
C 27200	CuZn 37	CZ 108	–	–	–	CuZn 37	C 2720	–	–	–	2.0321	–
–	CuZn 36 Pb 1.5	–	–	–	–	–	–	–	–	–	2.0331	–
–	S-CuZn40	–	–	–	–	–	–	–	–	–	2.0366	–
–	CuZn 39 Pb 3 + D567	–	–	–	–	–	–	–	–	–	2.0401	–
–	CuZn 40 Pb 2	–	–	–	–	–	–	–	–	–	2.0402	–
B-198	G-CuZn 15Si 4	–	–	–	–	–	–	–	–	–	2.0492	–
–	CuZn 40Al 1	–	–	–	–	–	–	–	–	–	2.0561	–
–	G-KCuZn 38 Al	–	–	–	–	–	–	–	–	–	2.0591	–
C 86500	G-CuZn 35 Al 1	HTB 1	–	–	–	U-Z 36 N 3	–	–	–	–	2.0592	–
–	G-KCuZn 37 Al 1	–	–	–	–	–	–	–	–	–	2.0595	–
C 86200	G-CuZn 34 Al 2	HTB 1	–	–	–	U-Z 36 N 3	–	–	–	–	2.0596	–
–	G-CuZn 25 Al 5	–	–	–	–	–	–	–	–	–	2.0598	–
–	S - CuNi 30 Fe	–	–	–	–	–	–	–	–	–	2.0837	–
–	CuNi 10 Fe 1 Mn	–	–	–	–	–	–	–	–	–	2.0872	–

NOTE: For legend, see page Y237.

(continued)

N4 Workpiece Materials Listing • Non-Ferrous Metals • N4 *(continued)*

N4 Copper-, Brass-, Zinc-Based on Machinability Index Range of 70–100

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	S - CuNi 10 Fe	–	–	–	–	–	–	–	–	–	2.0873	–
–	CuNi 30 Mn 1 Fe	–	–	–	–	–	–	–	–	–	2.0882	–
–	SG-Cu Al 8	–	–	–	–	–	–	–	–	–	2.0921	–
–	SG-CuAl 8 Ni 2	–	–	–	–	–	–	–	–	–	2.0922	–
–	SG-CuAl 9 Ni5 Fe	–	–	–	–	–	–	–	–	–	2.0927	–
–	CuAl 10 Fe 3 Mn 2	CA 103	–	–	–	U-A 10 Fe	–	–	–	–	2.0936	–
–	SG-Cu Al 10 Fe	–	–	–	–	–	–	–	–	–	2.0937	–
C 63000	CuAl 10 Ni 5 Fe 4	Ca 104	–	–	–	U-A 10 N	–	–	–	–	2.0966	–
B-148-52	G-CuAl 10 Ni	–	–	–	–	–	–	–	–	–	2.0975	–
–	SG-Cu Sn	–	–	–	–	–	–	–	–	–	2.1006	–
–	SG-Cu Sn 6	–	–	–	–	–	–	–	–	–	2.1022	–
C 90800	G-CuSn 12	Pb 2	–	–	–	UE 12 P	–	–	–	–	2.1052	–
–	G-CuSn 12 Pb	–	–	–	–	–	–	–	–	–	2.1061	–
–	G-CuSn 10 Zn	–	–	–	–	–	–	–	–	–	2.1086	–
C 93200	G-CuSn 7 ZnPb	–	–	–	–	U-E 7 Z 5 Pb 4	–	–	–	–	2.1090	–
–	G-CuSn 6 ZnNi	LG 4	–	–	–	–	–	–	–	–	2.1093	–
C 83600	G-CuSn 5 ZnPb	LG 2	–	–	–	U-E 5 Pb 5 Z 5	–	–	–	–	2.1096	–
–	G-CuSn 2 ZnPb	–	–	–	–	–	–	–	–	–	2.1098	–
C 93700	G-CuPb 10 Sn	LB 2	–	–	–	U-E 10 Pb 10	–	–	–	–	2.1176	–
C 93800	G-CuPb 15 Sn	LB 1	–	–	–	U-Pb 15 E 8	–	–	–	–	2.1182	–
C 94100	G-CuPb 20 Sn	LB 5	–	–	–	U-Pb 20	–	–	–	–	2.1188	–
C 81500	G-CuCrF 35	CC1-FF	–	–	–	–	–	–	–	–	2.1292	–
C 18200	CuCrZr	CC 102	–	–	–	U-Cr 0,8 Zr	–	–	–	–	2.1293	–
–	SG-Cu Mn 13 Al 7	–	–	–	–	–	–	–	–	–	2.1367	–
–	SG-Cu Si 3	–	–	–	–	–	–	–	–	–	2.1461	–
CuSi 3 Mn	–	–	–	–	–	–	–	–	–	–	2.1525	–
–	OF-Cu	–	–	–	–	–	–	–	–	–	2.0040	–
B-120	E-Cu 57	–	–	–	–	–	–	–	–	–	2.0060	–
C 10300	SE-Cu	C 101	–	–	–	Cu-c1	–	–	–	–	2.0070	–
–	CuZn 5	–	–	–	–	–	–	–	–	–	2.0220	–
C 23000	CuZn 15	CZ 102	C 2300	–	–	CuZn 15	–	–	–	–	2.0240	–
–	G-CuZn 33 Pb	–	–	–	–	–	–	–	–	–	2.0290	–
–	CuZn 36 Pb 2	–	–	–	–	–	–	–	–	–	2.0330	–
–	G-CuZn 37 Pb	–	–	–	–	–	–	–	–	–	2.0340	–
–	CuZn 40	–	–	–	–	–	–	–	–	–	2.0360	–
–	CuZn 39 Pb 2	–	–	–	–	–	–	–	–	–	2.0380	–
–	CuZn 20 Al 2	–	–	–	–	–	–	–	–	–	2.0460	–
–	CuZn 37Al 1	–	–	–	–	–	–	–	–	–	2.0510	–
–	CuZn 40 Al 2	–	–	–	–	–	–	–	–	–	2.0550	–
–	G-CuZn 40 Fe	–	–	–	–	–	–	–	–	–	2.0590	–
–	G-CuAl 10 Fe	–	–	–	–	–	–	–	–	–	2.0940	–
C 90700	G-CuSn 10	CT 1	–	–	–	–	–	–	–	–	2.1050	–
C 91700	G-CuSn 12 Ni	–	–	–	–	–	–	–	–	–	2.1060	–
–	C35100	–	–	–	–	–	–	–	–	–	–	–
–	17665	–	–	C95500	–	–	–	–	–	–	–	–
–	MS60	–	–	–	–	–	–	–	–	–	–	–

N5 Workpiece Materials Listing • Non-Ferrous Metals • N5

N5 Nylon, Plastics, Rubbers, Phenolics, Resins, Fiberglass

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	LEXAN	–	–	–	–	–	–	–	–	–	–	–
–	HOSTALEN	–	–	–	–	–	–	–	–	–	–	–
–	Polystyrol	–	–	–	–	–	–	–	–	–	–	–
–	Makralon	–	–	–	–	–	–	–	–	–	–	–

N6 Workpiece Materials Listing • Non-Ferrous Metals • N6

N6 Carbon, Graphite Composites, CFRP

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	GFK	–	–	–	–	–	–	–	–	–	–	–
–	CFK	–	–	–	–	–	–	–	–	–	–	–
Graphite	–	–	–	–	–	–	–	–	–	–	–	–
CFRP	–	–	–	–	–	–	–	–	–	–	–	–

S1 Workpiece Materials Listing • High-Temp Alloys • S1

S1 Iron-Based, Heat-Resistant Alloys *Tensile Strength RM (MPa)*: 500–1200* *Hardness (HB): 160–260 (HRC): 25–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	X 10 Cr 25	–	–	–	–	–	–	–	–	–	1.3811	–
–	D 1 a	–	–	–	–	–	–	–	–	–	1.3915	–
–	D 3	BD 3	–	–	X 210 Cr 1 2	Z 200 C 12	X 205 Cr 12 KU	–	–	–	1.3916	–
–	RNi 12	–	–	–	–	–	–	–	–	–	1.3926	–
–	RNi 8	–	–	–	–	–	–	–	–	–	1.3927	–
–	GX 2 NiCoMoTi1 7 10	–	–	–	–	–	–	–	–	–	1.6351	Maraging
6501, 6512, 6520	X 2 NiCoMo 18 8 5	–	–	UNS K92890	S162	Z2NKD18.8	–	–	–	ASTM A646	1.6359	ATI VascoMax® C-250
–	X 2 NiCoMo 18-8-5	–	–	K92890	–	–	–	–	–	–	1.6359	Maraging
–	X 1 CrNiCoMo 13 8 5	–	–	–	–	–	–	–	–	–	–	Maraging
–	Ni 36	–	–	–	–	–	–	–	–	–	1.3910	Magnifer 36
–	Ni 46	–	–	–	–	–	–	–	–	–	1.3920	–
–	X 2 CrNiCoMo 12 8 5	–	–	–	–	–	–	–	–	–	1.6980	Maraging
ASTM B463	–	–	–	UNS N08020	–	–	–	–	–	ASTM B463	2.4660	20CB-3
ASTM A666	–	–	–	–	–	–	–	–	–	ASTM A666	–	6/21/09
ASTM B753	–	–	–	–	–	–	–	–	–	ASTM B753	–	AL 4750
S66286	–	–	NAS 660	UNS S66286	–	–	A-286	–	–	–	–	ATI A286™
–	–	–	–	UNS K92810	–	–	–	–	–	–	–	ATI VascoMax® C-200
6514	–	–	–	UNS K93120	–	–	–	–	–	–	–	ATI VascoMax® C-300
–	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® C-350
–	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® T-200
6518, 6519, 6591	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® T-250
–	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® T-300
5725	–	–	–	–	–	Z3NCT25	–	–	SAE 16-25-6	–	–	Discaloy 16-25-6
ASTM A638	–	–	–	–	–	Z3NCT25	–	–	Discaloy	ASTM A638	–	Discaloy 24
–	–	–	–	R30556	–	–	–	–	–	–	–	Haynes® 556
5768	X 12 CrCoNi 21 20	–	–	–	–	Z12CKNDWNb21.20.20	–	–	–	–	–	Haynes 556
ASTM F30	–	–	–	–	–	–	–	–	Invar	ASTM F30	–	Invar 42
5768	–	–	–	UNS R30155	–	Z12CNKDW20	–	–	–	–	–	Multimet N-155
–	–	–	–	–	–	–	–	–	–	–	–	Multimet N-156
5533	X 40 CoCrNi 20 20	–	–	–	–	Z42CKNDW	–	–	–	–	–	S 590
–	X 2 NiCrAlTi 32 20	–	–	–	–	–	–	–	–	–	–	Sanicro 30
AISI:665	–	–	–	–	–	Z8NCTDA2613	–	–	–	–	–	W-545

S2 Workpiece Materials Listing • High-Temp Alloys • S2

S2 Cobalt-Based, Heat-Resistant Alloys *Tensile Strength RM (MPa)*: 1000–1450* *Hardness (HB): 250–450 (HRC): 25–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	CoCr 26 Ni 9 Mo	–	–	–	–	–	–	–	–	–	2.4681	–
–	CoCr 25 NiW	–	–	–	–	KC25WN	–	–	–	ASTM A567	2.4682	Stellite® 31 (X40)
–	CoCr 22 NiW	–	–	–	–	–	–	–	–	–	2.4683	–
–	CoCr 28 Mo	–	–	–	–	KC27D5NFe	–	–	–	ASTM F-75	2.4691	HS 21
–	CoCr 20 Ni 15 Mo	–	–	–	–	–	–	–	–	–	2.4711	–
–	CoCr 29 Mo	–	–	–	–	–	–	–	–	–	2.4723	–
–	CoCr 33 W	–	–	–	–	–	–	–	–	–	2.4775	–
–	CoCr 28	–	–	–	–	–	–	–	–	–	2.4778	–
–	CoCr 28 Nb	–	–	–	–	–	–	–	–	–	2.4779	–
–	–	–	–	–	–	–	–	–	–	ASTM F90	2.4964	F 90
–	–	–	–	R30605	–	KC20WN	–	–	–	–	2.4964	Haynes 25
–	CoCr 20 W 15 Ni	HR 240	–	R30605	–	KC20WN	–	–	–	5759	2.4964	L 605
–	CoCr 20 W 15 Ni	–	–	CAST Version of L605	–	KC20WN	–	–	–	5759	2.4964	Stellite 25
AMS 5399	NiCr 19 Co 11 MoTi	–	–	–	–	NC 19 KDT	–	–	–	–	2.4973	–
–	CoCr 20 Ni 20 W	–	–	–	–	–	–	–	–	5534	2.4979	S 816
–	CoCr20NiW	–	–	–	–	–	–	–	–	–	2.4989	–
–	–	–	–	R31537 & R31538	–	CoCr28Mo	–	–	–	ASTM F1537	–	F 1537
–	–	–	–	–	–	–	–	–	–	ASTM F562	–	F 562
–	–	–	–	–	–	–	–	–	–	ASTM F563	–	F 563
–	–	–	–	R30188	–	KC22N22W14Fe	–	–	–	–	–	Haynes 188
AISI 670	CoCr 20 W 15 Ni	–	–	–	–	KC20WN	–	–	–	–	–	HS 25
–	CoCr 26 Ni 14 Mo	–	–	–	–	–	–	–	–	5380	–	HS 30
–	CoCr 19 W 14 NiB	–	–	–	–	–	–	–	–	–	–	HS 36
–	–	–	–	–	–	–	–	–	–	–	–	L 251
–	CoCrW 10 TaZrB	–	–	–	–	KC21W10Ta9	–	–	–	–	–	MAR-M 302
–	CoCr 22 W 9 TaZrNb	–	–	–	–	KC21W9Ta	–	–	–	–	–	MAR-M 322
–	CoCr 24 Ni 10 WTaZrB	–	–	–	–	KC23N10W7Ta	–	–	–	–	–	MAR-M 509
–	–	–	–	–	–	KC20N20Ta7	–	–	–	–	–	MAR-M 905
–	CoCr 20 Ni 20 Ta	–	–	–	–	KC20N20Ta7	–	–	–	–	–	MAR-M 918
–	–	–	–	R30159	–	–	–	–	–	–	–	MP159
–	–	–	–	R30035	–	–	–	–	–	–	–	MP35N
–	–	–	–	–	–	KC33W13	–	–	–	–	–	Stellite 1
–	–	–	–	–	–	KC28W8	–	–	–	–	–	Stellite 12
–	–	–	–	–	–	KC22N22W14Fe	–	–	–	–	–	Stellite 188
–	–	–	–	–	–	KC26NW	–	–	–	–	–	Stellite 6
–	–	–	–	–	–	–	–	–	–	–	–	Stellite 8 (F75)
–	CoCr 25 Ni 20 MoWNb	–	–	–	–	KC25N20DFeWNb	–	–	–	–	–	V-36
–	CoCr 21 Mo 11 W	–	–	–	–	KC21W11ANbT	–	–	–	–	–	WI-52
–	–	–	–	–	–	KC25N10W7Fe	–	–	–	–	–	X 45
–	–	–	–	–	–	–	–	–	J-1570	–	–	–
–	K13C20N126Fe15D7	–	–	R3003 & R3008	–	K13C20N126Fe15D7	–	–	–	ASTM F1058	–	–

NOTE: For legend, see page Y237.

S3 Workpiece Materials Listing • High-Temp Alloys • S3

S3 Nickel-Based, Heat-Resistant Alloys *Tensile Strength RM (MPa)*: 600–1700* *Hardness (HB): 160–450 (HRC): <48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	X 7 NiCrCoMo 54 20	–	–	–	–	–	–	–	–	–	1.2789	–
–	Ni 99,7 Mg 0,07	–	–	J24053	–	–	–	–	–	A 915 J24053	2.4053	–
–	LC-Ni 99,6	–	–	N02201	–	–	–	–	–	–	2.4061	–
–	–	–	–	N02200	–	–	–	–	–	–	2.4066	200
Nickel 200	Ni 99,2	NA 11	–	N02200	–	–	–	–	–	–	2.4066	–
–	–	–	–	N02201	–	–	–	–	–	–	2.4068	201
Nickel 201	LC-Ni 99	NA 12	–	–	–	–	–	–	–	–	2.4068	–
–	NiMn 1	–	–	–	–	–	–	–	–	–	2.4106	–
–	NiMn 1 C	–	–	–	–	–	–	–	–	–	2.4108	–
–	NiMn 1,5	–	–	–	–	–	–	–	–	–	2.4109	–
–	NiMn 3 Al	–	–	–	–	–	–	–	–	–	2.4122	–
–	NiMn 3 SiMg	–	–	–	–	–	–	–	–	–	2.4126	–
–	NiCr 2 Mn	–	–	–	–	–	–	–	–	–	2.4145	–
–	NiCr 2 MnSi	–	–	–	–	–	–	–	–	–	2.4146	–
–	NiCr 5 MnSi	–	–	–	–	–	–	–	–	–	2.4151	–
–	SG-NiTi 4	NA32	–	–	NA 32	–	–	–	–	–	2.4155	–
CZ-100	G-Ni 93 C	–	–	–	–	–	–	–	–	–	2.4175	–
–	NiCr 4 Mn	–	–	–	–	–	–	–	–	–	2.4199	–
M 35-1/2	G-NiCu 30 Nb	–	–	N24030	–	–	–	–	–	–	2.4365	–
–	EL-NiCu 30 Mn	–	–	N04402	–	–	–	–	–	–	2.4366	–
M 30-H	G-NiCu 30 Si 3	–	–	–	–	–	–	–	–	–	2.4367	–
M-255	G-NiCu 30 Si 4	–	–	–	–	–	–	–	–	–	2.4368	–
–	NiCu 30 Al	–	–	–	–	–	–	–	–	–	2.4374	–
–	NiCu 30 Al	NA 18	–	N05500	3072.76	NU 30 AT	–	–	–	–	2.4375	Monel® K500
–	SG-NiCu 30 MnTi	NA 33	–	–	–	–	–	–	–	–	2.4377	–
–	NiFe 16 CuCr	–	–	–	–	–	–	–	–	–	2.4501	–
–	G-NiMo 16 CrW	–	–	–	–	–	–	–	–	–	2.4537	–
–	NiCr 21 Mo 14 W	–	–	N26022	–	–	–	–	–	–	2.4602	INCONEL® alloy 622
–	NiCr 30 FeMo	–	–	–	–	–	–	–	–	–	2.4603	Hastelloy® G-30
–	–	–	–	N06059	–	–	–	–	–	ASTM B575	2.4605	Allcorr
–	NiCr 23 Mo 16 Al	–	–	–	–	–	–	–	–	–	2.4605	–
–	SG/UP-NiCr 23 Mo 16	–	–	–	–	–	–	–	–	–	2.4607	–
–	NiCr 26 MoW	–	–	–	–	–	–	–	–	–	2.4608	–
–	SG-NiMo 27	–	–	–	–	–	–	–	–	–	2.4615	–
–	NiMo 28	–	–	N10665	–	NiMo 28	–	–	–	–	2.4617	–
–	NiCr 22 Mo 6 Cu	–	–	–	–	–	–	–	–	–	2.4618	–
–	–	–	–	N06985	–	–	–	–	–	–	2.4619	Hastelloy G-3
–	NiCr 22 Mo 7 Cu	–	–	N06985	–	–	–	–	–	–	2.4619	–
–	SG-NiCr 23 Al	NA 49	–	–	–	–	–	–	–	–	2.4626	–
–	SG-NiCr 22 Co 12 Mo	NA 50	–	–	–	–	–	–	–	–	2.4627	–
–	NiCr 20 Ti	HR5	–	N06075	HR5, 203.4	NC 20 T	–	–	–	–	2.4630	Nimonic® 75
–	NiCr 20 TiAl	NA 20	NCF 80A	N07080	HR401, 601	NC 20 TA	–	–	–	–	2.4631	Nimonic 80A
–	NiCr 20 Co 18 Ti	NA 36	–	N07090	HR2, 202	NC20KTA	–	–	–	–	2.4632	Nimonic 90
–	NiCo 20 Cr 15 MoAlTi	–	–	N13021	HR3	NCKD20ATV	–	–	–	–	2.4634	Nimonic 105
–	NiCo 15 Cr 15 MoAlTi	HR4	–	–	HR401, 601	NCVK15ATD	–	–	–	–	2.4636	Nimonic 115
AISI 687	NiCo 15 Cr 15 MoAlTi	–	–	–	–	NCKD20AT	–	–	–	–	2.4636	Udimet® 700
–	NiCr 22 Mo 8 AlCuTi	–	–	–	–	–	–	–	–	–	2.4637	–
–	SG-NiCr 20	NA 34	–	–	–	–	–	–	–	–	2.4639	–
–	NiCr 21 Mo 6 Cu	–	NCF 600 TP	–	–	–	–	–	–	–	2.4641	–
–	NiCr 29 Fe	–	NCF 690	N06690	–	NC 30 Fe	–	–	–	–	2.4642	INCONEL® alloy 690
–	NiCr 25 FeAlYC	–	–	–	–	–	–	–	–	–	2.4647	–
–	NiCr 20 CoMoTi	NA 38	NCF 690	N07263	HR10	NCK 20 D	–	–	–	–	2.4650	Nimonic C263
–	EL-NiCr 26 Mo	–	–	–	–	–	–	–	–	–	2.4652	–
–	NiCr 19 Co 14 Mo 4 Ti	–	–	N07001	–	NC20K14Y	–	–	–	–	2.4654	Waspaloy
–	SG-NiCr 29 Mo	–	–	–	–	–	–	–	–	–	2.4656	–
–	NiCr 70 30	–	–	N06008	–	–	–	–	–	–	2.4658	–
–	SG-NiCr 30 Mo 5 W	–	–	–	–	–	–	–	–	–	2.4659	–
–	EL-NiCr 29 Mo 5 W	–	–	–	–	–	–	–	–	–	2.4661	–
–	NiFe 35 Cr 14 MoTi	–	–	N09901	–	Z8NCDT42	–	–	–	–	2.4662	INCOLOY® 901
–	NiCr 13 Mo 6 Ti 3	–	–	N09901	–	Z8NCDT42	–	–	–	–	2.4662	Nimonic 901
–	NiCr 23 Co 12 Mo	–	–	N06617	–	NC22K12D9A	–	–	–	–	2.4663	INCONEL® alloy 617
–	NiCr 22 FeMo	–	–	N06002	HR6, 204	NC22FeD	–	–	–	–	2.4665	Hastelloy X
–	NiCr 22 Fe 18 Mo	NA 40	–	N06002	–	NC22FeD	–	–	–	–	2.4665	INCONEL alloy HX
–	NiCr 18 CoMo	–	–	–	–	NKCD20ATU	–	–	–	–	2.4666	Nimonic PK25
–	SG-NiCr 19 NbMoTi	NA 51	–	–	–	–	–	–	–	–	2.4667	–
–	NiCr 19 FeNbMo	–	–	N07718	HR8	NC 19 Fe Nb	–	–	–	–	2.4668	INCONEL alloy 718
–	NiCr 15 Fe 7 TiAl	–	–	N07750	–	NC 15 Fe 7 TA	–	–	–	–	2.4669	INCONEL alloy X750
–	G-NiCr 12 Al 6 MoNb	–	–	–	–	–	–	–	–	–	2.4671	–
–	G-NiCr 20 Co 20 MoTi	–	–	–	–	–	–	–	–	–	2.4672	–
–	NiCo 15 Cr 10 MoAlTi	–	–	N13100	–	NK15CAT	–	–	–	–	2.4674	IN 100
–	NiCo 15 Cr 10 MoAlTi	–	–	–	–	NK15C10A5T	–	–	–	–	2.4674	René 100
–	G-NiCo 15 Cr 10 AlTiMo	–	–	–	–	–	–	–	–	–	2.4674	–
–	G-NiCo 10 W 10 CrAlNb	–	–	–	–	–	–	–	–	–	2.4676	–
–	G-NiCr 50	–	–	–	–	–	–	–	–	–	2.4678	–
–	G-NiCr 35	–	–	–	–	–	–	–	–	–	2.4679	–
–	–	–	–	N10665	–	–	–	–	–	N7M	2.4685	Hastelloy B-2
CW-12 MW	G-NiMo 17 CrW	–	–	–	–	–	–	–	–	–	2.4686	–
–	NiCr 25 Mo 7 Ti	–	–	–	–	–	–	–	–	–	2.4693	–
–	NiCr 16 Fe 7 TiAl	–	–	N 07751	–	–	–	–	–	–	2.4694	INCONEL alloy 751
–	G-NiCr 20 Mo 15	–	–	–	–	–	–	–	–	–	2.4697	–
–	NiCr 22 W 14 Mo	–	–	–	–	–	–	–	–	–	2.4733	–
–	NiCr 20 AlY	–	–	–	–	–	–	–	–	–	2.4764	–
–	NiCr 17 AlWY	–	–	–	–	–	–	–	–	–	2.4765	–
–	SG-NiCr 20 Nb	NA 35	–	–	–	–	–	–	–	–	2.4806	–
–	G-NiCr 50 Nb	–	–	–	–	–	–	–	–	–	2.4813	–
–	NiCr 15 Fe	NA 14	NCF 600	N06600	3072.76	NC 15 Fe	–	–	–	–	2.4816	INCONEL alloy 600
–	G-NiMo 30	–	–	N10276	–	NC 15 D 14 KFe	–	–	–	–	2.4819	Hastelloy C-276
ASME SB575	NiMo 16 Cr 15 W	–	–	N10276	–	NC 17 D	–	–	–	–	2.4819	Nimonic C276

(continued)

S3 Workpiece Materials Listing • High-Temp Alloys • S3 *(continued)*

S3 Nickel-Based, Heat-Resistant Alloys *Tensile Strength RM (MPa)*: 600–1700* *Hardness (HB): 160–450 (HRC): <48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	SG-NiCr 21 Mo 9 Nb	–	–	–	–	–	–	–	–	–	2.4831	–
–	NiCr 20 Mo 15	–	–	–	–	–	–	–	–	–	2.4836	–
–	SG-NiCr 20 Mo 15	–	–	–	–	–	–	–	–	–	2.4839	–
–	–	–	–	N06601	–	–	–	–	–	–	2.4851	Haynes® 601
–	NiCr 23 Fe	–	NCF 601	N06601	–	NC 23 Fe 14 A	–	–	–	–	2.4851	INCONEL alloy 601
–	NiFe 33 Cr 25 Co	–	–	–	–	–	–	–	–	–	2.4854	–
–	NiCr 19 Mo 9 Si	–	–	–	–	–	–	–	–	–	2.4855	–
ASME SB443	NiCr 22 Mo 9 Nb	–	–	N06625	–	NC 22 Fe DNb	–	–	–	–	2.4856	Haynes 625
ASME SB443.4	NiCr 22 Mo 9 Nb	NA 21	NCF 625	N06625	–	NC 22 Fe DNb	–	–	–	–	2.4856	INCONEL alloy 625
ASME SB163	NiCr 21 Mo	–	–	N08825	3072.76	NC21FeDU	–	–	–	–	2.4858	INCOLOY® 825
–	NiCr 60 15	–	–	–	–	–	–	–	–	–	2.4867	–
–	NiCr 80 20	–	–	–	–	–	–	–	–	–	2.4869	–
–	NiCr 20 AlSi	–	–	–	–	–	–	–	–	–	2.4872	–
–	G-NiCr 28 W	–	–	–	–	–	–	–	–	–	2.4879	Centralloy® 4879
–	NiCr 17 Mo 17 FeW	–	–	N10002	–	NC17DWY	–	–	–	CW12MW	2.4883	Hastelloy C
–	G-NiMo 16 Cr	–	–	–	–	–	–	–	–	–	2.4883	–
–	SG-NiMo 16 cr 16 W	NA 48	–	–	–	–	–	–	–	–	2.4886	–
–	G-NiCr 13 MoAl	–	–	–	–	–	–	–	–	–	2.4888	–
–	NiCr 20 Ti	HR 5	–	N06621	–	NC 20 T	–	–	–	–	2.4951	–
–	NiCr 20 TiAl	NA 20	NCF 80 A	N07080	–	NC 20 TA	–	–	–	–	2.4952	–
–	NiFe 25 Cr 20 NbTi	–	–	–	NiFe 25 Cr 20 NbTi	–	–	–	–	–	2.4955	–
–	NiCr 20 Co 18 Ti	NA 19	–	N07090	–	–	–	–	–	–	2.4969	–
–	NiCr 22 W 12 Fe	–	–	–	–	–	–	–	–	–	2.4972	–
–	NiCr 19 Co 11 MoTi	–	–	N07041	–	NC19KDT	–	–	–	–	2.4973	René 41
–	NiFeCr 12 Mo	–	–	–	–	–	–	–	–	–	2.4975	–
–	NiCr 20 Mo	–	–	–	–	–	–	–	–	–	2.4976	–
–	NiCr 20 CoMo	–	–	–	–	–	–	–	–	–	2.4982	–
–	NiCr 18 Co	–	–	N07500	–	–	–	–	–	–	2.4983	Co500
AISI 684	NiCr 18 CoMoAlTi	–	–	N07500	–	NCK19DAT	–	–	–	–	2.4983	Udimet® 500
–	Ni 99,6	NA 46	–	–	–	–	–	–	–	–	2.4060	–
–	NiMn 2	–	–	–	–	–	–	–	–	–	2.4110	–
SZ-100	G-Ni 95	–	–	–	–	–	–	–	–	–	2.4170	–
–	G-Ni 93 Si	–	–	–	–	–	–	–	–	–	2.4180	–
–	NiCu 30 Fe	–	–	N04400	3072.76	NU30	–	–	–	–	2.4360	Monel® 400
–	NiCu 30 Ti	–	–	–	–	–	–	–	–	–	2.4370	Monel 60
–	NiFe 44	–	–	–	–	–	–	–	–	–	2.4420	Magnifer 53
–	NiFe 16 CuMo	–	–	–	–	–	–	–	–	–	2.4530	Perm 77
–	NiFeK 6040	–	–	–	–	–	–	–	–	–	2.4560	–
–	NiMo 16 Cr 16 Ti	NA 45	–	N26455	–	–	–	–	–	–	2.4610	Hastelloy C-4
–	–	–	–	–	–	20CB-3	–	–	–	ASTM B463	2.4660	INCOLOY 020
–	NiCr 20 CuMo	–	–	N08020	–	–	–	–	–	–	2.4660	–
–	G-NiCr 13 Al 16 MoNb	–	–	–	HC203	NC13AD	–	–	–	–	2.4670	Nimocast 713
–	G-NiCr 50 Nb	–	–	–	–	–	–	–	–	–	2.4680	–
–	NiMo 23 Cr 8 Fe	–	–	–	–	–	–	–	–	–	2.4710	–
–	NiMo 30	–	–	–	–	ND27FeV	–	–	–	N-12 MV	2.4810	Hastelloy B
–	NiCr 45 23	–	–	–	–	–	–	–	–	–	2.4890	–
–	–	–	–	N13017	–	NK17C15D5AT	–	–	–	–	–	Astroloy
–	–	–	–	–	–	–	–	–	–	–	–	Centralloy® 60HTD
AISI 686	–	–	–	–	–	NC15Fe10D5AT	–	–	–	–	–	GMR 235
–	NiCr 16 MoAl	–	–	–	–	NC15D5FeAT	–	–	–	–	–	GMR 235-D
–	–	–	–	–	–	–	–	–	–	CW6M	–	Hastelloy C-22
–	–	–	–	N06007	–	NC22Fe19D6KTa	–	–	–	–	–	Hastelloy G
–	–	–	–	N10003	–	–	–	–	–	–	–	Hastelloy N
–	–	–	–	N06635	–	NC15D14KFe	–	–	–	–	–	Hastelloy S
–	–	–	–	N10004	–	–	–	–	–	–	–	Hastelloy W
–	–	–	–	N07263	–	NC20K20D6T	–	–	–	–	–	Haynes® 263
–	–	–	–	–	–	–	–	–	–	–	–	Haynes 282
–	NiCr 15 Fe	–	–	N06600	–	–	–	–	–	–	–	Haynes 600
–	–	–	–	–	–	–	–	–	–	–	–	Haynes 75
–	NiCo 32 Cr 26 Mo	–	–	–	–	–	–	–	–	–	–	HS27
–	–	–	–	N06102	–	–	–	–	–	–	–	IN 102
ASME SB409	X 10 NiCrAlTi 32-20	–	–	N08800	3082.76	Z10NC3221	–	–	–	–	–	INCOLOY 800
–	–	–	–	–	–	Z4NC3221	–	–	–	–	–	INCOLOY 802
–	–	–	–	–	–	NC29Fe25	–	–	–	–	–	INCOLOY 804
–	NiFe 42 K 15 Nb	–	–	N19903	–	Z3NK28	–	–	–	–	–	INCOLOY 903
–	–	–	–	N19907	–	–	–	–	–	–	–	INCOLOY 907
–	–	–	–	N09925	–	–	–	–	–	–	–	INCOLOY 925
–	–	–	–	N09945	–	–	–	–	–	–	–	INCOLOY 945
ASME SB575	–	–	–	–	–	NiMo16Cr15	–	–	–	–	–	INCONEL alloy 22
–	–	–	–	–	–	–	–	–	–	–	–	INCONEL alloy 230
–	–	–	–	–	–	–	–	–	–	–	–	INCONEL alloy 600SP
–	–	–	–	–	–	–	–	–	–	–	–	INCONEL alloy 62
–	–	–	–	N06626	–	–	–	–	–	–	–	INCONEL alloy 625LCF
–	–	–	–	–	–	NC15A	–	–	–	–	–	INCONEL alloy 702
–	–	–	–	N09706	–	NFe10C16NbT	–	–	–	–	–	INCONEL alloy 706
–	–	–	–	N07718	–	–	–	–	–	–	–	INCONEL alloy 718 OP
–	–	–	–	–	–	NC16Fe8TM	–	–	–	–	–	INCONEL alloy 721
–	NiCr 16 FeTi	–	–	N07722	–	NC16FeTi	–	–	–	–	–	INCONEL alloy 722
–	–	–	–	R30783	–	–	–	–	–	–	–	INCONEL alloy 783
–	–	–	–	N09925	–	–	–	–	–	B983 N09925	–	INCONEL alloy 925
–	–	–	–	N10276	–	–	–	–	–	–	–	INCONEL alloy C-276
–	–	–	–	N07754	–	–	–	–	–	–	–	INCONEL alloy MA754
–	–	–	–	N07751	–	–	–	–	–	–	–	INCONEL alloy X751
–	–	–	–	K93600 K93603	–	–	–	–	–	ASTM F1684	–	INVAR® 36
–	NiCr 20 Co 18 Ti	–	–	–	–	–	–	–	–	–	–	Jessop G81
–	G-NiCr 19 Co	–	–	N07252	–	–	–	–	–	–	–	M 252
–	–	–	–	N04405	–	–	–	–	–	–	–	Monel® R405

NOTE: For legend, see page Y237.

(continued)

S3 Workpiece Materials Listing • High-Temp Alloys • S3 *(continued)*

S3 Nickel-Based, Heat-Resistant Alloys *Tensile Strength RM (MPa)*: 600–1700* *Hardness (HB): 160–450 (HRC): <48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
–	NiFe 33 Cr 17 Mo	–	–	–	–	–	–	–	–	–	–	Nimocast PD16
–	–	–	–	–	HC202	NC20N13	–	–	–	–	–	Nimocast PE10
–	–	–	–	–	–	NC19K18Fe5TA	–	–	–	–	–	Nimonic® 95
ASME SB575	–	–	–	N06022	–	–	–	–	–	–	–	Nimonic C22
–	NiCr 22 Fe 18 Mo	–	–	–	HR6, 204	NC22FeD	–	–	–	–	–	Nimonic PE13
–	NiFe 33 Cr 17 Mo	–	–	–	HR207	NW11AC	–	–	–	–	–	Nimonic PE16
–	NiCr 20 Co 16 MoTi	–	–	–	–	NC19KDUN	–	–	–	–	–	Nimonic PK33
–	–	–	NCF 3015	–	–	–	–	–	–	–	–	NiReVa 3015
AISI 686	–	–	–	–	–	–	–	–	–	–	–	R-235
AISI 690	–	–	–	–	–	Z6NKCDT38	–	–	–	–	–	Refractaloy 26
–	–	–	–	–	–	NK10C8W7ATaTD	–	–	–	–	–	René 125
–	–	–	–	–	–	NK15C14D6AWT	–	–	–	–	–	René 65
–	–	–	–	–	–	NC15K15ADT	–	–	–	–	–	René 77
–	–	–	–	–	–	NC14K9T5DWA	–	–	–	–	–	René 80
–	–	–	–	–	–	NC14K8	–	–	–	–	–	René 95
–	NiTa 9 Co 8 W 6 CrAl	–	–	–	–	NTa9K7C6W5A5DT	–	–	–	–	–	TRW VIA
–	NiCr 19 NbMo	–	–	–	–	NC18Fe18Nb6DWT	–	–	–	–	–	Udimet® 630
–	–	–	–	–	–	NCK18TDA	–	–	–	–	–	Udimet 710
–	–	–	–	–	–	NC18K15TDA	–	–	–	–	–	Udimet 720

S4 Workpiece Materials Listing • High-Temp Alloys • S4

S4 Titanium and Titanium Alloys *Tensile Strength RM (MPa)*: 900–1600* *Hardness (HB): 300–400 (HRC): 33–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
R 50250	Ti-99.8	2 TA 1	–	UNS R50250	TA6, TA7, TA8, TA9	AIR:9182T35	–	–	–	ASTM B381F1	3.7025	ATI 30 CP Grade 1
R 50400	Ti-99.7	2 TA 2-5	–	UNS R50400	TA2.5	AIR:9182T40	–	–	–	ASTM B381F2	3.7035	ATI 40 CP Grade 2
–	SG-Ti 2	–	–	–	–	–	–	–	–	–	3.7036	–
R 50550	Ti-99.6	TA 3	–	UNS R50550	TA2, TA3, TA4, TA5	AIR:9182T50	–	–	–	ASTM B381F3	3.7055	ATI 55 CP Grade 3
R 50700	Ti-99.5	2 TA 6-9	–	UNS R50700	–	AIR:9182T60	–	–	–	ASTM B381F4	3.7065	ATI 70 CP Grade 4
–	TiNi 0,8 Mo 0,3	–	–	UNS R53400	–	–	–	–	Ti-3Al-1.5Mn	ASTM Grade 12	3.7105	–
Ti 5Al-2.5Sn	TiAl 5 Sn 2,5	–	–	UNS R54520	TA 14,17	T-A5E	–	–	Ti-5Al-2.5Sn	–	3.7115	ATI Grade 6
–	TiCu 2	2 TA 21-24	–	–	–	–	–	–	Ti-2Cu	–	3.7124	–
R 54620	TiAl 6 Sn 2 Zr 4 Mo 2 Si	–	–	UNS R54620	–	–	–	–	Ti-6Al-2Sn-2Zr-4Mo-2Si	–	3.7145	–
–	TiAl 6 ZrMo 0,5	TA 43	–	–	–	–	–	–	Ti-6-5-0.5	–	3.7155	–
R 56400	TiAl 6 V 4	TA 10-13	TC4	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V	–	–	Ti-6Al-4V	–	3.7164	ATI 6-4™
–	TiAl 6 V4	–	TC4	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V; AIR:9183	–	–	Ti-6Al-4V (Beta)	–	3.7164	–
R 56620	TiAl 6 V 6 Sn2	–	–	UNS R56620	–	–	–	–	Ti-6Al-6V-2Sn	–	3.7175	ATI 6-6-2™
–	TiAl 4 Mo 4 Sn 2	TA 45-51	–	–	–	–	–	–	Ti-4Al-4Mo-2Sn	–	3.7185	–
–	TiAl 3 V2.5	–	–	UNS R56320	–	–	–	–	Ti-3Al-2.5V	ASTM Grade 9	3.7195	ATI 3-2.5-MIL™
R 52250	Ti 1 Pd	TP 1	–	UNS R 52250	–	–	–	–	–	ASTM Grade 11	3.7225	–
R 52400	Ti 2 Pd	–	–	UNS R 52400	–	–	–	–	–	ASTM Grade 7	3.7235	–
–	Ti 3 Pd	–	–	–	–	–	–	–	–	–	3.7255	–
–	TiAl 5 Fe 2,5	–	–	–	–	–	–	–	Ti-5Al-2.5Fe	–	3.7110	–
–	TiV13Cr11Al3	–	–	–	–	–	–	–	Ti-13V-11Cr-3Al	–	–	11/13/03
–	Ti-10V-2Fe-3Al	–	–	–	–	–	–	–	Ti-10.2.3	–	–	ATI 10-2-3™
–	–	–	–	UNS R58153	–	–	–	–	Ti-15-333	–	–	ATI 15-333™
–	–	–	–	–	–	–	–	–	Ti-15Mo (Alpha + Beta)	–	–	ATI 15Mo™ (Alpha + Beta)
–	–	–	–	–	–	–	–	–	Ti-15Mo (Beta)	–	–	ATI 15Mo™ (Beta)
–	Ti5Al2Sn2Zr4Cr4Mo	–	–	UNS R58650	–	–	–	–	–	–	–	ATI 17™
–	TIAl 3 V 8 Cr 6 Mo 4 Z 4	–	–	–	–	–	–	–	Ti-3Al-8V-6Cr-4Mo-4Zr	ASTN Grade 19	–	ATI 38-644™
–	–	–	–	UNS R54250	–	–	–	–	Ti-425	ASTM B265	–	ATI 425®
–	–	–	–	–	–	–	–	–	Ti-425 MIL	–	–	ATI 425®-MIL
–	TiAl 4 Mo 4 Sn 2 Si 0.5	–	–	–	5103	T-A4DE	–	–	Ti-4Al-4Mo-2Sn-0.5Si	–	–	ATI 4-4-2™
–	–	–	–	–	–	–	–	–	Ti-45Nb	–	–	ATI 45Nb™
–	–	–	–	–	–	–	–	–	Ti-5Al-5V-5Mo-3Cr	–	–	ATI 5-5-5-3 PM™
–	–	–	–	–	–	–	–	–	Ti-6Al-2Sn-2Zr-2Mn-2Cr-0.2Si	–	–	ATI 6-2222™
–	–	–	–	UNS R54620	–	–	–	–	Ti-6Al-4Zr-2Mo-2Sn	–	–	ATI 6-2-4-2 PM™
–	TiAl6Zr4Mo2Sn2	–	–	UNS R54620 modified	–	–	–	–	Ti-6Al-4Zr-2Mo-2Sn-0.2Si	–	–	ATI 6-2-4-2-Si PM™
–	–	–	–	UNS R56260	–	–	–	–	Ti-6-2-4-6	–	–	ATI 6-2-4-6™
–	–	–	–	UNS R56401	–	–	–	–	Ti-6Al-4V ELI	–	–	ATI 6-4 ELI™
–	TiAl 6 V4	–	–	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V; AIR:9183	–	–	Ti-6Al-4V MIL	–	–	ATI 6-4-MIL™
–	TiAl 6 V4	–	–	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V; AIR:9183	–	–	Ti-6Al-4V MIL (HT)	–	–	ATI 6-4-MIL™
–	–	–	–	UNS R56700	–	–	–	–	Ti-6-7	ASTM F 1295	–	ATI 6-7™
–	TiAl8Mo1V1	–	–	UNS R54810	–	–	–	–	Ti-8Al-1Mo-1V	–	–	ATI 8-1-1™
–	–	–	–	–	–	–	–	–	Ti-15Mo-3Nb-3Al-0.2Si	ASTM Grade 21	–	Beta 21-S
–	–	–	–	–	–	–	–	–	Ti-12Mo-6Zr-2Fe	–	–	TMZF
–	TiAl7Nb	–	–	–	–	–	–	–	Ti-6Al-7Nb	–	–	–
–	TiAl7Mo4	–	–	–	–	–	–	–	–	ASTM B381	–	–
–	TiAl 4 Mo 4 Sn 4 Si 0.5	–	–	–	5203	–	–	–	Ti-4Al-4Mo-4Sn-0.5Si	–	–	–
–	TiA6Zr5Mo0.5Si0.25	–	–	–	–	T.AGZ.50	–	–	Ti-6Al-5Zr-0.5Mo-0.25Si	–	–	–
–	TiAl6Zr5Mo4CuSi0.2	–	–	–	M201	–	–	–	Ti-6Al-5Zr-4Mo-Cu-0.2Si	–	–	–
–	–	–	TC18	–	–	–	–	–	Ti-5Al-5Mo-5V-1Cr-1Fe	–	–	–
–	–	–	–	UNS %58210	–	–	–	–	Ti Beta 21 S	ASTM Grade 21	–	–
Ti 98.8	Ti 98.8	–	–	–	–	–	–	–	–	–	–	–
Ti 99.9	Ti 99.9	–	–	–	–	–	–	–	–	–	–	–
–	TiAL 6 Sn 2 Zr 4 Mo 2	–	–	–	–	–	–	–	–	–	–	–

NOTE: For legend, see page Y237.

H1 ■ Workpiece Materials Listing • Hardened Steels and Irons • H1

H1 Hardened Materials *Hardness (HRC): 44–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
H 11	X 38 CrMoV 5 H1	BH 11	SKD 6	T20811	X 38 CrMoV 5 H1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	–	–	–	1.2343	–
H11	X 38 CrMoV 5 H1	BH 11	SKD 6	T20811	X 38 CrMoV 5 H1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	–	–	–	1.2343	–
H 13	X 40 CrMoV 5 1	BH 13	SKD 61	T20813	X 40 CrMoV 5 1	Z 40 CDV 5	X 40 CrMoV 5 1 1 KU	2242	–	–	1.2344	–
H 10	X 32 CrMoV 3 3	BH 10	SKD 7	T 20810	X 32 CrMoV 12H-28	32 DCV 28	30 CrMoV 12 27 KU	–	–	–	1.2365	–
H19	X 45 CrCoVW 5 5 5	–	–	–	–	–	–	–	–	–	1.2678	–
A 532 I B NiCr-LC	GX 260 NiCr 42	Grade 2 A	0512-00	F45001	GJH-X260NiCr 4-2	–	–	0512-00	–	–	0.9620	–
L6	–	–	–	–	–	55 NCDV 07 (HT)	–	–	–	–	–	–

H2 ■ Workpiece Materials Listing • Hardened Steels and Irons • H2

H2 Hardened Materials *Hardness (HRC): 48–55*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
A 532 I A NiCr-HC	G-X 330 NiCr 42	Grade 2 B	0513-00	F45000	GJH-X330NiCr 4-2	FB Ni 4 Cr2 HC	–	0513-00	–	–	0.9625	–
H 21	X 30 WCrV 93	BH 21	SKD 5	T 20821	X 30 WCrV 9 3	Z 30 WCV 9	X 30 WCrV 9 3 KU	–	–	–	1.2581	–
H 12	X 37 CrMoW 5 1	BH 12	SKD 62	T20812	–	Z 35 CWDV 5	X 35 CrMoW 05 KU	–	–	–	1.2606	–
–	G-X 300 NiMo 3 Mg	–	–	–	GJH-X300NiMo 3 Mg	–	–	–	–	–	0.9610	–
A 532 I B NiCr-LC	GX 260 NiCr 42	Grade 2 A	0512-00	F45001	GJH-X260NiCr 4-2	–	–	0512-00	–	–	0.9620	–
A 532 III A 25% Cr	GX 260 Cr 27	Grade 3 D	0466-00	–	GJH-X260Cr 27	–	–	–	–	–	0.9650	–
–	X 2 NiCoMoTi 180905	–	–	–	–	Z 2 NKD 180905	–	–	–	–	–	Durimphy
K12	–	–	–	–	–	–	–	–	–	–	–	ATI K12 MIL

H3 ■ Workpiece Materials Listing • Hardened Steels and Irons • H3

H3 Hardened Materials *Hardness (HRC): 56–60*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
A 532 IIC15% CrMo-HC	G-X 300CrMo 15 3	Grade 3 A	–	–	GJH-X300CrMo 15-3	–	–	–	–	–	0.9635	–
–	G-X 300 CrMoNi 15 2 1	Grade 3 B	–	F45005	GJH-X300CrMoNi15-2-1	–	–	–	–	–	0.9640	–
A 532 IID20% CrMo-LC	GX 260 CrMoNi 20 2 1	Grade 3 C	–	F45007	GJH-X260CrMoNi20-2-1	–	–	–	–	–	0.9645	–
A 532 III A 25% Cr	G-X 300 CrMo 27 1	Grade 3 E	–	–	GJH-X300CrMo 27-1	–	–	–	–	–	0.9655	–
A 2	X 100 CrMoV 5 1	SKD 12	–	–	BA 2	Z 100 CDV 5 (HT)	X 100 CrMoV 51 KU	2260	–	–	1.2363	–
D7 (HT)	–	–	–	T30407	–	Z 230 CVA 12 04	–	–	–	–	1.2378	–
O 2	90 MnCrV 8	BO 2	–	T31502	90 MnV 8	90 MnV 8	90 MnVCr 8 KU	–	–	–	1.2842	–
A 532 I D Ni-HiCr	G-X 300 CrNiSi 95 2	Grade 2 C	0457-00	F45003	GJH-X300CrNiSi 9-5-2	–	–	–	–	–	0.9630	Nihard type 4
S 1	60 WCrV 7	BS 1	–	–	6020 WCrV 8	55 WC 20	55 WCrV 8 KU	–	–	–	1.2550	–
S 1	60 WCrV 7	BS 1	–	–	60 WCrV 8	55 WC 20	55 WCrV 8 UK	–	–	–	1.2550	–
S 7	50 CrMoV 13 14	–	–	–	–	–	–	–	–	–	–	Cryodur 2357
K 12 (HT)	–	–	–	–	–	–	–	–	–	–	–	ATI K12-MIL

H4 ■ Workpiece Materials Listing • Hardened Steels and Irons • H4

H4 Hardened Materials *Hardness (HRC): >60*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Material Number	Manufacturer Reference
W 108	C 80 W 1	–	–	T72301	C 80 U	Y1 90	C 80 KU	1880	–	–	1.1525	–
D 2	X 155 CrVMo 12 1	BD 2	SKD §§	T 30402	X 153 CrMoV 12	Z 160 CDV 12	X 155 CrVMo 12 1 KU	2310	–	–	1.2379	–
–	100 WV4	–	SKS 21	–	–	–	–	–	–	–	1.2515	–
D 3	X 210 Cr 12	BD 3	SKD 1	T30403	X 210 Cr 1 2	Z 200 C 12	X 205 Cr 12 KU	–	–	–	1.2080	–
O 7	110 WCrV 5	–	–	–	–	–	–	–	–	–	–	–
–	Mh97 + Pb	–	–	–	–	–	–	–	–	–	–	LAW 100 Pb

■ Workpiece Materials Listing Legend

* 1 Mpa = 145 psi.
** Includes ASTM and SAE material specifications.
AISI — American Iron and Steel Institute
AFNOR — French National Organization for Standardization
AMS — Aerospace Material Specifications
ASTM — American Society of Mechanical Engineers
BS — British Standards
DIN — German Institute for Standardization
EN — European Standards
JIS — Japanese Industrial Standards
SAE — Society of Automotive Engineers
SIS — Swedish Standards Institute
UNI — Italian Organization for Standardization
UNS — Unified Numbering System

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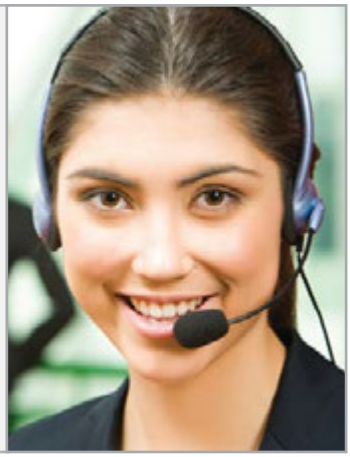

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Numbers shown only serve the originating country listed.

METALCUTTING SAFETY

IMPORTANT SAFETY INSTRUCTIONS

Read before using the tools in this catalog!

Projectile and Fragmentation Hazards:

Modern metalcutting operations involve high spindle and cutter speeds and high temperatures and cutting forces. Hot metal chips may fly off the workpiece during metalcutting. Although cutting tools are designed and manufactured to withstand high cutting forces and temperatures, they can sometimes fragment, particularly if they are subjected to over-stress, severe impact, or other abuse.

To avoid injury:

- Always wear appropriate personal protective equipment, including safety goggles, when operating metalcutting machines or working nearby.
- Always make sure all machine guards are in place.

Breathing and Skin Contact Hazards:

Grinding carbide or other advanced cutting tool materials produces dust or mist containing metallic particles. Breathing this dust or mist — especially over an extended period — can cause temporary or permanent lung disease or make existing medical conditions worse. Contact with this dust or mist can irritate eyes, skin, and mucous membranes and may make existing skin conditions worse.

To avoid injury:

- Always wear breathing protection and safety goggles when grinding.
- Provide ventilation control and collect and properly dispose of dust, mist, or sludge from grinding.
- Avoid skin contact with dust or mist.

For more information, read the applicable Material Safety Data Sheet provided by Kennametal and consult General Industry Safety and Health Regulations, Part 1910, Title 29 of the Code of Federal Regulations.

These safety instructions are general guidelines. Many variables affect machining operations. It is impossible to cover every specific situation. The technical information included in this catalog and recommendations on machining practices may not apply to your particular operation. For more information, consult the Kennametal Metalcutting Safety booklet, available free from Kennametal at 724 539 5747 or fax 724 539 5439. For specific product safety and environmental questions, contact our Corporate Environmental Health and Safety Office at 724 539 5066 or fax 724 539 5372.

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