

beyond™ **DRIVE™**

INNOVATIONS **PREVIEW** 2016



www.kennametal.com

KENNAMETAL®

KM4X™

The next generation of KM™ offers higher clamping forces and interference levels that lead to a robust connection and extremely high stiffness and bending load capacity resulting in unmatched performance from both lathe and machining centres.



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Kennametal Product Highlights

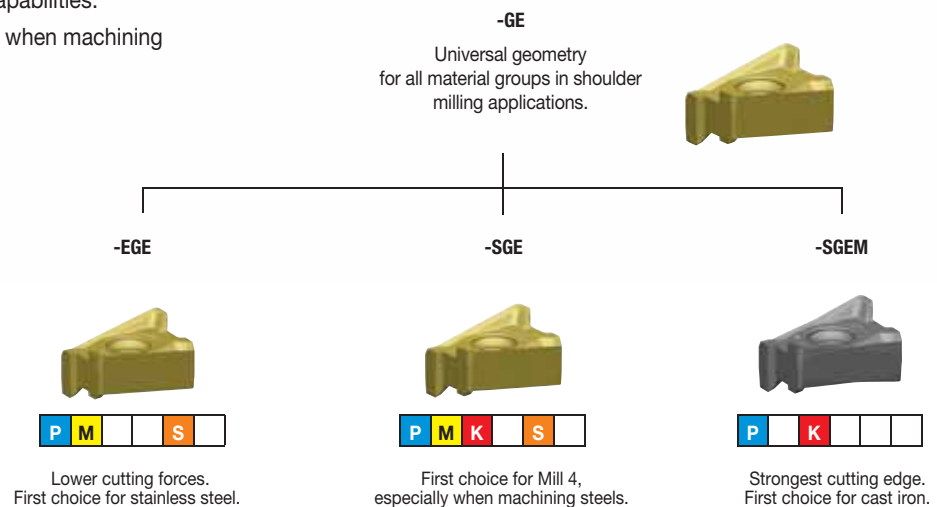
Mill 4-15™ • Double-Sided Shoulder Milling

Primary Application

The Mill 4™ Series is specially engineered to achieve excellent performance in surface quality as well as higher material removal rates in shoulder milling applications. Its unique design enables multiple passes (stepping down) with outstanding results. Mill 4 is applicable in a wide range of workpiece materials: steel, cast iron, stainless steel, and titanium, from roughing to finishing operations.

Features and Benefits

- Double-sided strong insert with 4 cutting edges.
- High positive geometry for lower cutting forces.
- Superior wall and surface finish capabilities.
- “Stepless” solution. No mismatch when machining walls in different steps.



State-of-the-art stepping down capabilities
— “stepless” solution!

Screw-on, end mill, and shell mill
cutters with effective internal
coolant supply.

Multiple corner nose
radii available.

Up to 15,5mm
depth-of-cut capabilities.

Integrated wiper facet for
best-in-class floor finishing.

Innovative cutting geometry to provide
superior wall and surface finish capabilities.

For more details, please refer to our Kennametal
Innovations 2015 Catalogue (A-14-03586).





Kennametal Product Highlights

KM4X™ • The New Choice for Heavy-Duty Milling

Primary Application

The KM4X 4-ball spindle interface provides up to 3x more bending capacity than HSK. The greater bending capacity enables customers to fully utilise the capabilities of their machine and cutting tools when working with tough materials like titanium or during heavy machining. Increased metal removal rates optimise machine production and decrease overall manufacturing cost.

- Heavy-duty, rigid configuration.
- 3x more bending capacity than HSK.
- Increased metal removal rates.
- Full utilisation of machine tools.
- Decreased manufacturing costs.
- Balanced-by-design for higher spindle speeds.
- Highest maximum speed capability.

Features and Benefits

The Latest Innovation in Spindle Interface Technology

- KM4X offers the most rigid connection able to withstand extremely high bending due to a combination of high interference and high clamping forces.
- KM™ is the only connection that maintains stiffness at elevated rotational speeds and is suitable for a range of applications from low speeds with high torque to very high spindle speeds.
- KM4X is better balanced between bending and torsion capabilities.

For more details, please refer to our Kennametal Innovations 2014 Catalogue (A-13-03143).

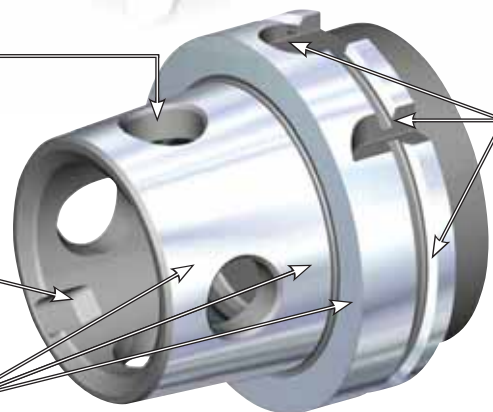




Four locking elements for power, drive, and uniform rigid locking. Provides even distribution of forces.

Systems secondary drive/location and orientation feature.

The KM™ System's superior rigidity and accuracy is gained by optimised interference levels. Three surface areas of contact develop when clamped, resulting in superior performance.



Standardised HSK V-flange and features for automatic tool-change arms.

Kennametal Product Highlights

New Beyond™ Indexable Milling Grades: KCK15™, KCSM30™, KCPM40™



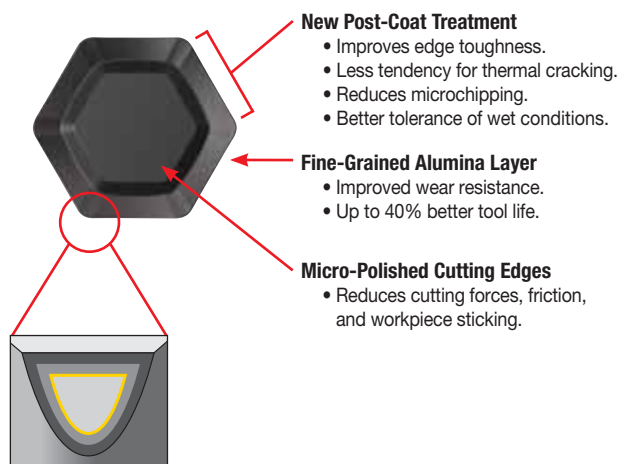
Breakthrough in the latest substrate and coating technology to boost performance levels in different material groups.

Features and Benefits

NEW!

Beyond KCK15

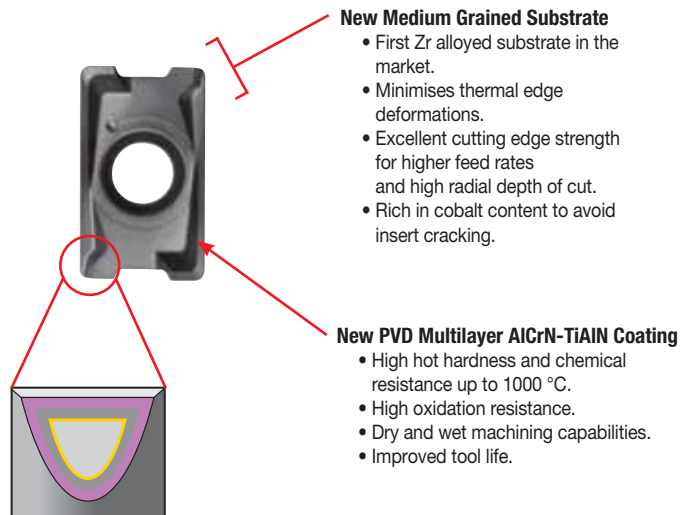
Excellent choice for roughing cast iron engine blocks and heads in automotive applications. Supported by HexaCut™ and KSSR 84™ platforms.



NEW!

Beyond KCPM40

Best-in-class solution for toughest steel milling jobs, castings with scale, and surfaces with varying thicknesses.





NEW!

Beyond™ KCSM30™

Outstanding results in machining titanium with higher cutting speeds.
Specially developed for the aerospace and turbine blade machining arenas.



New Fine Grained Substrate

- Excellent fatigue resistance and edge strength.
- Improved tool life due to less edge line chipping.
- Applied for small- to medium-chip thickness and stable conditions.

Multilayer PVD AlTiN Coating

- Improved chemical and abrasive resistance.
- Increased vc capability up to 70 m/min.
- Primarily for wet machining.

Beyond BLAST™ Technology

- PCT Precision Coolant Technology.
- Delivers coolant through the insert directly to the cutting edge.
- Improved thermal management by heat transfer and lubricity.



For more details, please refer to our Kennametal Innovations 2015 Catalogue (A-14-03586).





Kennametal Product Highlights

Beyond™ EADE Solid Ceramic End Mills

Primary Application

EADE Solid Ceramic End Mills offer higher productivity and tool life in roughing nickel-based high-temperature alloys. Beyond grade KYS40™ delivers best-in-class tool life and exceptionally high Metal Removal Rates (MRR), surpassing those of other solutions on the market today.

- Outstanding reduction of machining time.
- Less tool changes, due to higher tool life.
- Benefit from throw-away type of tooling.

Features and Benefits

Advanced Technology

- KYS40 Beyond grade solid SiAlON ceramic designed for machining nickel-based high-temperature alloys.
- Cutting speeds up to 1000 m/min increase Metal Removal Rate (MRR).
- Tool life up to 5x that of carbide.

Extensive Standard Offering

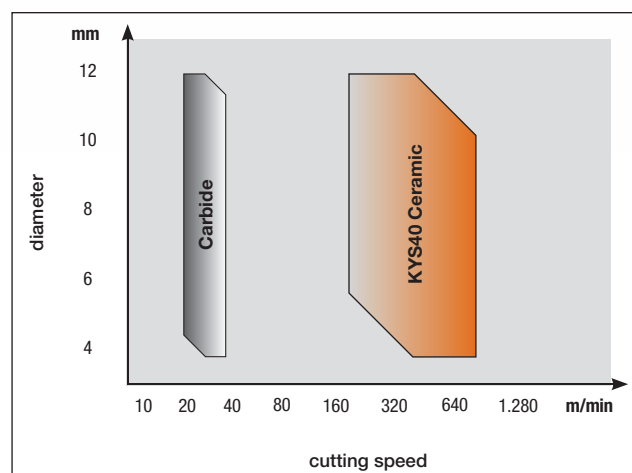
- 4-flute tooling for pocketing and slotting. Undersize end mills leaving stock for finishing operations.
- 6-flute tooling for face milling and profiling.

Customisation

- Engineered solutions are available upon request.

Highest Cutting Speed Capability

- Increase compared to carbide.





Ceramic optimised end geometry

Increase in shearing action.
Improves corner stability.

Enlarged core design

Increases tool rigidity for less deflection.



40° helix angle

Improves chip evacuation.

KYS40™ Beyond™ grade

Enables highest cutting speeds.

For more details, please refer to our Kennametal
Innovations 2014 Catalogue (A-13-03143).



Kennametal Product Highlights

RMB-E™ and RHM-E™ Expandable Reamers • The Expandable Reaming System

The expandable reaming platform provides customers extremely long tool life at very tight tolerances. With the help of the proprietary expansion solution, Kennametal offers a standard portfolio with up to 4x the tool life of regular multiflute reamers. The thicker coating offers even greater tool life.

Additionally, the expandable reamers match ISO IT6 tolerances over the course of the entire tool life. The compensation of wear is very easy, comfortable, and reliable due to the linear expandability.

Features and Benefits

Primary Application

Use SIF™ steerable hydraulic chucks for easy compensation of radial runout and angular inaccuracies of the spindle to achieve the highest possible hole straightness and surface quality.

Comfortable and Reliable

The new Kennametal Expandable Reamers feature an elastic behavior over the entire range (3 times IT6 tolerance range). With a complete linear expansion rate of 2 microns per 30° twisting the expansion screw, the new Expandable Reamers can be positioned in the machining centre without measurement devices.

Longer Tool Life at Smaller Tolerances!

By compensating the loss of diameter due to wear, the expansion has enabled 4x the tool life. The tools are pre-adjusted to hit IT6 tolerance.

The expandable reamers feature all advantages of the RMB™ reamer, like high productivity, flexibility, outstanding surface quality, straightness, and roundness.



Product Offering

- Expandable multiflute reamers in diameter from 8–20mm (.315–.787") available with helical and straight flutes in 0,001mm (.00004") steps.
- RHM-E™: diameters up to 42mm (1.654") available with helical and straight flutes in 0,001mm (.00004") increments.

Customisation

- Intermediate diameter of standard program available as simple specials with short delivery times.
- Tooling with PCD, CBN, or cermet grades is available upon request.

For more details, please refer to our Kennametal Innovations 2014 (A-13-03143) and Innovations 2015 Catalogues (A-14-03586).





With Wear Detection Technology

The Advanced Surface Treatment:

- Reduces coating stresses
- Improves coating adhesion
- Bronze outer layer simplifies wear detection



Primary Application

Kennametal offers a complete portfolio of ISO-/ANSI-style inserts. Positive, negative, CVD, PVD, or uncoated, we have the insert to help increase productivity and achieve greater savings. Plus, our carbide insert line contains Beyond™ technology. Beyond inserts offer you greater versatility, reliability, and up to 30% higher productivity.

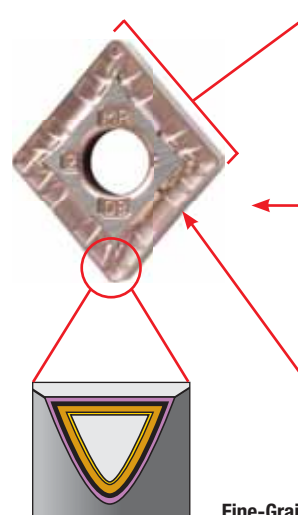
Beyond™ Drive™ is the solution for those looking for increased metal removal rates, longer tool life, versatility and improved wear detection.

Features and Benefits

Beyond™ Drive™ Inserts

Beyond™ Drive™ offers the same benefits of Kennametal's current market-leading Beyond™ products, but in a bronze color to increase wear identification.

- Increase productivity and process safety with Beyond grade technology.
- Post-coat treatment reduces stress and improves coating adhesion.
- Better toughness and wear resistance.
- Better wear detection.



Post-Coat Treatment

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

Micro-Polished Cutting Edges

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

Post coat grinding — Bottom

- Provides secure seating surface.

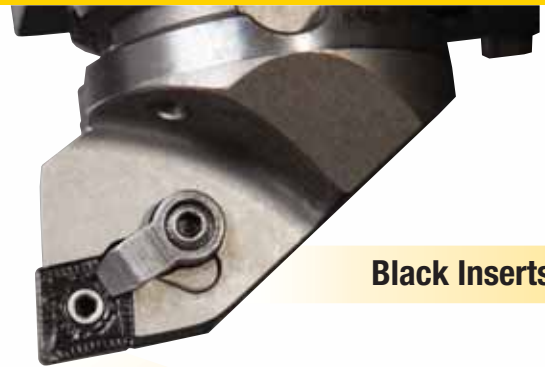
TiN/MT-TiCN/TiCN/
Al₂O₃/TiO₂CN

Fine-Grained Alumina Layer

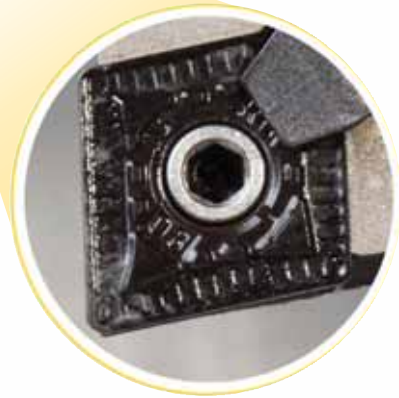
- Provides coating integrity at elevated speeds.
- Higher productivity and dependability at high cutting temperatures.



Beyond Drive™



Black Inserts™



With Wear Detection Technology

beyond™ DRIVE™

- Higher productivity and profitability — up to 30% higher.
- Lower cutting forces — increase speeds and reduce cycle time.
- Extended tool life.
- Predictable tool life/uniform wear.
- Resists chip flow damage.
- Consistent surface finish.
- Products can be applied across a wide range of applications.
- Use it in low speed to high speed applications.
- For finish to rough turning of steel, cast iron, stainless steel, and high-temp alloy turning.



Beyond PVD Grades

KCU10™

- PVD-coated grade with superior wear resistance at elevated temperatures, allowing higher metal cutting speeds.
- For use in all materials, especially stainless steels and high-temp alloys.
- Improved depth-of-cut notch resistance.
- Increase speed by 20–30% or feed by 10–15%.
- Use in finishing to medium applications.

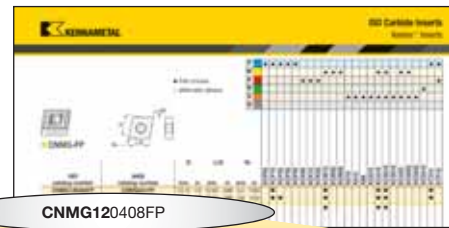


KCU25™

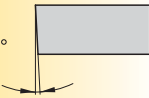
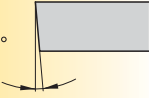
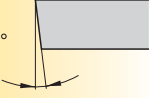
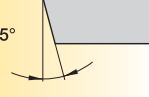
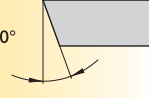
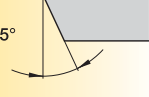
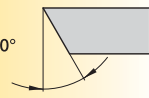
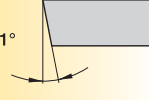
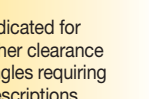
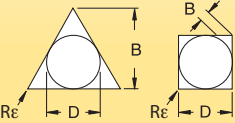
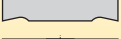
- PVD-coated grade with superior edge toughness and excellent wear resistance. Medium to roughing applications.
- Use in all materials.
- Increase speed, feed, and depth of cut by 10–20%.

How Do Catalogue Numbers Work?

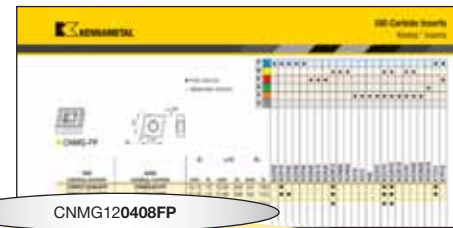
Each character in our catalogue number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



CNMG120408FP

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Insert Shape	Insert Clearance Angle	Tolerance Class	Insert Features	Size																																																																																																																																																																																																																																	
H Hexagon 120°  O Octagon 135°  P Pentagon 108°  R Round —  S Square 90°  T Triangular 60°  CDEMV Rhomboid 80° 55° 75° 86° 35°  W Trigon 80° with enlarged corner angles  L Rectangular 90°  ABN/K Parallelogram 85° 82° 55° 	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. 	Tolerances apply prior to edge prep and coating  D = Theoretical diameter of the insert inscribed circle S = Thickness B = See figures below	N R F A M G W T Q U B H C J X Special Design 	Code for inch cutting edge length "L10" <table><tr><th></th><th>"D"</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>inch</th><th>mm</th><th>C</th><th>D</th><th>R</th><th>S</th><th>T</th><th>V</th><th>W</th></tr><tr><td>1.2 (5)</td><td>3,97</td><td>S4</td><td>04</td><td>03</td><td>03</td><td>06</td><td>—</td><td>—</td></tr><tr><td>1.5 (6)</td><td>4,76</td><td>04</td><td>05</td><td>04</td><td>04</td><td>08</td><td>08</td><td>S3</td></tr><tr><td>1.8 (7)</td><td>5,56</td><td>05</td><td>06</td><td>05</td><td>05</td><td>09</td><td>09</td><td>03</td></tr><tr><td>—</td><td>6,00</td><td>—</td><td>—</td><td>06</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>2</td><td>6,35</td><td>06</td><td>07</td><td>06</td><td>06</td><td>11</td><td>11</td><td>04</td></tr><tr><td>2.5</td><td>7,94</td><td>08</td><td>09</td><td>07</td><td>07</td><td>13</td><td>13</td><td>05</td></tr><tr><td>—</td><td>8,00</td><td>—</td><td>—</td><td>08</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>3</td><td>9,52</td><td>09</td><td>11</td><td>09</td><td>09</td><td>16</td><td>16</td><td>06</td></tr><tr><td>—</td><td>10,00</td><td>—</td><td>—</td><td>10</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>3.5</td><td>11,11</td><td>11</td><td>13</td><td>11</td><td>11</td><td>19</td><td>19</td><td>07</td></tr><tr><td>—</td><td>12,00</td><td>—</td><td>—</td><td>12</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>4</td><td>12,70</td><td>12</td><td>15</td><td>12</td><td>12</td><td>22</td><td>22</td><td>08</td></tr><tr><td>4.5</td><td>14,29</td><td>14</td><td>17</td><td>14</td><td>14</td><td>24</td><td>24</td><td>09</td></tr><tr><td>5</td><td>15,88</td><td>16</td><td>19</td><td>15</td><td>15</td><td>27</td><td>27</td><td>10</td></tr><tr><td>—</td><td>16,00</td><td>—</td><td>—</td><td>16</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>5.5</td><td>17,46</td><td>17</td><td>21</td><td>17</td><td>17</td><td>30</td><td>30</td><td>11</td></tr><tr><td>6</td><td>19,05</td><td>19</td><td>23</td><td>19</td><td>19</td><td>33</td><td>33</td><td>13</td></tr><tr><td>—</td><td>20,00</td><td>—</td><td>—</td><td>20</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>7</td><td>22,22</td><td>22</td><td>27</td><td>22</td><td>22</td><td>38</td><td>38</td><td>15</td></tr><tr><td>—</td><td>25,00</td><td>—</td><td>—</td><td>25</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>8</td><td>25,40</td><td>25</td><td>31</td><td>25</td><td>25</td><td>44</td><td>44</td><td>17</td></tr><tr><td>10</td><td>31,75</td><td>32</td><td>38</td><td>31</td><td>31</td><td>54</td><td>54</td><td>21</td></tr><tr><td>—</td><td>32,00</td><td>—</td><td>—</td><td>32</td><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>		"D"								inch	mm	C	D	R	S	T	V	W	1.2 (5)	3,97	S4	04	03	03	06	—	—	1.5 (6)	4,76	04	05	04	04	08	08	S3	1.8 (7)	5,56	05	06	05	05	09	09	03	—	6,00	—	—	06	—	—	—	—	2	6,35	06	07	06	06	11	11	04	2.5	7,94	08	09	07	07	13	13	05	—	8,00	—	—	08	—	—	—	—	3	9,52	09	11	09	09	16	16	06	—	10,00	—	—	10	—	—	—	—	3.5	11,11	11	13	11	11	19	19	07	—	12,00	—	—	12	—	—	—	—	4	12,70	12	15	12	12	22	22	08	4.5	14,29	14	17	14	14	24	24	09	5	15,88	16	19	15	15	27	27	10	—	16,00	—	—	16	—	—	—	—	5.5	17,46	17	21	17	17	30	30	11	6	19,05	19	23	19	19	33	33	13	—	20,00	—	—	20	—	—	—	—	7	22,22	22	27	22	22	38	38	15	—	25,00	—	—	25	—	—	—	—	8	25,40	25	31	25	25	44	44	17	10	31,75	32	38	31	31	54	54	21	—	32,00	—	—	32	—	—	—	—
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<table><tr><th>tolerance class</th><th>tolerance on "D"</th><th>tolerance on "B"</th><th>tolerance on "S"</th></tr><tr><td>C</td><td>±0,025</td><td>±0,013</td><td>±0,025</td></tr><tr><td>H</td><td>±0,013</td><td>±0,013</td><td>±0,025</td></tr><tr><td>E</td><td>±0,025</td><td>±0,025</td><td>±0,025</td></tr><tr><td>G</td><td>±0,025</td><td>±0,025</td><td>±0,013</td></tr><tr><td>M</td><td colspan="2">See tables on next page</td><td>±0,013</td></tr><tr><td>U</td><td colspan="2">See tables on next page</td><td>±0,013</td></tr></table>					tolerance class	tolerance on "D"	tolerance on "B"	tolerance on "S"	C	±0,025	±0,013	±0,025	H	±0,013	±0,013	±0,025	E	±0,025	±0,025	±0,025	G	±0,025	±0,025	±0,013	M	See tables on next page		±0,013	U	See tables on next page		±0,013																																																																																																																																																																																																					
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U	See tables on next page		±0,013																																																																																																																																																																																																																																		

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



CNMG120408FP

04

Thickness
S

symbol	thickness
mm	mm
—	0,79
T0	1,00
01	1,59
T1	1,98
02	2,38
03	3,18
T3	3,97
04	4,76
05	5,56
06	6,35
07	7,94
9	9,52
11	11,11
12	12,70

08

Corner
Radius "R_c"

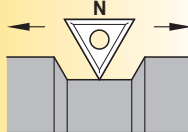
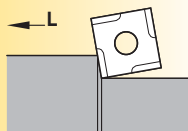
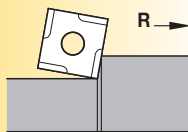
symbol	corner radius
mm	mm
X0	0,04
01	0,1
02	0,2
04	0,4
08	0,8
12	1,2
16	1,6
20	2,0
24	2,4
28	2,8
32	3,2
00	round insert
M0	
—	

Hand of Insert
(optional)

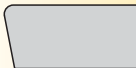
R = Right hand

L = Left hand

N = Neutral



Cutting Edge
(optional)

F		Sharp
E		Rounded
T		Chamfered
S		Chamfered and Rounded
K		Double-Chamfered
P		Double-Chamfered and Rounded

FP

Chipbreaker
(optional)

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”	± Tolerance on “D”				“D”	± Tolerance on “B”			
	Class M Tolerance			Class U Tolerance		Class M Tolerance			Class U Tolerance
	Shapes S, T, C, R, & W	Shape D	Shape V			Shapes S, T, C, R, & W	Shape D	Shape V	
	mm	mm	mm			mm	mm	mm	
3,97	0,05	–	–	–	3,97	0,08	–	–	–
4,76	0,05	–	–	0,08	4,76	0,08	–	–	0,13
5,56	0,05	0,05	0,05	0,08	5,56	0,08	0,11	–	0,13
6,35	0,05	0,05	0,05	0,08	6,35	0,08	0,11	–	0,13
7,94	0,05	0,05	0,05	0,08	7,94	0,08	0,11	–	0,13
9,52	0,05	0,05	0,05	0,08	9,52	0,08	0,11	0,18	0,13
11,11	0,08	0,08	0,08	0,13	11,11	0,13	0,15	–	–
12,70	0,08	0,08	0,08	0,13	12,70	0,13	0,15	0,25	0,20
14,29	0,08	0,08	0,08	0,13	14,29	0,13	0,15	–	–
15,88	0,10	0,10	0,10	0,18	15,88	0,15	0,18	–	0,27
17,46	0,10	0,10	0,10	0,18	17,46	0,15	0,18	–	0,27
19,05	0,10	0,10	0,10	0,18	19,05	0,15	0,18	–	0,27
22,22	0,13	–	–	0,25	22,22	0,15	–	–	0,38
25,40	0,13	–	–	0,25	25,40	0,18	–	–	0,38
31,75	0,15	–	–	0,25	31,75	0,20	–	–	0,38

Insert Selection System

How to Use

Kennametal's 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, optimising selection accuracy.

Example:
Six workpiece material groups

■ Step 1 • Select the insert geometry

Given: depths of cut = 1mm
feed = 0,4mm

Unknown: insert geometry

Solution: -MN

■ Step 2 • Select the grade

Given: cutting conditions:
lightly interrupted cut



Geometry: -MN

Unknown: grade

Solution: KCP25

■ Step 3 • Select the cutting speed

Given: grade KCP25
cutting conditions
material CK15



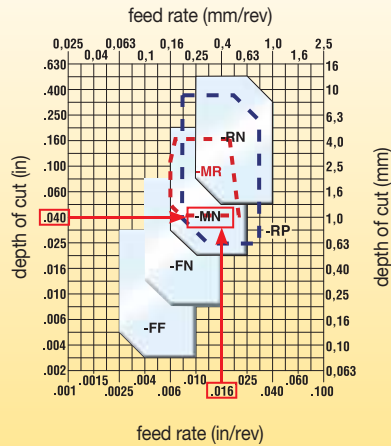
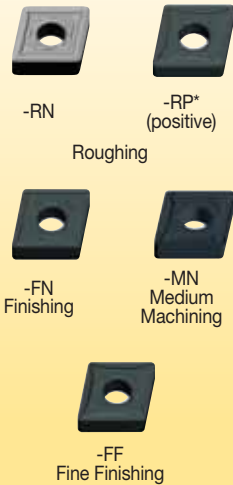
Unknown: cutting speed

Solution: 280 m/min

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

■ Step 1 • Select the insert geometry

Negative Wiper 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 DRIVE™

■ Step 2 • Select the grade

cutting condition	-FF	-FN	-MN	-RN	-RP	-11	-UF	-LF	-FP	-MF	-MP
heavily interrupted cut	KCP10B	KCP25B	KCP30B	KCP30B/ KCP40B	KCP30B/ KCP40B	-	KCU10/ KCP25B	KCP25B	KCU25/ KCP25B	KCP40B	KCM25B
lightly interrupted cut	KCP10B	KCP25B	KCP25B	KCP30B/ KCP40B	KCP30B/ KCP40B	-	KCU10/ KCP25B	KCP25B	KCP25B	KCP25B	KCP25B
varying depth of cut, casting, or forging skin	KCP05B/ KT315	KCP10B	KCP10B	KCP30B/ KCP40B	KCP30B/ KCP40B	KT315	KCP10B	KCP10B	KCP10B	KCP10B	KCP10B

■ Step 3 • Selecting the cutting speed

Low-Carbon (<0.3% C) and Free-Machining Steel											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/KTP10										435	1450
	KCP10B										395	1320
	KCP25B										275	925
	KCP30B/KCP40B										210	700

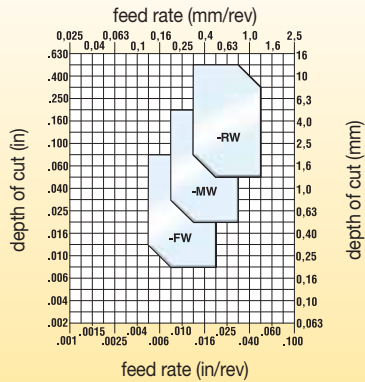
New Beyond™ Material Group Selection Guide:

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

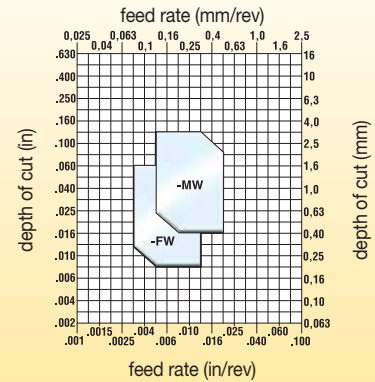
material	material group ISO code	number of material subgroups
steel	P	1-6
stainless steel	M	1-3
cast iron	K	1-3
non-ferrous materials	N	1-8
high-temp alloys	S	1-4
hardened materials	H	1

Step 1 • Select the insert geometry

Negative Wiper Inserts



Positive Wiper Inserts

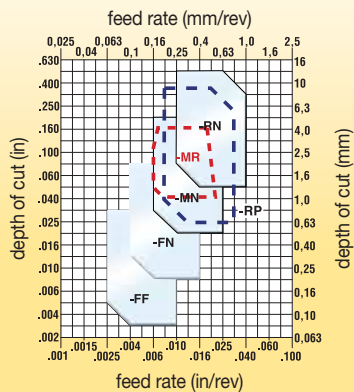
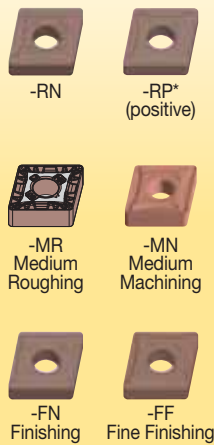


Step 2 • Select the grade

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

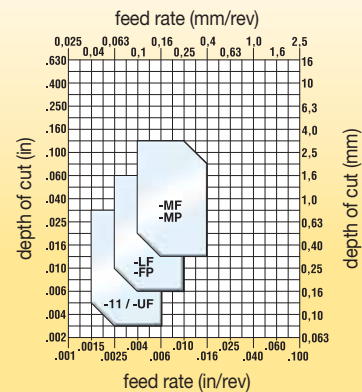
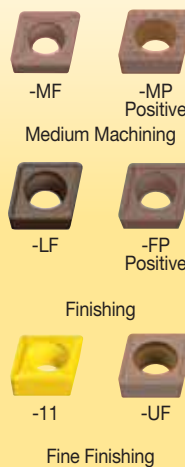
Step 1 • Select the insert geometry

Negative Inserts



*-RP – Supplemental geometry for high-strength materials

Positive Inserts



Step 2 • Select the grade

cutting condition	-FF	-FN	-MN	-MR	-RN	-RP	-11	-UF	-LF	-FP	-MF	-MP
heavily interrupted cut	KCP10B	KCP25B	KCP30B	-	KCP30B/KCP40B	KCP30B/KCP40B	-	KCU10/KCP25B	KCP25B	KCP25B	KCP40B	KCM25B
lightly interrupted cut	KCP10B	KCP25B	KCP25B	KCP25B	KCP25B	KCP25B	-	KCU10/KCP25B	KCP25B	KCP25B	KCP25B	KCP25B
varying depth of cut, casting, or forging skin	KCP05B/KT315	KCP10B	KCP10B	KCP10B	KCP10B	KCP10B	KT315	KCP10B	KCP10B	KCP10B	KCP10B	KCP10B
smooth cut, pre-turned surface	KCP05B/KT315	KCP05B	KCP05B	KCP10B/KCK15B	KCP05B	KCP05B	KT315	KCP05B	KCP05B/KT315	KCP05B/KTP10	KCP05B	KCP05B

■ Step 3 • Selecting the cutting speed

Low-Carbon (<0.3% C) and Free-Machining Steel

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

Medium- and High-Carbon Steels (>0.3% C)

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

Alloy Steels and Tool Steels (≤330 HB) (≤35 HRC)

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

Alloy Steels and Tool Steels (340–450 HB) (36–48 HRC)

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

Ferritic, Martensitic, and PH Stainless Steels (≤330 HB) (≤35 HRC)

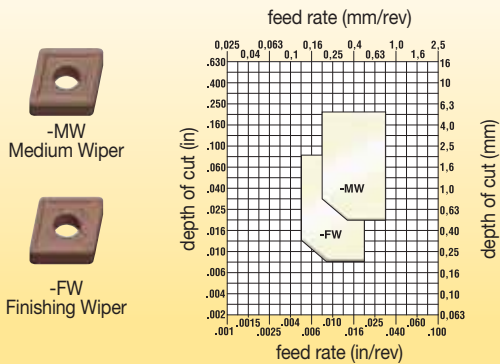
material group	grade	speed – m/min (SFM)									Starting Conditions	
		120 (400)	150 (500)	180 (600)	210 (700)	240 (800)	270 (900)	300 (1000)	330 (1100)	360 (1200)	m/min	SFM
P5	KCP05B/KTP10										240	800
	KCP10B										215	720
	KCP25B										195	650
	KCP30B/KCP40B										135	450
	KT315				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

Ferritic, Martensitic, and PH Stainless Steels (340–450 HB) (36–48 HRC)

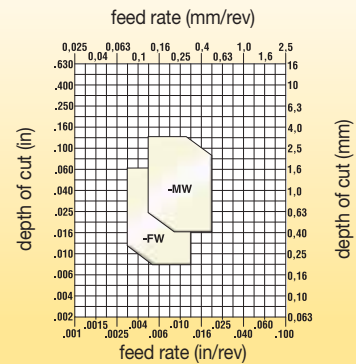
material group	grade	speed – m/min (SFM)									Starting Conditions	
		105 (350)	135 (450)	165 (550)	195 (650)	225 (750)	255 (850)	315 (950)	345 (1150)		m/min	SFM
P6	KCP05B/KTP10										200	660
	KCP10B										180	600
	KCP25B										150	500
	KCP30B/KCP40B										105	350
	KT315										200	660
	KCU10										150	500

■ Step 1 • Select the insert geometry

Negative Wiper Inserts



Positive Wiper Inserts

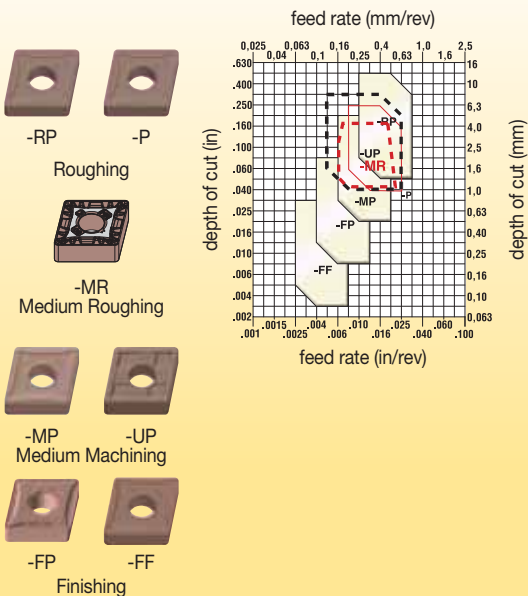


■ Step 2 • Select the grade

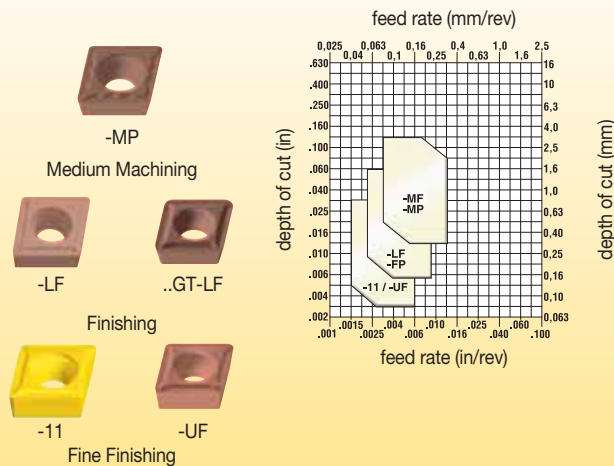
cutting condition		Negative Insert Geometry		Positive Insert Geometry	
		-FW	-MW	-FW	-MW
heavily interrupted cut		-	-	-	-
lightly interrupted cut		KCM15B	KCM25B	KCM15B	KCM15B
varying depth of cut, casting, or forging skin		KCM15B/KCU10	KCM15B	KCU10	KCU10
smooth cut, pre-turned surface		KCM15B/KT315	KCM15B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

■ Step 1 • Select the insert geometry

Negative Inserts



Positive Inserts



■ Step 2 • Select the grade

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

(continued)

■ Step 2 • Select the grade *(continued)*

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

■ Step 3 • Selecting the cutting speed

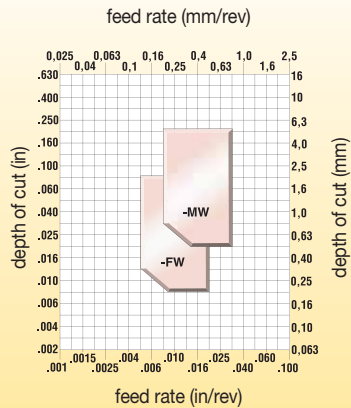
Austenitic Stainless Steel		speed — m/min (SFM)										Starting Conditions	
material group	grade	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)		m/min	SFM
M1	KCM15B											180	600
	KCM25B											150	500
	KCM35B											120	400
	KT315											230	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											165	550
	KCM25B											140	450
	KCM35B											105	350
	KT315											215	700
	KCU10											200	650
	KCU25											165	500

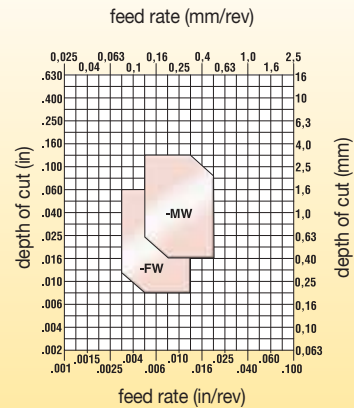
Austenitic Stainless Steel		speed — m/min (SFM)										Starting Conditions	
material group	grade	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)		m/min	SFM
M3	KCM15B											150	500
	KCM25B											120	400
	KCM35B											90	300
	KT315											200	650
	KCU10											185	600
	KCU25											150	450

■ Step 1 • Select the insert geometry

Negative Wiper Inserts



Positive Wiper Inserts



■ Step 2 • Select the grade

Grey Iron

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

Ductile Iron

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

■ Step 3 • Selecting the cutting speed

Grey Cast Iron

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

**Ductile, Compacted Graphite, and Malleable Cast Irons
(<80 KSI tensile strength)**

material group	grade	speed – m/min (SFM)									Starting Conditions	
		60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/min	SFM
K2	KCK05B										360	1200
	KCK15B										270	900
	KCK20B										240	800
	KT315										275	900

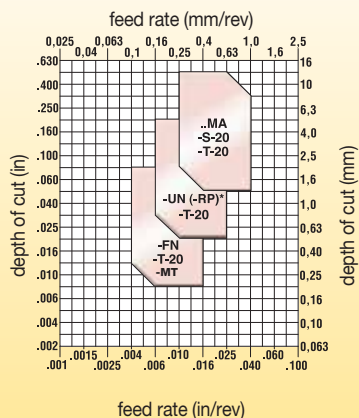
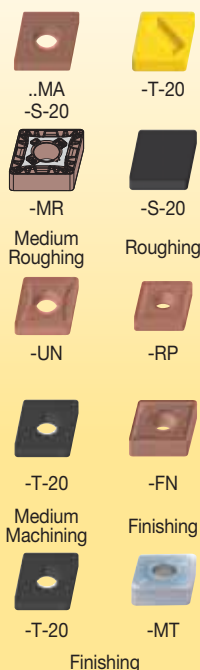
**Ductile, Compacted Graphite, and Malleable Cast Irons
(>80 KSI tensile strength)**

material group	grade	speed – m/min (SFM)									Starting Conditions	
		60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/min	SFM
K3	KCK05B										240	800
	KCK15B										215	725
	KCK20B										210	700
	KT315										230	750

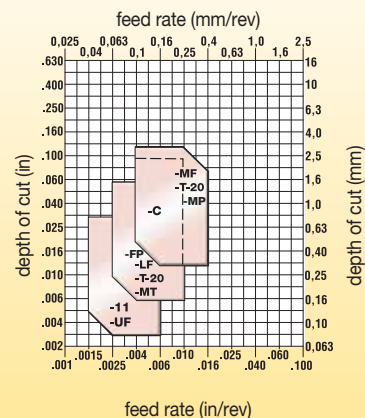
Step 1 • Select the insert geometry

beyond DRIVE™

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

Grey Iron

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

Ductile Iron

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

(continued)

■ Step 2 • Select the grade *(continued)*
Grey Iron

Ceramic and PCBN Grades

Negative Insert Geometry

Positive Insert Geometry

cutting condition		-T-20 Finishing	MT	-T-20 Medium	-T-20 Roughing	-S20	-T-20 Fine Finishing	-T-20 Medium	MT	C
heavily interrupted cut		KY3500	KCK20B	KY3500	KY3500	KB1340	—	KY3500	KB1630/ KB1345	KB1630/ KB1345
lightly interrupted cut		KY3500	KB1345	KYK10	KY3500	KB1340	—	KY3500	KB1630/ KB1345	KB1630/ KB1345
varying depth of cut, casting, or forging skin		KYK10	KB1345	KYK10	KYK10	KB1340	KY3500	KY3500	KB1630/ KB1345	KB1630/ KB1345
smooth cut, pre-turned surface		KYK25	KB1345	KYK25	KYK25	KB1340	KY3500	KY3500	KB1630/ KB1345	KB1630/ KB1345

Ductile Iron

Negative Insert Geometry

Positive Insert Geometry

cutting condition		-T-20 Finishing	-T-20 Medium	-T-20 Roughing	-T-20 Fine Finishing	-T-20 Finishing	-T-20 Medium
heavily interrupted cut		—	KY3500	KY3500	—	KY3500	KY3500
lightly interrupted cut		—	KYK25	KYK25	—	KYK25	KYK25
varying depth of cut, casting, or forging skin		KYK25	KYK25	KYK25	KYK25	KYK25	KYK25
smooth cut, pre-turned surface		KYK25	KYK25	KYK25	KYK25	KYK25	KYK25

■ Step 3 • Selecting the cutting speed *(Optimal speed depends on casting quality and disposition.)*
Grey 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
	KYK25											760	2500
	KY3500											760	2500
	KYK10											760	2500
	KCK05B											450	1500
	KCK15B											360	1200
	KCK20B											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
	KYK25													430	1400
	KY3500													365	1200
	KYK10													365	1200
	KCK05B													360	1200
	KCK15B													270	900
	KCK20B													240	800

**Ductile, Compacted Graphite, and Malleable Cast Irons
(>600 MPa tensile strength)**

speed — m/min (SFM)

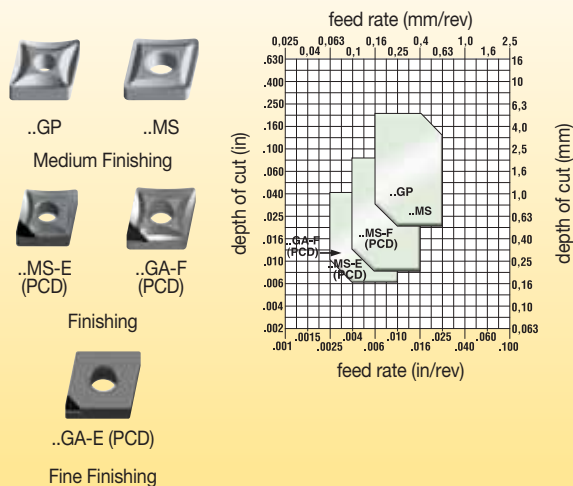
Starting Conditions

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
	KYK25													365	1200
	KCK05B													240	800
	KCK15B													215	725
	KCK20B													210	700

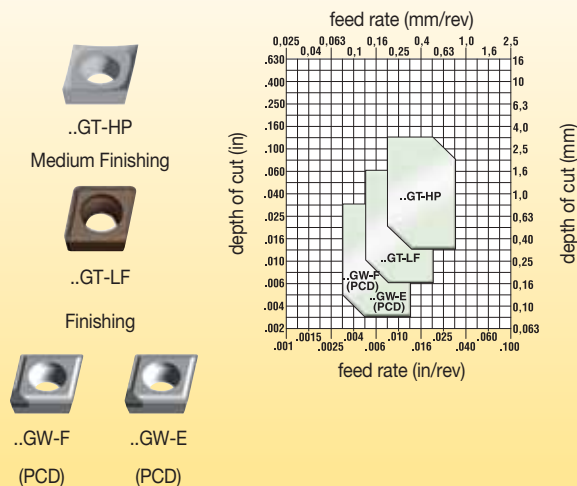
■ Step 1 • Select the insert geometry

beyond DRIVE™

Negative Inserts



Positive Inserts



■ Step 2 • Select the grade

cutting condition	Negative Insert Geometry					Positive Insert Geometry				
	..GA-E (PCD)	..MS-E (PCD)	..GA-F (PCD)	..GP	..MS	..GW-E (PCD)	..GW-F (PCD)	..GT-LF	..GT-HP	
heavily interrupted cut	✖	-	-	KD1400	KC5410/K313	KC5410	-	KD1400	-	KC5410
lightly interrupted cut	⊙	KD1405	KD1405	KD1400	KC5410/K313	KC5410	KD1405	KD1400	KC5410	KC5410
varying depth of cut, casting, or forging skin	⊙	KD1405	KD1405	KD1425	KC5410/K313	KC5410	KD1405	KD1425	KC5410	KC5410
smooth cut, pre-turned surface	⊙	KD1405	KD1405	KD1425	KC5410/K313	KC5410	KD1405	KD1425	KC5410	KC5410

■ Step 3 • Selecting the cutting speed

Low-Silicon Aluminium Alloys

(hypoeutectic <12,2% Si) and Magnesium Alloys

material group	grade	speed – m/min (SFM)										Starting Conditions	
		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
	KD1400	◇										765	2500

High-Silicon Aluminium Alloys

(hypereutectic >12,2% Si) and Magnesium Alloys

material group	grade	speed – m/min (SFM)				Starting Conditions	
		250 (800)	500 (1600)	750 (2400)	1000 (3200)	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						Starting Conditions	
speed – m/min (SFM)							
material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N4	KD1400/KD1405					520	1700
	KD1425					500	1600
	KC5410					275	900
	K313					260	850

Nylon, Plastics, Rubbers, Phenolics, Resins, Fiberglass, and Glass						Starting Conditions	
speed – m/min (SFM)							
material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N5	KD1400/KD1405					400	1300
	KD1425					365	1200
	KC5410					170	550

Carbon and Graphite Composites: Brush Alloys, Kevlar, and Graphite (280–400 HB) (30–43 HRC)						Starting Conditions	
speed – m/min (SFM)							
material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N6	KD1400/KD1405					760	2500
	KC5410					200	650

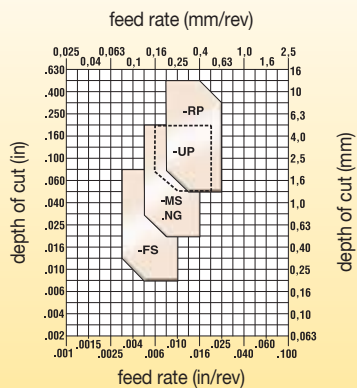
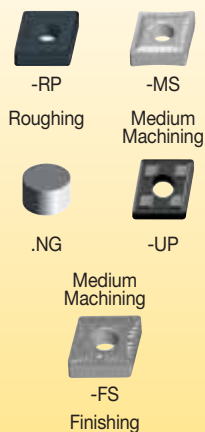
MMCs (Aluminium-Based Metal Matrix Composites)						Starting Conditions	
speed – m/min (SFM)							
material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N7	KD1405					460	1500
	KD1400					365	1200

Tin Alloys, Cast: ASTM 823, Alloys 1, 2, 3, 11						Starting Conditions	
speed – m/min (SFM)							
material group	grade	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/min	SFM
N8	KC5410					215	700
	K313					180	600

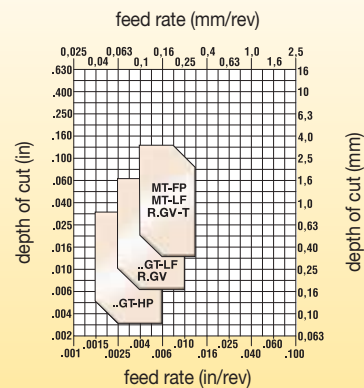
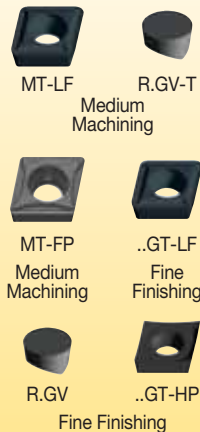
■ **Step 1 • Select the insert geometry**

beyond DRIVE™

Negative Inserts



Positive Inserts



■ **Step 2 • Select the grade**

Negative Insert Geometry

cutting condition		-FS	.NG	-MS	-UP	-RP
heavily interrupted cut		KCU25	-	KCU25	KCM35B	KCM25B/ KCM35B
lightly interrupted cut		KCU10	KYS30/KY1540	KCU25	KCM25B	KCM15B
varying depth of cut, casting, or forging skin		KCU10	KYS30/KY1540/ KYS25/KY4300	KCU10	KCM15B	KCU25
smooth cut, pre-turned surface		KCU10/K313	KYS25/KY4300	KCU10/K313	KCU10	KCU10

Positive Insert Geometry

cutting condition		-FP	..GT-HP	MT-LF	R.GV-T	..GT-LF	R.GV
heavily interrupted cut		KCU25	-	KCU25	-	KCU25	-
lightly interrupted cut		KCU25	KCU25	KCU25	KYS30/ KY1540	KCU25	KYS30/KY1540
varying depth of cut, casting, or forging skin		KCU10/ KU10	KCU10	KCU10	KYS30/KY1540/ KYS25/KY4300	KCU10	KYS30/KY1540/ KYS25/KY4300
smooth cut, pre-turned surface		KCU10/ KU10	KCU10/K313	KCU10/K313	KYS25/ KY4300	KCU10/K313	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	K313/KU10	◊													30	100
	KCU10		◊												55	180
	KCU25	◊													40	125
	KYS25/KY4300						◊								200	650
	KYS30/KY1540					◊									170	550
	KCM15B		◊												55	180
	KCM25B/KCM35B	◊													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
	KYS25/KY4300						◊								220	720
	KYS30/KY1540					◊									185	600
	KCM15B		◊												60	195
	KCM25B/KCM35B	◊													30	100

Nickel-Based, Heat-Resistant Alloys (140–475 HB) (≤48 HRC)

speed — m/min (SFM)

Starting Conditions

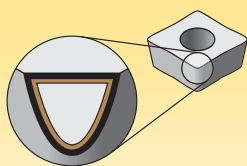
material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S3	K313/KU10	◊													40	125
	KCU10		◊												70	225
	KCU25	◊													40	125
	KYS25/KY4300						◊								250	820
	KYS30/KY1540					◊									215	700
	KCM15B		◊												70	225
	KCM25B/KCM35B	◊													40	125

Nickel-Based, Heat-Resistant Alloys (140–475 HB) (≤48 HRC)

speed — m/min (SFM)

Starting Conditions

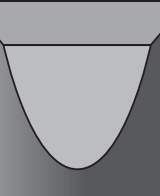
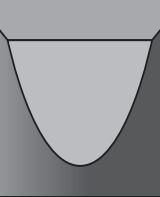
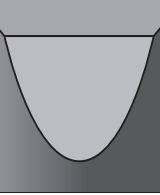
material group	grade	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/min	SFM
S4	K313/KU10	◊													45	150
	KCU10		◊												70	225
	KCU25	◊													55	175
	KCM15B		◊												70	225
	KCM25B/KCM35B	◊					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

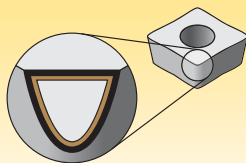
Coating		Grade Description		05	10	15	20	25	30	35	40	45	
Uncoated Carbide Grades	 KU10 C3	Composition: A hard, low binder content, WC/Co fine-grain grade. Application: The KU10 grade has excellent abrasion resistance for machining cast irons, austenitic stainless steels, non-ferrous metals, non-metals, and most high-temperature alloys. Use as a general-purpose grade for non-ferrous materials.											
			M										
			K										
			N										
			S										
Uncoated Carbide Grades	 K313 C3–C4	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-temperature 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										
Uncoated Carbide Grades	 K68 C3	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 most high-temperature alloys. Use as a general-purpose grade for non-ferrous materials.											
			M										
			K										
			N										
			S										
PVD-Coated Carbide Grades	 KCU10 C3–C4	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.	P										
			M										
			K										
			N										
			S										
			H										
PVD-Coated Carbide Grades	 KCU25 C2, C6	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										





beyond

beyond



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

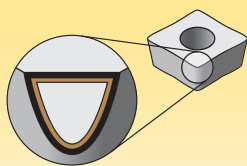
Coating		Grade Description		05	10	15	20	25	30	35	40	45
PVD-Coated Carbide Grades	KC5410	Composition: A PVD TiB₂ coating over a very deformation-resistant unalloyed substrate. Application: Designed for roughing, semi-finishing, and finishing of free machining (hypoeutectic <12,2% Si) aluminium, aluminium alloys, and magnesium alloys. The TiB₂ 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 aluminium. 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. Moulded inserts have a light hone.										
	C3-C4											
CVD-Coated Carbide Grades	KCP05B	Composition: An innovative, highly deformation-resistant, cobalt-enriched substrate with a specially designed, adherent MTCVD-TiCN-Al₂O₃-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.	P									
	C3-C4		K									
CVD-Coated Carbide Grades	KCP10B	Composition: A specially engineered cobalt-enriched carbide grade with thick MTCVD-TiCN-Al₂O₃-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									
	C3, C7		K									
CVD-Coated Carbide Grades	KCP25B	Composition: A tough cobalt-enriched carbide grade with a newly designed multilayer MTCVD-TiCN-Al₂O₃-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 minimises microchipping and improves coating adhesion to substrate leading to long tool life and improved workpiece finishes.	P									
	C2-C3, C6-C7		K									
CVD-Coated Carbide Grades	KCP30B	Composition: A newly engineered, tough cobalt-enriched carbide grade with an advanced multilayer TiN-MT-TiCN-Al₂O₃-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.	P									
	C5-C6											

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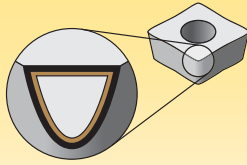


Coatings provide high-speed capability and are engineered for finishing to light roughing.

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

wear resistance ← → toughness

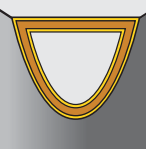
Coating		Grade Description		05	10	15	20	25	30	35	40	45
CVD-Coated Carbide Grades	KCP40B	Composition: A tough carbide grade with a moderately thick TiN-MT-TiCN-Al ₂ O ₃ coating. Application: For heavy roughing of carbon, alloy, and stainless steels. The substrate-coating combination provides unbelievable toughness and operational security allowing high metal removal rates even in most demanding interrupted cuts.	P									
	C5-C6	 beyond DRIVE™	M									
CVD-Coated Carbide Grades	KCK05B	Composition: A multilayered coating with moderately thick MTCVD TiCN-Al ₂ O ₃ -TiOCN layers over a highly deformation-resistant carbide substrate. Application: Designed for high-speed machining of grey and ductile irons. The substrate and coating architecture together with CW5 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 straight and varied depths of cut.	P									
	C3-C4	 beyond DRIVE™	M									
			K									
	KCK15B	Composition: A multilayered coating with thick MTCVD TiCN-Al ₂ O ₃ -TiOCN layers applied over a carbide substrate specifically engineered for cast irons. Application: Delivers consistent performance in high-speed machining of grey 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									
	C3, C4	 beyond DRIVE™	M									
			K									
	KCK20B	Composition: A specially toughened MTCVD-TiCN-Al ₂ O ₃ -TiOCN coating over a wear-resistant substrate. Application: The KCK20 grade is specifically engineered to maximise coating adhesion and edge strength making this grade ideal in wet interrupted cutting of grey and ductile irons. It can be used in a wide range of applications from finishing to roughing to maximise productivity wherever strength and reliability are needed.	P									
	C2-C3	 beyond DRIVE™	M									
			K									
	KCM15B	Composition: A multilayer MTCVD-TiCN-Al ₂ O 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 P20-25 range. KCM15 grade in combination with unique geometries have been designed to resist depth-of-cut notching and minimise burr formation. The post-coat treatment reduces coating stresses, improves coating adhesion, minimises microchipping and edge build-up, and improves workpiece finish.	P									
	C2-C3	 beyond DRIVE™	M									

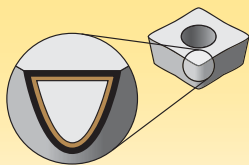


Coatings provide high-speed capability and are engineered for finishing to light roughing.

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

wear resistance ← → toughness

Coating		Grade Description		05	10	15	20	25	30	35	40	45		
CVD-Coated Carbide Grades		Composition: A multilayer MTCVD-TiCN-AlAl ₂ O ₃ -TiOCN 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 P20–25 range. KCM15 grade in combination with unique geometries have been designed to resist depth-of-cut notching and minimise burr formation. The post-coat treatment reduces coating stresses, improves coating adhesion, minimises microchipping and edge build-up, and improves workpiece finish.	P											
			M											
	C1–C2													
CVD-Coated Carbide Grades		Composition: A multilayer TiN-MT-TiCN-Al ₂ O ₃ -TiOCN CVD coating over a super-tough substrate. Application: The KCM35 grade is 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. KCM35 grade is available in insert sizes and geometries appropriate for heavy feeds and large depths of cut.	P											
			M											
	C1–C2													
PVD-Coated Cermet Grades		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													
	C3, C7													
PVD-Coated Cermet Grades		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													
	C3, C7													



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

Ceramic Grades

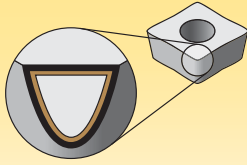
Coating	Grade Description		05	10	15	20	25	30	35	40	45
KYS25	 C4	Composition: SiAlON ceramic with a multilayered alumina-TiCN CVD coating. Application: Complements the KYS30 grade when machining high-temp and nickel-based alloys and cast materials with high Brinell hardness. This advanced CVD coating provides excellent chemical and depth-of-cut notch resistance compared to whisker ceramics.									
KYS30	 C4	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.									
KYK10	 -	Composition: An advanced SiAlON ceramic grade. Application: Provides maximum wear resistance. Use for high-speed continuous turning of grey cast iron, including through scale.									
KYK25	 C3	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 grey, ductile, or nodular cast irons.									
KY4300	 C4	Composition: Whisker ceramic with a matrix of $Al_2O_3 + SiC$. Application: The SiC whiskers embedded in the micro structure give this ceramic excellent toughness for cutting high-temp alloys and cast materials with high Brinell hardness.									

beyond

beyond

beyond

beyond

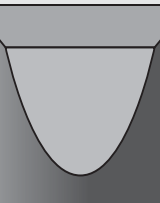
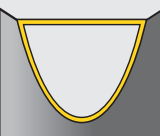


Coatings provide high-speed capability and are engineered for finishing to light roughing.

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

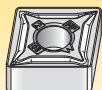
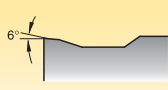
wear resistance ← → toughness

Ceramic 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 grey cast iron, including machining through interruptions.										
	K											
	C2											
KY4400		Composition: A PVD TiN coating over an aluminium oxide and titanium carbonitride composite ceramic (Al ₂ O ₃ /TiCN). Application: Used for finish turning of hardened steels and irons (greater than 45 HRC). Where possible, use under dry conditions in smooth or varied depths of cut. Can also be applied in finish turning of nickel alloys, cobalt alloys, and powder metals.										
	H											
	C4, C8											

■ 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 — mm											
				0,04	0,063	0,01	0,16	0,25	0,4	0,63	1,0	1,6	2,5	5,0	
				0,1	0,16	0,25	0,4	0,63	1,0	1,6	2,5	4,0	6,3	10,0	
				depth of cut — mm											
medium machining	MG-MP			0,2–0,5											
				0,8–5,1											

Pictorial View of Insert

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

Chipbreaker Geometry —
section is through nose radius of insert

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

Primary Workpiece
Material Group

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

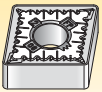
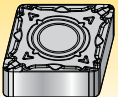
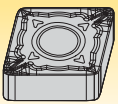
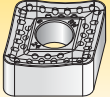
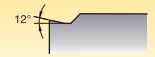
Chip Control Geometry Designation —
example: MG-MP = CNMG-432MP

Machining Operation —
for what the insert geometry is designed

NOTE: For detailed grade and geometry recommendations,
reference the Kennametal Beyond™ Selection System in the
Innovations Master Catalogue Cutting Tools 2013, pages B8–B23.

■ 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 — mm										
				0,04	0,063	0,01	0,16	0,25	0,4	0,63	1,0	1,6	2,5	5,0
				depth of cut — mm										
wiper finishing	MG-FP			0,2–0,4										
				0,3–2,0										
wiper medium machining	MG-FW1			0,1–1,5										
				0,1–1,5										
wiper medium machining	MG-MW			0,3–0,6										
				0,8–5,1										
wiper medium machining	MG-MW1			0,15–0,5										
				0,5–3										
wiper roughing	MM-RW			0,3–1,3										
				1,3–12,7										
fine finishing	MG-FF			0,1–0,3										
				0,1–2,0										
finishing sharp	GG-FS precision ground			0,07–0,25										
				0,20–2,0										
finishing	GG-LF precision ground			0,1–0,5										
				0,5–3,0										

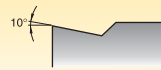
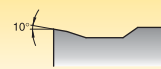
■ Select the geometry —
based on feed rate and depth of cut

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 — mm										
					0,04	0,063	0,01	0,16	0,25	0,4	0,63	1,0	1,6	2,5	5,0
					0,1	0,16	0,25	0,4	0,63	1,0	1,6	2,5	4,0	6,3	10,0
					depth of cut — mm										
finishing	MG-FP			0,1–0,3											
				0,3–2,5											
	MG-FH			0,05–0,25											
				0,25–1											
	MG-FN			0,1–0,3											
0,3–2,5															
MG-FX			0,07–0,22												
			0,2–1												
MP-K			0,1–0,3												
			0,2–2,5												
medium machining	MG-MH			0,15–0,5											
				0,3–2											
medium machining	MG-MX			0,15–0,35											
				0,5–1,5											
medium sharp	MG-MS			0,12–0,35											
				0,76–5,0											
medium machining	MG-UP			0,2–0,6											
				1–6,4											

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

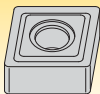
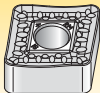
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

operation	insert style application		insert geometry	profile	feed rate — mm										
					0,04	0,063	0,01	0,16	0,25	0,4	0,63	1,0	1,6	2,5	5,0
					0,1	0,16	0,25	0,4	0,63	1,0	1,6	2,5	4,0	6,3	10,0
					depth of cut — mm										
medium machining	_GP*								0,1–0,35					0,5–3,2	
	MG-MP								0,2–0,5				0,8–5,1		
	MG-P								0,15–0,5				0,75–5,0		
	MG-MN								0,2–0,5				0,5–5,1		
	MG-MR								0,15–0,55				1,5–6,3		
	MG-CT O.D. turning								0,13–0,5				1,0–3,0		
	MG-CT outward facing								0,25–0,5				0,25–1,0		
	-MS single sided								0,2–0,4				0,6–2,3		
	MG-UN								0,2–0,5				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

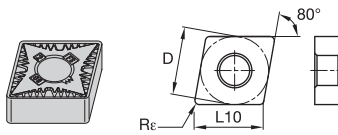
operation	insert style application		insert geometry	profile	feed rate — mm											
					0,04	0,063	0,01	0,16	0,25	0,4	0,63	1,0	1,6	2,5	5,0	
					0,1	0,16	0,25	0,4	0,63	1,0	1,6	2,5	4,0	6,3	10,0	
					depth of cut — mm											
roughing	MG-RP				0,2–0,6 1,1–6,4											
heavy roughing	MG-RN				0,3–0,63 1,1–5,7											
	MG				0,3–0,8 1,1–5,7											
	MM-RN single sided				0,3–1,0 1,3–12,7											
	MM-RP				0,2–1,0 1,3–10,0											
	MM-RH single sided				0,4–1,3 1,3–12,7											
wiper finishing	MT-FW				0,1–0,3 0,2–1,5											
wiper, medium finishing	MT-MW				0,1–0,5 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

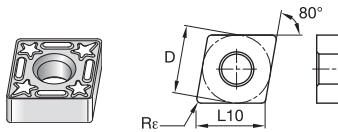
operation	insert style application	insert geometry	profile	feed rate — mm											
				0,04	0,063	0,01	0,16	0,25	0,4	0,63	1,0	1,6	2,5	5,0	
				0,1	0,16	0,25	0,4	0,63	1,0	1,6	2,5	4,0	6,3	10,0	
				depth of cut — mm											
fine finishing	GM precision ground			0,1–0,2											
				0,2–1,0											
	MT-11			0,1–0,3											
				0,2–1,3											
	.MT-UF			0,1–0,3											
				0,1–1,3											
finishing	GT-HP precision ground			0,2–0,4											
				0,6–2,3											
	GT-LF precision ground			0,2–0,4											
				0,8–2,3											
	MT-FP			0,063–0,25											
				0,16–1,6											
	MT-LF			0,2–0,4											
				0,8–2,3											
medium machining	MT-MP			0,01–0,4											
				0,4–2,3											
	MT-MF			0,2–0,4											
				1,1–2,3											

beyond DRIVE™



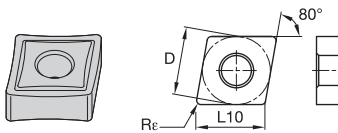
■ CNGG-FS

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CNGG120401FS	12,70	12,90	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
CNGG120402FS	12,70	12,90	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
CNGG120404FS	12,70	12,90	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
CNGG120408FS	12,70	12,90	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
CNGG120412FS	12,70	12,90	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-



■ CNGG-LF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CNGG120401LF	12,70	12,90	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
CNGG120402LF	12,70	12,90	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
CNGG120404LF	12,70	12,90	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
CNGG120408LF	12,70	12,90	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
CNGG120412LF	12,70	12,90	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
CNGG160608LF	15,88	16,12	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
CNGG160612LF	15,88	16,12	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-



■ CNGP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CNGP120401	12,70	12,90	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-
CNGP120402	12,70	12,90	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-
CNGP120404	12,70	12,90	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	•	-	•	-	-
CNGP120408	12,70	12,90	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	•	-	•	-	-
CNGP120412	12,70	12,90	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-	•	-	-
CNGP120416	12,70	12,90	1,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-

Indexable Inserts for P-clamping.

- first choice
○ alternate choice

P	•	•	•	•	•										•								•	•
M												•	•	•										
K									•	•	•													
N																						•		
S																•	•	•	•	•	•			
H																								



- first choice
- alternate choice

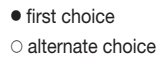


ISO catalogue number	D	L10	R _z
CNMG120404B	12,70	12,90	0,4
CNMG120408	12,70	12,90	0,8
CNMG120412	12,70	12,90	1,2
CNMG190612	19,05	19,34	1,2

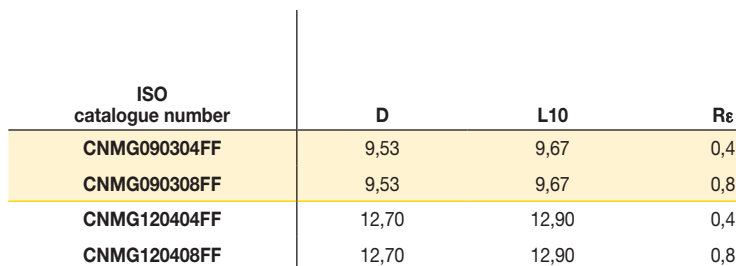
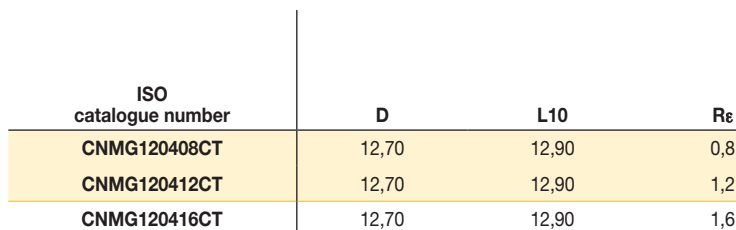
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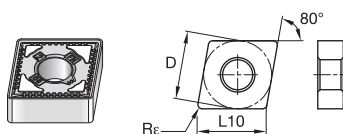
* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.





ISO catalogue number	D	L10	R
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[illegible]

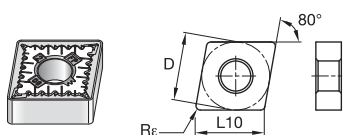
beyond DRIVE™


- first choice
- alternate choice

■ CNMG-FN

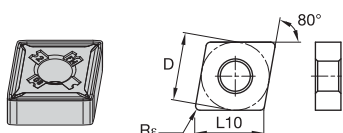
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CNMG090304FN	9,53	9,67	0,4	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-
CNMG120402FN	12,70	12,90	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	●	-	-
CNMG120404FN	12,70	12,90	0,4	-	●	●	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-
CNMG120408FN	12,70	12,90	0,8	-	●	●	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-
CNMG120412FN	12,70	12,90	1,2	-	●	●	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-

Indexable Inserts for P-clamping.



■ CNMG-FP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CNMG120404FP	12,70	12,90	0,4	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-
CNMG120408FP	12,70	12,90	0,8	-	●	●	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	●	-
CNMG120412FP	12,70	12,90	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-



■ CNMG-FW

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CNMG120404FW	12,70	12,90	0,4	-	●	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-
CNMG120408FW	12,70	12,90	0,8	●	●	-	-	-	●	●	-	●	-	-	-	-	-	-	-	●	-	-	●	-
CNMG120412FW	12,70	12,90	1,2	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-

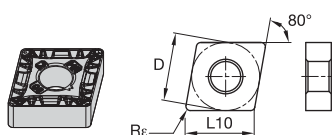
* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37

[illegible]



- alternate choice



■ CNMG-MR

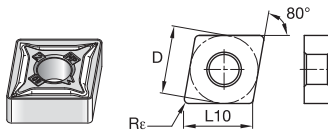
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCU5410	KT315	KTP10
CNMG090308MP	9,53	9,67	0,8	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	-	-
CNMG120404MP	12,70	12,90	0,4	-	-	-	-	-	-	-	-	●	●	●	-	-	-	-	-	●	-	-	-	-
CNMG120408MP	12,70	12,90	0,8	-	-	●	-	-	-	-	-	●	●	●	-	-	-	-	-	●	●	-	-	-
CNMG120412MP	12,70	12,90	1,2	-	-	-	-	-	-	-	-	●	●	●	-	-	-	-	-	●	●	-	-	-
CNMG120416MP	12,70	12,90	1,6	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-	●	-	-	-	-
CNMG160608MP	15,88	16,12	0,8	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	-	-
CNMG160612MP	15,88	16,12	1,2	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-	●	●	-	-	-
CNMG160616MP	15,88	16,12	1,6	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	-	-
CNMG190608MP	19,05	19,34	0,8	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-	●	-	-	-	-
CNMG190612MP	19,05	19,34	1,2	-	-	-	-	-	-	-	-	●	●	●	-	-	-	-	-	●	●	-	-	-
CNMG190616MP	19,05	19,34	1,6	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-	●	-	-	-	-

Technical drawing of a CNMG-MR insert. It shows a top view with dimensions D (width), L10 (length), and Rε (radius). A side view shows the 80° angle. A 3D perspective view is also included.

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCU5410	KT315	KTP10
CNMG120408MR	12,70	12,90	0,8	-	●	●	●	-	-	●	-	●	●	-	-	-	-	-	-	●	-	-	-	-
CNMG120412MR	12,70	12,90	1,2	-	●	●	●	-	-	●	-	●	●	-	-	-	-	-	-	●	-	-	-	-
CNMG120416MR	12,70	12,90	1,6	-	●	●	-	-	-	●	-	●	●	-	-	-	-	-	-	●	-	-	-	-
CNMG160608MR	15,88	16,12	0,8	-	●	●	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	-	-
CNMG160612MR	15,88	16,12	1,2	-	●	●	●	-	-	●	-	●	●	-	-	-	-	-	-	●	-	-	-	-
CNMG160616MR	15,88	16,12	1,6	-	●	●	-	-	-	●	-	●	●	-	-	-	-	-	-	●	-	-	-	-
CNMG190612MR	19,05	19,34	1,2	-	●	●	●	-	-	●	-	●	●	-	-	-	-	-	-	●	-	-	-	-
CNMG190616MR	19,05	19,34	1,6	-	●	●	-	-	-	-	-	●	●	-	-	-	-	-	-	●	-	-	-	-

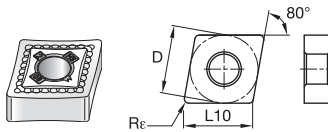
						
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37

beyond DRIVE™



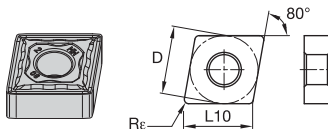
■ CNMG-MP1

ISO catalogue number	D	L10	Rε
CNMG120404MP1	12,70	12,90	0,4
CNMG120408MP1	12,70	12,90	0,8
CNMG120412MP1	12,70	12,90	1,2
CNMG160612MP1	15,88	16,12	1,2



■ CNMG-MS

ISO catalogue number	D	L10	Rε
CNMG120401MS	12,70	12,90	0,1
CNMG120402MS	12,70	12,90	0,2
CNMG120404MS	12,70	12,90	0,4
CNMG120408MS	12,70	12,90	0,8
CNMG120412MS	12,70	12,90	1,2
CNMG120416MS	12,70	12,90	1,6
CNMG160608MS	15,88	16,12	0,8
CNMG160612MS	15,88	16,12	1,2
CNMG190608MS	19,05	19,34	0,8
CNMG190612MS	19,05	19,34	1,2
CNMG190616MS	19,05	19,34	1,6



■ CNMG-MW

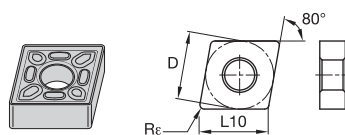
ISO catalogue number	D	L10	Rε
CNMG120408MW	12,70	12,90	0,8
CNMG120412MW	12,70	12,90	1,2

- first choice
○ alternate choice

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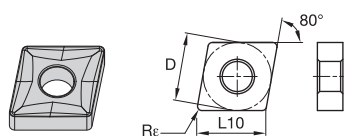
Indexable Inserts for P-clamping.

beyond DRIVE™



■ CNMG-P

ISO catalogue number	D	L10	Rε
CNMG120404P	12,70	12,90	0,4
CNMG120408P	12,70	12,90	0,8
CNMG120412P	12,70	12,90	1,2
CNMG120416P	12,70	12,90	1,6
CNMG543P	15,88	16,12	1,2
CNMG190612P	19,05	19,34	1,2



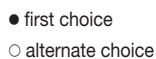
■ CNMG-RM

ISO catalogue number	D	L10	Rε
CNMG190616RM	19,05	19,34	1,6
CNMG250924RM	25,40	25,79	2,4

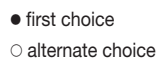
P	M	K	N	S	H	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
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○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37

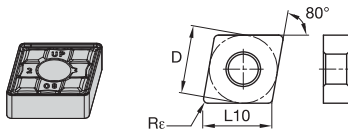
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ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CNMG120404RP	12,70	12,90	0,4	-	-	●	-	-	-	●	●	●	●	-	-	-	-	-	-	●	●	-	-	-
CNMG120408RP	12,70	12,90	0,8	●	●	●	●	-	●	●	●	●	●	-	●	-	-	-	-	●	●	-	-	-
CNMG120412RP	12,70	12,90	1,2	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	●	●	-	-	-
CNMG120416RP	12,70	12,90	1,6	-	●	●	-	-	-	●	-	-	-	-	●	-	-	-	-	●	●	-	-	-
CNMG160608RP	15,88	16,12	0,8	-	-	●	-	-	-	-	-	●	-	-	-	-	-	-	-	●	●	-	-	-
CNMG160612RP	15,88	16,12	1,2	-	●	●	-	●	-	●	●	●	●	●	●	-	-	-	-	●	●	-	-	-
CNMG160616RP	15,88	16,12	1,6	-	●	●	-	-	-	●	-	●	●	-	●	-	-	-	-	●	●	-	-	-
CNMG190612RP	19,05	19,34	1,2	-	●	●	-	●	-	●	●	●	●	-	-	-	-	-	-	●	●	-	-	-
CNMG190616RP	19,05	19,34	1,6	-	-	●	-	-	-	-	-	●	-	-	●	-	-	-	-	●	●	-	-	-

[illegible]

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

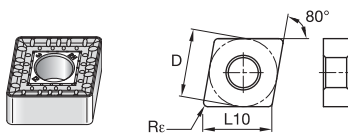




- first choice
- alternate choice

■ CNMG-UP

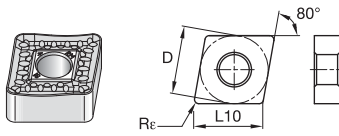
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CNMG120404UP	12,70	12,90	0,4	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-
CNMG120408UP	12,70	12,90	0,8	-	-	-	-	-	-	-	-	●	●	●	-	-	-	-	-	●	-	-	-	-
CNMG120412UP	12,70	12,90	1,2	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	-	-
CNMG160608UP	15,88	16,12	0,8	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-
CNMG160612UP	15,88	16,12	1,2	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-	●	-	-	-	-
CNMG190612UP	19,05	19,34	1,2	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-



■ CNMM-RH

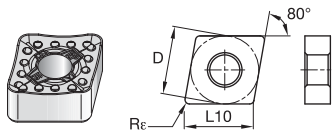
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CNMM190616RH	19,05	19,34	1,6	-	●	●	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNMM190624RH	19,05	19,34	2,4	-	●	●	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNMM250924RH	25,40	25,79	2,4	-	-	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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



■ CNMM-RM

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CNMM120408RM	12,70	12,90	0,8	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNMM120412RM	12,70	12,90	1,2	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNMM160612RM	15,88	16,12	1,2	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNMM160616RM	15,88	16,12	1,6	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNMM160624RM	15,88	16,12	2,4	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNMM190612RM	19,05	19,34	1,2	-	-	•	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNMM190616RM	19,05	19,34	1,6	-	•	•	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNMM190624RM	19,05	19,34	2,4	-	•	•	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNMM250924RM	25,40	25,79	2,4	-	-	•	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

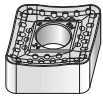


■ CNMM-RP

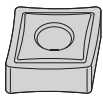
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CNMM120408RP	12,70	12,90	0,8	-	-	•	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-
CNMM120412RP	12,70	12,90	1,2	-	•	•	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-
CNMM120416RP	12,70	12,90	1,6	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNMM160608RP	15,88	16,12	0,8	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CNMM160612RP	15,88	16,12	1,2	-	•	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-
CNMM160616RP	15,88	16,12	1,6	-	•	•	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-
CNMM190612RP	19,05	19,34	1,2	-	-	•	-	-	-	-	-	-	•	-	•	-	-	-	-	-	-	-	-	-
CNMM190616RP	19,05	19,34	1,6	-	•	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-
CNMM190624RP	19,05	19,34	2,4	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37



- first choice
- alternate choice

[illegible]

- first choice
- alternate choice

[illegible]

- first choice
- alternate choice

[illegible]



- first choice
- alternate choice



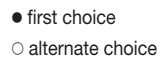
ISO catalogue number	D	L10	R _ε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CNMS120408	12,70	12,90	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	-
CNMS160608	15,88	16,12	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-
CNMS190608	19,05	19,34	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	-
CNMS190612	19,05	19,34	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-

Technical drawing of a DNGG-FS flange. The drawing includes a top view with dimensions D (outer diameter) and L10 (inner diameter), a side view showing a 55° chamfer, and a cross-section view showing the flange profile. A 3D isometric view is also provided.

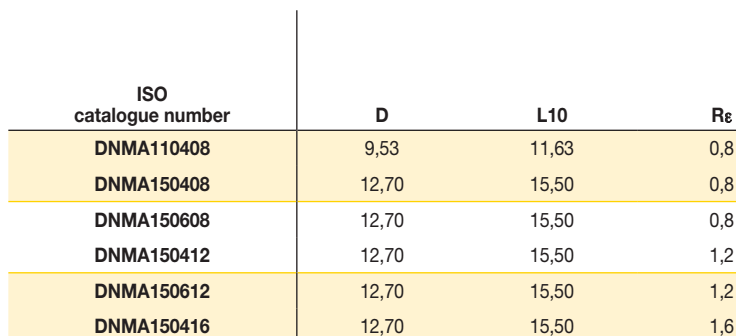
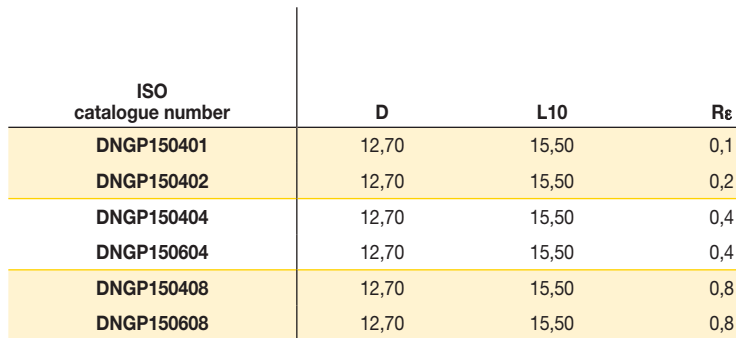
ISO catalogue number	D	L10	R _ε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DNGG110402FS	9,52	11,63	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
DNGG110404FS	9,52	11,63	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DNGG110408FS	9,52	11,63	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DNGG150401FS	12,70	15,50	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DNGG150402FS	12,70	15,50	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
DNGG150404FS	12,70	15,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
DNGG150604FS	12,70	15,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
DNGG150408FS	12,70	15,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
DNGG150608FS	12,70	15,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DNGG150412FS	12,70	15,50	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DNGG150416FS	12,70	15,50	1,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

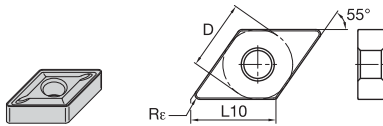




ISO catalogue number	D	L10	R _g
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DNGG150404LF	12,70	15,50	0,4
DNGG150408LF	12,70	15,50	0,8

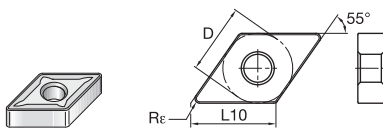
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● first choice
○ alternate choice



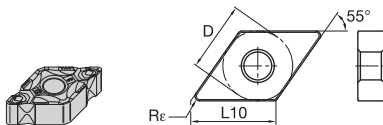
■ DNMG

ISO catalogue number	D	L10	Re
DNMG150408B	12,70	15,50	0,8



■ DNMG-33

ISO catalogue number	D	L10	Re
DNMG11040433	9,53	11,63	0,4
DNMG11040833	9,53	11,63	0,8
DNMG15060433	12,70	15,50	0,4
DNMG15060833	12,70	15,50	0,8



■ DNMG-CT

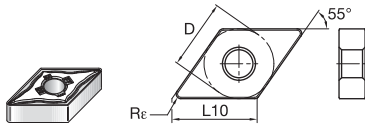
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DNMG150404CT	12,70	15,50	0,4
DNMG150408CT	12,70	15,50	0,8
DNMG150608CT	12,70	15,50	0,8
DNMG150612CT	12,70	15,50	1,1
DNMG150412CT	12,70	15,50	1,2

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* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37

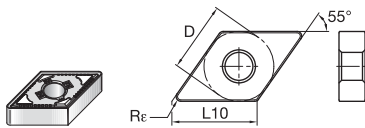
beyond **DRIVE™**



- first choice
- alternate choice

■ DNMG-FF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DNMG110404FF	9,53	11,63	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-
DNMG110408FF	9,53	11,63	0,8	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-
DNMG150404FF	12,70	15,50	0,4	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	●	-
DNMG150604FF	12,70	15,50	0,4	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-
DNMG150408FF	12,70	15,50	0,8	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-
DNMG150608FF	12,70	15,50	0,8	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-



■ DNMG-FN

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DNMG110404FN	9,53	11,63	0,4	-	●	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
DNMG110408FN	9,53	11,63	0,8	-	●	●	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
DNMG110412FN	9,53	11,63	1,2	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
DNMG150404FN	12,70	15,50	0,4	-	●	●	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-
DNMG150604FN	12,70	15,50	0,4	-	●	●	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-
DNMG150408FN	12,70	15,50	0,8	-	●	●	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-
DNMG150608FN	12,70	15,50	0,8	-	●	●	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-
DNMG150412FN	12,70	15,50	1,2	-	●	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
DNMG150612FN	12,70	15,50	1,2	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-



- first choice
- alternate choice

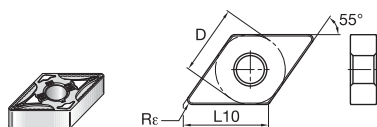
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ISO catalogue number	D	L10	R _ε																				
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DNMG110404FP	9,53	11,63	0,4	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	-	-
DNMG110408FP	9,53	11,63	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●
DNMG150404FP	12,70	15,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●
DNMG150604FP	12,70	15,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DNMG150408FP	12,70	15,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●
DNMG150608FP	12,70	15,50	0,8	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DNMG150412FP	12,70	15,50	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●
DNMG150612FP	12,70	15,50	1,2	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	-	●



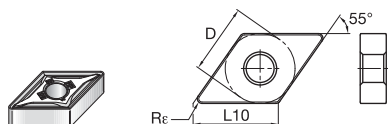
ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCU10	KCU15	KCU25	KC5410	KT315	KT310
DNMG110404FW	9,53	11,63	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-
DNMG110408FW	9,53	11,63	0,8	-	●	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-
DNMG150404FW	12,70	15,50	0,4	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	●	-
DNMG150408FW	12,70	15,50	0,4	-	●	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	-	●	-
DNMG150604FW	12,70	15,50	0,4	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DNMG150608FW	12,70	15,50	0,4	●	●	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	-	-	-

						
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37

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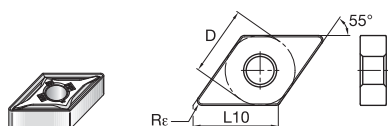
■ DNMG-MN

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DNMG110404MN	9,53	11,63	0,4	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DNMG110408MN	9,53	11,63	0,8	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DNMG110412MN	9,53	11,63	1,2	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DNMG150404MN	12,70	15,50	0,4	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DNMG150604MN	12,70	15,50	0,4	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DNMG150408MN	12,70	15,50	0,8	•	•	•	•	•	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-
DNMG150608MN	12,70	15,50	0,8	•	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DNMG150412MN	12,70	15,50	1,2	-	•	•	•	•	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-
DNMG150612MN	12,70	15,50	1,2	-	•	•	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DNMG150616MN	12,70	15,50	1,6	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DNMG190612MN	15,88	19,38	1,2	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



■ DNMG-MP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DNMG110408MP	9,53	11,63	0,8	-	-	-	-	-	-	-	-	•	•	-	-	-	-	-	-	•	-	-	-	-
DNMG110412MP	9,53	11,63	1,2	-	-	-	-	-	-	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-
DNMG150404MP	12,70	15,50	0,4	-	-	-	-	-	-	-	-	•	•	-	-	-	-	-	-	•	-	-	-	-
DNMG150604MP	12,70	15,50	0,4	-	-	-	-	-	-	-	-	•	•	-	-	-	-	-	-	•	-	-	-	-
DNMG150408MP	12,70	15,50	0,8	-	-	-	-	-	-	-	-	•	•	-	-	-	-	-	-	•	-	-	-	-
DNMG150608MP	12,70	15,50	0,8	-	-	-	-	-	-	-	-	•	•	•	-	-	-	-	-	•	•	-	-	-
DNMG150412MP	12,70	15,50	1,2	-	-	-	-	-	-	-	-	•	•	-	-	-	-	-	-	•	-	-	-	-
DNMG150612MP	12,70	15,50	1,2	-	-	-	-	-	-	-	-	•	•	-	-	-	-	-	-	•	•	-	-	-



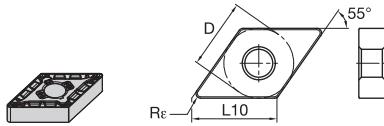
■ DNMG-MP1

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DNMG150408MP1	12,70	15,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
DNMG150608MP1	12,70	15,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-

- first choice
○ alternate choice

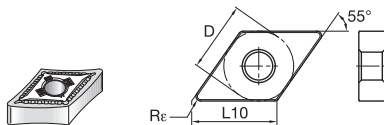
P	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
K	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
N	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
H	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

beyond DRIVE™



■ DNMG-MR

ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DNMG110408MR	9,53	11,63	0,8	-	•	•	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-
DNMG150404MR	12,70	15,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
DNMG150408MR	12,70	15,50	0,8	-	•	•	•	-	-	-	-	-	•	-	•	-	-	-	-	•	-	-	-	-
DNMG150608MR	12,70	15,50	0,8	-	•	•	-	-	•	•	-	•	•	-	-	-	-	-	-	•	-	-	-	-
DNMG150412MR	12,70	15,50	1,2	-	•	•	-	-	-	•	-	•	•	-	•	-	-	-	-	-	-	-	-	-
DNMG150612MR	12,70	15,50	1,2	-	•	•	-	-	-	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-
DNMG150616MR	12,70	15,50	1,6	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

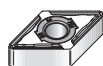


■ DNMG-MS

ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DNMG110408MS	9,53	11,63	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
DNMG150401MS	12,70	15,50	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
DNMG150402MS	12,70	15,50	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
DNMG150404MS	12,70	15,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	•	-	-	-
DNMG150604MS	12,70	15,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	•	-	-	-
DNMG150408MS	12,70	15,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	•	-	-	-
DNMG150608MS	12,70	15,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	•	-	-	-
DNMG150412MS	12,70	15,50	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
DNMG150612MS	12,70	15,50	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-

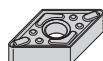
* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37



■ DNMG-MW

ISO catalogue number	D	L10	Re
DNMG150408MW	12,70	15,50	0,4
DNMG150608MW	12,70	15,50	0,4
DNMG150612MW	12,70	15,50	1,2



■ **DNMG-P**

ISO catalogue number	D	L10	Re
DNMG150404P	12,70	15,50	0,4
DNMG150408P	12,70	15,50	0,8
DNMG150608P	12,70	15,50	0,8

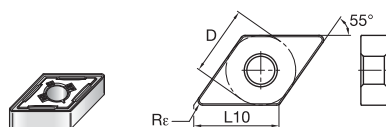


■ DNMG-RN

ISO catalogue number	D	L10	R _z
DNMG150408RN	12,70	15,50	0,8
DNMG150608RN	12,70	15,50	0,8
DNMG150412RN	12,70	15,50	1,2
DNMG150612RN	12,70	15,50	1,2
DNMG150416RN	12,70	15,50	1,6
DNMG150616RN	12,70	15,50	1,6
DNMG190608RN	15,88	19,38	0,8
DNMG190612RN	15,88	19,38	1,2

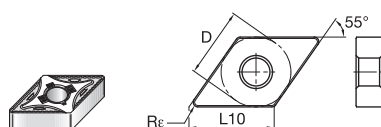
[illegible]

- first choice
- alternate choice



■ DNMG-RP

ISO catalogue number	D	L10	R _z
DNMG110408RP	9,53	11,63	0,8
DNMG110412RP	9,53	11,63	1,2
DNMG150408RP	12,70	15,50	0,8
DNMG150608RP	12,70	15,50	0,8
DNMG150412RP	12,70	15,50	1,2
DNMG150612RP	12,70	15,50	1,2
DNMG150416RP	12,70	15,50	1,6
DNMG150616RP	12,70	15,50	1,6



■ DNMG-UN

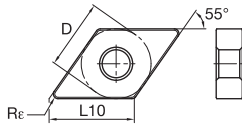
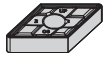
ISO catalogue number	D	L10	R _e
DNMG110408UN	9,53	11,63	0,8
DNMG110412UN	9,53	11,63	1,2
DNMG150408UN	12,70	15,50	0,8
DNMG150608UN	12,70	15,50	0,8
DNMG150412UN	12,70	15,50	1,2
DNMG150612UN	12,70	15,50	1,2
DNMG150416UN	12,70	15,50	1,6

[illegible]

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.



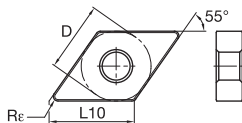
beyond DRIVE™



- first choice
- alternate choice

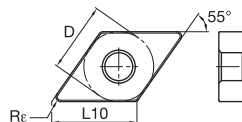
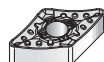
DNMG-UP

ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DNMG110408UP	9,53	11,63	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DNMG150404UP	12,70	15,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DNMG150408UP	12,70	15,50	0,8	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	-	-
DNMG150608UP	12,70	15,50	0,8	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	-	-
DNMG150412UP	12,70	15,50	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DNMG150612UP	12,70	15,50	1,2	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-



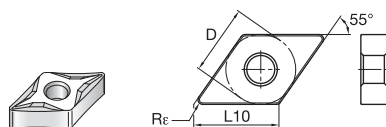
DNMM-RM

ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DNMM150608RM	12,70	15,50	0,8	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DNMM150412RM	12,70	15,50	1,2	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DNMM150612RM	12,70	15,50	1,2	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DNMM150616RM	12,70	15,50	1,6	-	●	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-



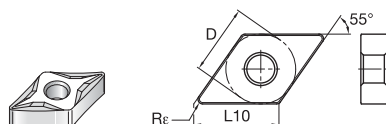
DNMM-RP

ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DNMM150608RP	12,70	15,50	0,8	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-
DNMM150612RP	12,70	15,50	1,2	-	-	●	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-
DNMM150616RP	12,70	15,50	1,6	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



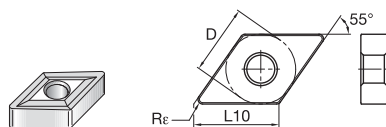
■ DNMP

ISO catalogue number	D	L10	Re
DNMP150404	12,70	15,50	0,4
DNMP150408	12,70	15,50	0,8
DNMP150412	12,70	15,50	1,2



■ DNMP-K

ISO catalogue number	D	L10	Re
DNMP110408K	9,53	11,63	0,8
DNMP150404K	12,70	15,50	0,4
DNMP150604K	12,70	15,50	0,4
DNMP150408K	12,70	15,50	0,8
DNMP150608K	12,70	15,50	0,8
DNMP150412K	12,70	15,50	1,2
DNMP150612K	12,70	15,50	1,2



■ DNMS

ISO catalogue number	D	L10	Re
DNMS150408	12,70	15,50	0,8

	H	S	N	K	M	P
						</

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37



ISO catalogue number	D	L10	R
RNMA120400	12,70	—	—
RNMA150600	15,88	—	—



ISO catalogue number	D	L10	R8
RNMG190600	19,05	—	—

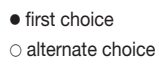


ISO catalogue number	D	L10	R8
RNMG090300RN	9,53	—	—
RNMG120400RN	12,70	—	—
RNMG150600RN	15,88	—	—
RNMG190600RN	19,05	—	—



ISO catalogue number	D	L10	R _e
RNMG120400UN	12,70	—	—

[illegible]



ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KT315
SNGG090308FS	9,53	9,53	0,8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—
SNGG120408FS	12,70	12,70	0,8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—

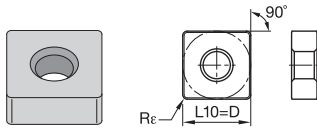


ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCU10	KCU25	KC5410	KT315	KT510
SNGG090308LF	9,53	9,53	0,8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—
SNGG150612LF	15,88	15,88	1,2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—



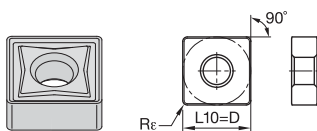
ISO catalogue number	D	L10	R _ε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP40
SNGP120404	12,70	12,70	0,4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—
SNGP120408	12,70	12,70	0,8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—

						
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37

beyond **DRIVE™**

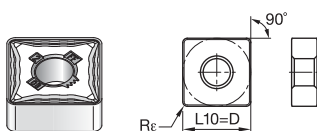
■ SNMA

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SNMA120408	12,70	12,70	0,8	-	-	-	-	-	•	•	-	-	-	-	-	-	-	•	-	-	-	-	-	-
SNMA120412	12,70	12,70	1,2	-	-	-	-	-	•	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-
SNMA120416	12,70	12,70	1,6	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-
SNMA150612	15,88	15,88	1,2	-	-	-	-	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-
SNMA190612	19,05	19,05	1,2	-	-	-	-	-	-	•	•	-	-	-	-	-	-	•	-	-	-	-	-	-
SNMA190616	19,05	19,05	1,6	-	-	-	-	-	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-



■ SNMG

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SNMG120408	12,70	12,70	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-
SNMG120412	12,70	12,70	1,2	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-
SNMG120416B	12,70	12,70	1,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-
SNMG190612	19,05	19,05	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-	-	-
SNMG190616B	19,05	19,05	1,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-
SNMG250924	25,40	25,40	2,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-

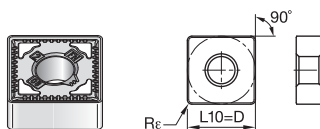


■ SNMG-FF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SNMG090304FF	9,53	9,53	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
SNMG090308FF	9,53	9,53	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-
SNMG120404FF	12,70	12,70	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
SNMG120408FF	12,70	12,70	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-

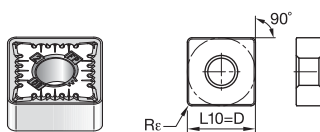
- first choice
○ alternate choice

P	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
K	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
N	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
H	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



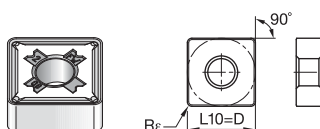
■ **SNMG-FN**

ISO catalogue number	D	L10	R _{0.05}
SNMG090308FN	9,53	9,53	0,8
SNMG120404FN	12,70	12,70	0,4
SNMG120408FN	12,70	12,70	0,8
SNMG120412FN	12,70	12,70	1,2



■ SNMG-FP

ISO catalogue number	D	L10	R _e
SNMG120404FP	12,70	12,70	0,4
SNMG120408FP	12,70	12,70	0,8
SNMG120412FP	12,70	12,70	1,2



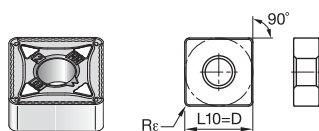
■ **SNMG-FW**

ISO catalogue number	D	L10	R _{0.05}
SNMG120412FW	12,70	12,70	1,2

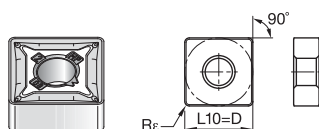
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* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.



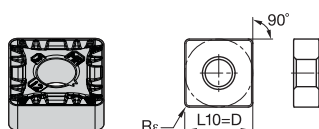


■ SNMG-MN

[illegible]

■ SNMG-MP

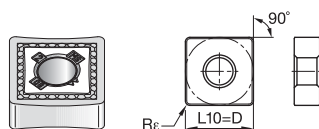
ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCS410	KT315	KT10
SNMG120408MP	12,70	12,70	0,8	-	-	-	-	-	-	●	-	●	●	-	-	-	-	-	-	●	-	-	-	-
SNMG120412MP	12,70	12,70	1,2	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	●	-	-	-
SNMG120416MP	12,70	12,70	1,6	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	-	-
SNMG150608MP	15,88	15,88	0,8	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-
SNMG150612MP	15,88	15,88	1,2	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	-	-
SNMG150616MP	15,88	15,88	1,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
SNMG190612MP	19,05	19,05	1,2	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	-	-
SNMG190616MP	19,05	19,05	1,6	-	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	●	-	-	-	-



■ **SNMG-MR**

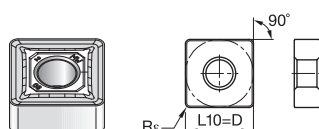
[illegible][illegible]

- alternate choice

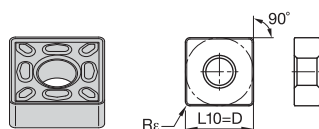


■ **SNMG-MS**

ISO catalogue number	D	L10	R _ε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KT10
SNMG120408MS	12,70	12,70	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
SNMG120412MS	12,70	12,70	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
SNMG150608MS	15,88	15,88	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-
SNMG150612MS	15,88	15,88	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-
SNMG190612MS	19,05	19,05	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-



■ SNMG-MW

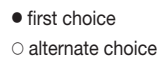
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■ **SNMG-P**

ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCS410	KT315	KT310
SNMG120408P	12,70	12,70	0,8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—
SNMG120412P	12,70	12,70	1,2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—

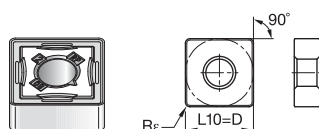
* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.





ISO catalogue number	D	L10	R _{0.05}
SNMG120408RN	12,70	12,70	0,8
SNMG120412RN	12,70	12,70	1,2
SNMG120416RN	12,70	12,70	1,6
SNMG150608RN	15,88	15,88	0,8
SNMG150612RN	15,88	15,88	1,2
SNMG150616RN	15,88	15,88	1,6
SNMG190608RN	19,05	19,05	0,8
SNMG190612RN	19,05	19,05	1,2
SNMG190616RN	19,05	19,05	1,6
SNMG190624RN	19,05	19,05	2,4
SNMG250924RN	25,40	25,40	2,4

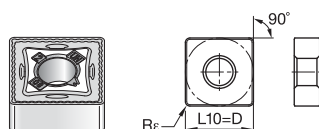
[illegible]



● first choice
○ alternate choice

■ SNMG-RP

ISO catalogue number	D	L10	Rε
SNMG120408RP	12,70	12,70	0,8
SNMG120412RP	12,70	12,70	1,2
SNMG120416RP	12,70	12,70	1,6
SNMG150612RP	15,88	15,88	1,2
SNMG150616RP	15,88	15,88	1,6
SNMG190612RP	19,05	19,05	1,2
SNMG190616RP	19,05	19,05	1,6



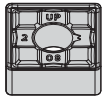
■ SNMG-UN

ISO catalogue number	D	L10	Rε
SNMG120408UN	12,70	12,70	0,8
SNMG120412UN	12,70	12,70	1,2
SNMG120416UN	12,70	12,70	1,6
SNMG150612UN	15,88	15,88	1,2
SNMG150616UN	15,88	15,88	1,6
SNMG190612UN	19,05	19,05	1,2
SNMG190616UN	19,05	19,05	1,6

P	M	K	N	S	H	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

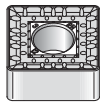
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37	



■ SNMG-UP

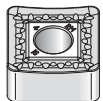
- first choice
- alternate choice

ISO catalogue number	D	L10	R _z
SNMG120408UP	12,70	12,70	0,8
SNMG120412UP	12,70	12,70	1,2
SNMG150612UP	15,88	15,88	1,2



■ SNMM-RH

ISO catalogue number	D	L10	R _z
SNMM190612RH	19,05	19,05	1,2
SNMM190616RH	19,05	19,05	1,6
SNMM190624RH	19,05	19,05	2,4
SNMM250724RH	25,40	25,40	2,4
SNMM250924RH	25,40	25,40	2,4
SNMM250732RH	25,40	25,40	3,2



■ SNMM-RM

ISO catalogue number	D	L10	R _e
SNMM150616RM	15,88	15,88	1,6
SNMM190612RM	19,05	19,05	1,2
SNMM190616RM	19,05	19,05	1,6
SNMM190624RM	19,05	19,05	2,4
SNMM250924RM	25,40	25,40	2,4

[illegible]



■ SNMM-RW

■ SNMP

ISO catalogue number	D	L10	R _z
SNMP120408	12,70	12,70	0,8
SNMP190612	19,05	19,05	1,2

						
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37



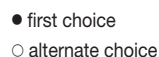
- first choice
- alternate choice

■ SNMS

■ TNGG-FS

■ TNGG-LF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCS410	KT315	KT310
TNGG160402LF	9,53	16,50	0,2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—
TNGG160404LF	9,53	16,50	0,4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—
TNGG160408LF	9,53	16,50	0,8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—

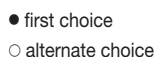


ISO catalogue number	D	L10	R _ε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KTP15
TNGP160402	9,53	16,50	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-
TNGP160404	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	●	-
TNGP160408	9,53	16,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	●	-

[illegible]

ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU25	KCS410	KT315	KT310
TNMG220412	12,70	22,00	1,2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	
TNMG220416	12,70	22,00	1,6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	

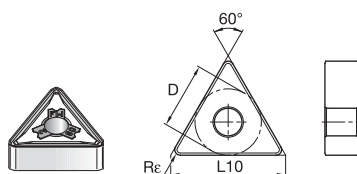
						
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37



ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCP05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TNMG110304FF	6,35	11,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TNMG160404FF	9,53	16,50	0,4	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	●	-
TNMG160408FF	9,53	16,50	0,8	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-

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ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCK15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TNMG160404FP	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-
TNMG160408FP	9,53	16,50	0,8	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	●	-
TNMG160412FP	9,53	16,50	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TNMG220404FP	12,70	22,00	0,4	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	-	-
TNMG220408FP	12,70	22,00	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-

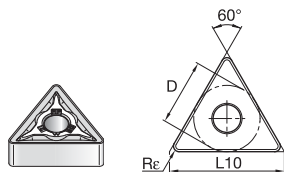


- first choice
- alternate choice

[illegible]

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

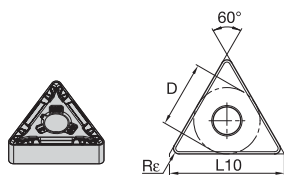


beyond **DRIVE™**

- first choice
○ alternate choice

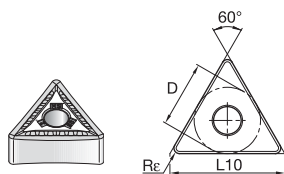
■ TNMG-MP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TNMG160404MP	9,53	16,50	0,4	-	-	-	-	-	-	-	-	●	●	●	-	-	-	-	-	●	-	-	-	-
TNMG160408MP	9,53	16,50	0,8	-	-	-	-	-	-	-	-	●	●	●	-	-	-	-	-	●	-	-	-	-
TNMG160412MP	9,53	16,50	1,2	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-	●	-	-	-	-
TNMG220408MP	12,70	22,00	0,8	-	●	-	-	-	-	-	-	●	●	-	-	-	-	-	-	●	-	-	-	-
TNMG220412MP	12,70	22,00	1,2	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	-	-
TNMG220416MP	12,70	22,00	1,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-



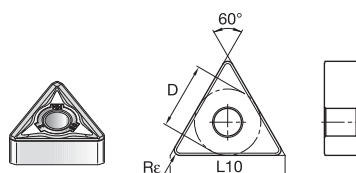
■ TNMG-MR

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
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TNMG160408MR	9,53	16,50	0,8	-	●	●	-	-	-	●	-	●	●	-	-	-	-	-	-	●	-	-	-	-
TNMG160412MR	9,53	16,50	1,2	-	●	●	-	-	-	●	-	●	-	-	-	-	-	-	-	-	-	-	-	-
TNMG220408MR	12,70	22,00	0,8	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TNMG220412MR	12,70	22,00	1,2	-	●	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-
TNMG270612MR	15,88	27,50	1,2	-	-	●	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-
TNMG270616MR	15,88	27,50	1,6	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-

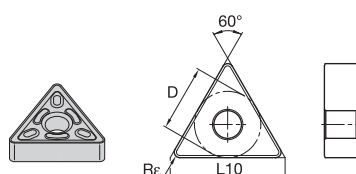


■ TNMG-MS

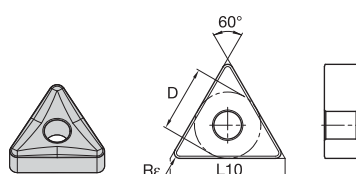
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TNMG160402MS	9,53	16,50	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
TNMG160404MS	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
TNMG160408MS	9,53	16,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
TNMG220404MS	12,70	22,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
TNMG220408MS	12,70	22,00	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	-	-	-
TNMG220412MS	12,70	22,00	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
TNMG270608MS	15,88	27,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-
TNMG270616MS	15,88	27,50	1,6	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-



- first choice
- alternate choice

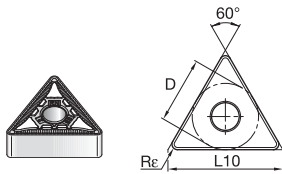
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TNMG160404P	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TNMG160408P	9,53	16,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TNMG220404P	12,70	22,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TNMG220408P	12,70	22,00	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TNMG220412P	12,70	22,00	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-



ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCS410	KT315	KT10
TNMG330924RM	19,05	32,99	2,4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—

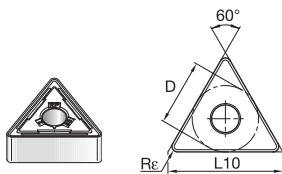
						
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37

beyond **DRIVE™**

- first choice
○ alternate choice

■ TNMG-RN

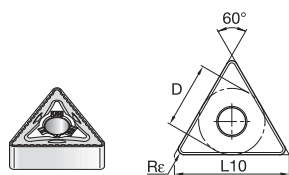
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TNMG160408RN	9,53	16,50	0,8	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMG160412RN	9,53	16,50	1,2	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMG220408RN	12,70	22,00	0,8	-	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMG220412RN	12,70	22,00	1,2	-	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMG220416RN	12,70	22,00	1,6	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMG270608RN	15,88	27,50	0,8	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMG270612RN	15,88	27,50	1,2	-	●	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMG270616RN	15,88	27,50	1,6	-	-	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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■ TNMG-RP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TNMG160408RP	9,53	16,50	0,8	-	●	●	-	-	-	●	●	-	●	-	-	-	-	-	-	●	●	-	-	-
TNMG160412RP	9,53	16,50	1,2	-	●	●	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TNMG220408RP	12,70	22,00	0,8	-	●	●	-	●	-	-	●	-	●	-	●	-	-	-	-	●	●	-	-	-
TNMG220412RP	12,70	22,00	1,2	-	-	●	-	-	-	●	●	-	●	-	●	-	-	-	-	●	●	-	-	-
TNMG220416RP	12,70	22,00	1,6	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
TNMG220432RP	12,70	22,00	3,2	-	●	●	-	-	-	-	●	-	●	-	-	-	-	-	-	●	-	-	-	-
TNMG270612RP	15,88	27,50	1,2	-	-	●	-	-	-	-	●	-	●	-	-	-	-	-	-	●	●	-	-	-
TNMG270616RP	15,88	27,50	1,6	-	-	●	-	●	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-
TNMG330924RP	19,05	33,00	2,4	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-

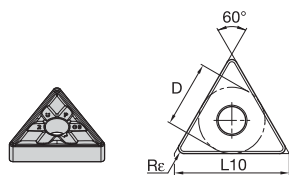
beyond **DRIVE™**



- first choice
- alternate choice

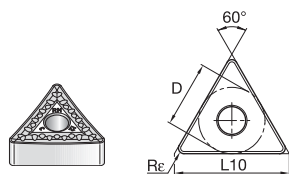
■ TNMG-UN

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TNMG160408UN	9,53	16,50	0,8	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMG160412UN	9,53	16,50	1,2	-	-	-	-	-	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMG160416UN	9,53	16,50	1,6	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMG220408UN	12,70	22,00	0,8	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMG220412UN	12,70	22,00	1,2	-	-	-	-	-	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMG220416UN	12,70	22,00	1,6	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



■ TNMG-UP

ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TNMG160408UP	9,53	16,50	0,8	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-
TNMG160412UP	9,53	16,50	1,2	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-
TNMG220408UP	12,70	22,00	0,8	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-

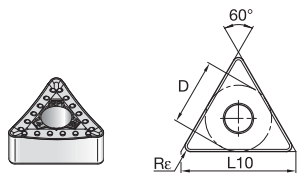


■ TNMM-RM

ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TNMM160408RM	9,53	16,50	0,8	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMM220408RM	12,70	22,00	0,8	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMM220412RM	12,70	22,00	1,2	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TNMM220416RM	12,70	22,00	1,6	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

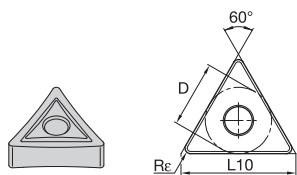
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37	



- first choice
- alternate choice

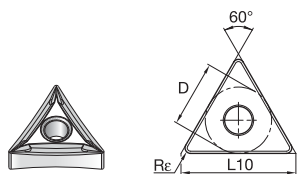
■ TNMM-RP

ISO catalogue number	D	L10	R
TNMM220408RP	12,70	22,00	0,8
TNMM220412RP	12,70	22,00	1,2
TNMM270616RP	15,88	27,50	1,6



TNMP

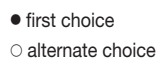
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TNMP160404	9,53	16,50	0,4
TNMP160408	9,53	16,50	0,8
TNMP220416	12,70	22,00	1,6



■ TNMP-K

ISO catalogue number	D	L10	R
TNMP160404K	9,53	16,50	0,4
TNMP160408K	9,53	16,50	0,8
TNMP220408K	12,70	22,00	0,8

[illegible]



ISO catalogue number	D	L10	R
TNMS160404	9,53	16,50	0,4
TNMS160408	9,53	16,50	0,8
TNMS220408	12,70	22,00	0,8



ISO catalogue number	D	L10	R ₀
VNGA160404	9,53	16,61	0,4
VNGA160408	9,53	16,61	0,8



ISO catalogue number	D	L10	R8
VNKG160401FS	9,53	16,61	0,1
VNKG160402FS	9,53	16,61	0,2
VNKG160404FS	9,53	16,61	0,4
VNKG160408FS	9,53	16,61	0,8
VNKG160412FS	9,53	16,61	1,2

[illegible]

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.





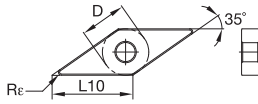
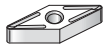
VNGP

■ VNGP-K

VNMA

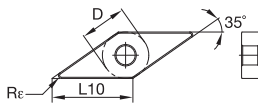
ISO catalogue number	D	L10	R _e
VNMA160408	9,53	16,61	0,8

[illegible]



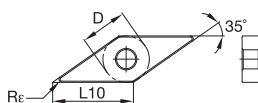
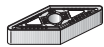
VNMG

ISO catalogue number	D	L10	R _E
VNMG160408	9,53	16,61	0,8
VNMG160412	9,53	16,61	1,2
VNMG220408	12,70	22,14	0,8
VNMG220412	12,70	22,14	1,2



■ **VNMG-FF**

ISO catalogue number	D	L10	R _z
VNMG160404FF	9,53	16,61	0,4
VNMG160408FF	9,53	16,61	0,8



VNMG-FN

ISO catalogue number	D	L10	R _e
VNMG160404FN	9,53	16,61	0,4
VNMG160408FN	9,53	16,61	0,8

[illegible]

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.



C2-C71

C72-C109

C110–C115

C116-C147

B10-B23

	B24-B31
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B32-B37



■ **VNMG-FP**

ISO catalogue number	D	L10	R _e
VNMG160404FP	9,53	16,61	0,4
VNMG160408FP	9,53	16,61	0,8



VNMG-MN

ISO catalogue number	D	L10	R _z
VNMG160404MN	9,53	16,61	0,4
VNMG160408MN	9,53	16,61	0,8



■ VNMG-MP

ISO catalogue number	D	L10	R _e
VNMG160404MP	9,53	16,61	0,4
VNMG160408MP	9,53	16,61	0,8
VNMG160412MP	9,53	16,61	1,2

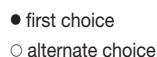


■ VNMG-MP1

ISO catalogue number	D	L10	R _e
VNMG160408MP1	9,53	16,61	0,8

[illegible]

- first choice
- alternate choice



ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCK15B	KCK25B	KCK35B	KCPK05	KU10	K313	K68	KGS10	KCU10	KCU25	KC5410	KT315	KTB10
VNMG160401MS	9,53	16,61	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
VNMG160402MS	9,53	16,61	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	-	-	-
VNMG160404MS	9,53	16,61	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	-	-	-
VNMG160408MS	9,53	16,61	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	-	-	-
VNMG220404MS	12,70	22,14	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
VNMG220408MS	12,70	22,14	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-



ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCU10	KCU25	KC5410	KT315	KT510
VNMG160404P	9,53	16,61	0,4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
VNMG160408P	9,53	16,61	0,8	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	●	—	—	—

[illegible]

						
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37



- first choice
- alternate choice

[illegible][illegible]

ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCS410	KT315	KT310
VNMG160404UP	9,53	16,61	0,4	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	●	-	-	-	-	-
VNMG160408UP	9,53	16,61	0,8	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	●	-	-	-	-	-



ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KT310
VNMP160408	9,52	16,61	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-
VNMP160404	9,53	16,61	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-



- first choice
- alternate choice

ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCS410	KT315	KT310
VNMP160404K	9,53	16,61	0,4	—	—	●	●	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	—	
VNMP160408K	9,53	16,61	0,8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	—	



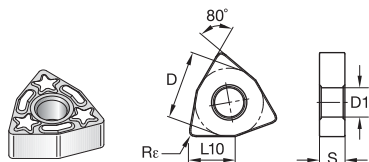
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTIP10
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●
VNMS160404	9,53	16,61	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	-
VNMS160408	9,53	16,61	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●	-	-



ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCU10	KCU25	KCS410	KT315	KT310
WNGG080404FS	12,70	8,69	0,4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—
WNGG080408FS	12,70	8,69	0,8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—

						
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37

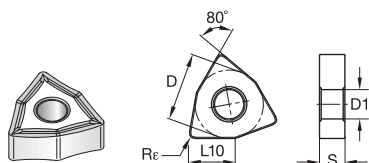
beyond **DRIVE™**



- first choice
- alternate choice

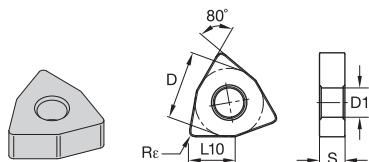
■ **WNGG-LF**

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNGG080401LF	12,70	8,69	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
WNGG080402LF	12,70	8,69	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
WNGG080404LF	12,70	8,69	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
WNGG080408LF	12,70	8,69	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-



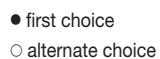
■ **WNGP-K**

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNGP080408K	12,70	8,69	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-



■ **WNMA**

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMA060408	9,53	6,52	0,8	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-
WNMA060412	9,53	6,52	1,2	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-
WNMA080408	12,70	8,69	0,8	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMA080412	12,70	8,69	1,2	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMA080416	12,70	8,69	1,6	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-



ISO catalogue number	D	L10	R _ε
WNMG060404FF	9,53	6,52	0,4
WNMG060408FF	9,53	6,52	0,8
WNMG080404FF	12,70	8,69	0,4
WNMG080408FF	12,70	8,69	0,8

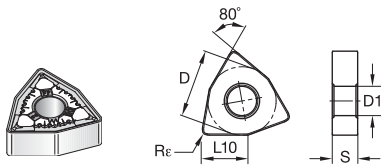


ISO catalogue number	D	L10	R8
WNMG060404FN	9,53	6,52	0,4
WNMG060408FN	9,53	6,52	0,8
WNMG080404FN	12,70	8,69	0,4
WNMG080408FN	12,70	8,69	0,8

[illegible]

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

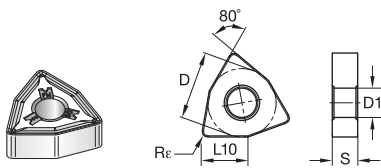


beyond **DRIVE™**

- first choice
- alternate choice

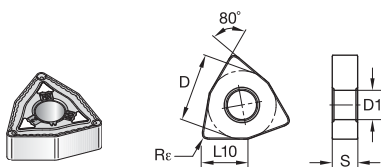
■ WNMG-FP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG060404FP	9,53	6,52	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
WNMG060408FP	9,53	6,52	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
WNMG080404FP	12,70	8,69	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
WNMG080408FP	12,70	8,69	0,8	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	-	-
WNMG080412FP	12,70	8,69	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-



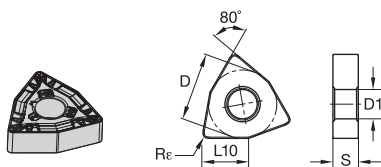
■ WNMG-FW

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG060404FW	9,53	6,52	0,4	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-
WNMG060408FW	9,53	6,52	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-
WNMG080404FW	12,70	8,69	0,4	●	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	●	-
WNMG080408FW	12,70	8,69	0,8	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-
WNMG080412FW	12,70	8,69	1,2	-	●	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



■ WNMG-MN

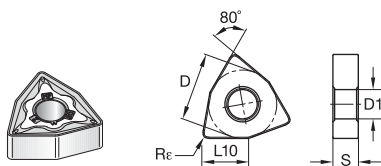
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG060404MN	9,53	6,52	0,4	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMG060408MN	9,53	6,52	0,8	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMG060412MN	9,53	6,52	1,2	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMG080408MN	12,70	8,69	0,8	-	●	●	●	●	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-
WNMG080412MN	12,70	8,69	1,2	-	●	●	-	●	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-
WNMG080416MN	12,70	8,69	1,6	-	●	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-

beyond DRIVE™


- first choice
- alternate choice

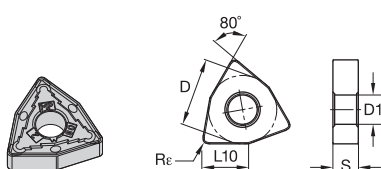
WNMG-MR

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG060408MR	9,52	6,52	0,8	-	●	●	-	-	-	-	-	●	●	-	-	-	-	-	-	●	-	-	-	-
WNMG080408MR	12,70	8,69	0,8	-	●	●	-	-	●	-	-	●	●	●	●	-	-	-	-	●	-	-	-	-
WNMG080412MR	12,70	8,69	1,2	-	●	●	-	-	-	-	-	●	●	-	●	-	-	-	-	-	-	-	-	-
WNMG080416MR	12,70	8,69	1,6	-	●	●	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-



WNMG-MP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG060404MP	9,53	6,52	0,4	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	-	-
WNMG060408MP	9,53	6,52	0,8	-	-	-	-	-	-	-	-	-	●	●	-	-	-	-	-	●	-	-	-	-
WNMG080408MP	12,70	8,69	0,8	-	-	-	-	-	-	-	-	●	●	●	-	-	-	-	-	●	-	-	-	-
WNMG080412MP	12,70	8,69	1,2	-	-	-	-	-	-	-	-	●	●	●	-	-	-	-	-	●	-	-	-	-

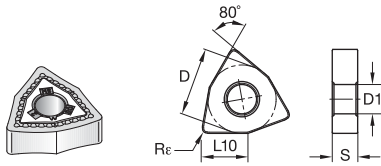


WNMG-MP1

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG080408MP1	12,70	8,69	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

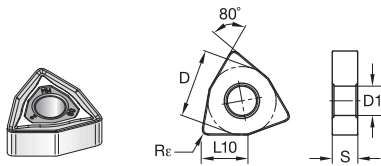
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37	



- first choice
- alternate choice

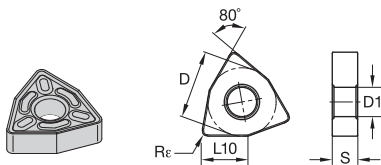
■ **WNMG-MS**

ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG060408MS	9,53	6,52	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	-	-	-
WNMG080401MS	12,70	8,69	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
WNMG080402MS	12,70	8,69	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
WNMG080404MS	12,70	8,69	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	-	-	-
WNMG080408MS	12,70	8,69	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	-	-	-



■ **WNMG-MW**

ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG080408MW	12,70	8,69	0,8	-	●	●	-	-	-	●	-	●	-	-	●	-	-	-	-	-	-	-	-	-
WNMG080412MW	12,70	8,69	1,2	-	●	●	-	-	-	-	-	●	-	-	●	-	-	-	-	-	-	-	-	-

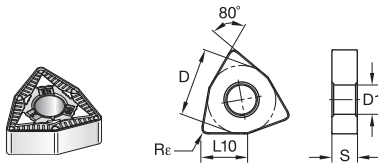


■ **WNMG-P**

ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG080404P	12,70	8,69	0,4	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	-	-
WNMG080408MP	12,70	8,69	0,8	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMG080408P	12,70	8,69	0,8	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	-	-

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

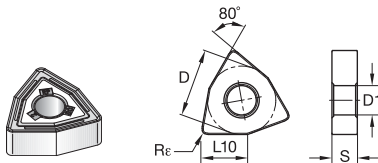
beyond **DRIVE™**



- first choice
- alternate choice

■ WNMG-RN

ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG060408RN	9,53	6,52	0,8	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMG080408RN	12,70	8,69	0,8	-	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMG080412RN	12,70	8,69	1,2	●	●	●	●	●	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-
WNMG080416RN	12,70	8,69	1,6	-	●	●	-	●	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-



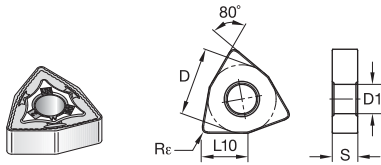
■ WNMG-RP

ISO catalogue number	D	L10	Re	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG060408RP	9,53	6,52	0,8	-	●	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	●	-	-	-
WNMG060412RP	9,53	6,52	1,2	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMG080408RP	12,70	8,69	0,8	-	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	●	●	-	-	-
WNMG080412RP	12,70	8,69	1,2	-	●	●	-	-	-	-	●	-	●	●	●	-	-	-	-	●	●	-	-	-
WNMG080416RP	12,70	8,69	1,6	-	●	●	-	-	-	●	-	-	-	-	-	-	-	-	-	●	●	-	-	-

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37	

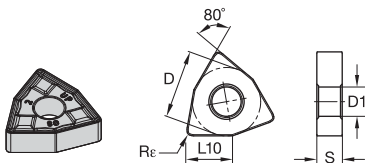
beyond **DRIVE™**



- first choice
- alternate choice

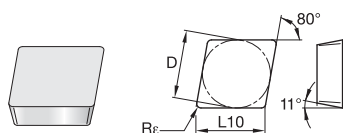
■ WNMG-UN

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG060408UN	9,53	6,52	0,8	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMG060412UN	9,53	6,52	1,2	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMG080404UN	12,70	8,69	0,4	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMG080408UN	12,70	8,69	0,8	-	-	-	-	-	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMG080412UN	12,70	8,69	1,2	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-
WNMG080416UN	12,70	8,69	1,6	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



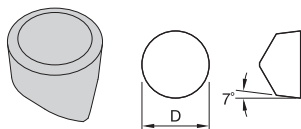
■ WNMG-UP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
WNMG060408UP	9,53	6,52	0,8	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-
WNMG080408UP	12,70	8,69	0,8	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	-	-
WNMG080412UP	12,70	8,69	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-



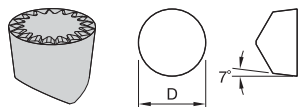
CPGN

ISO catalogue number	D	L10	R
CPGN120304	12,70	12,90	0,4
CPGN120308	12,70	12,90	0,8



RCGV

ISO catalogue number	D	L10	R _e
RCGV060400	6,35	—	—
RCGV090700	9,53	—	—
RCGV120700	12,70	—	—



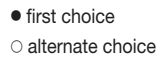
■ RCGV-MP

ISO catalogue number	D	L10	R _e
RCGX060400MP	6,35	—	—
RCGX090700MP	9,53	—	—
RCGX120700MP	12,70	—	—

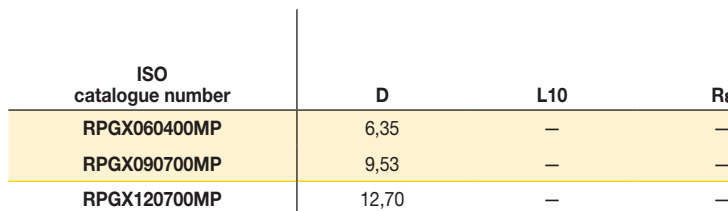
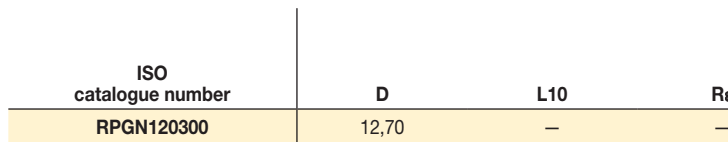
[illegible]

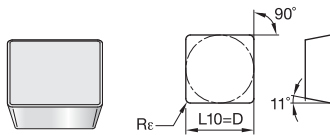
* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.



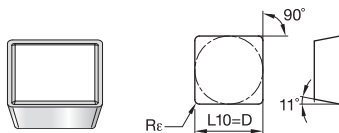


ISO catalogue number	D	L10	R
RCMK040300MP	4,76	—	—
RCMK060400MP	6,35	—	—
RCMK090700MP	9,53	—	—

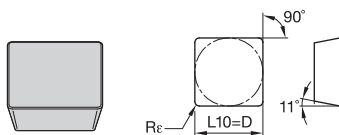
[illegible]

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■ SPGN

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SPGN090304	9,53	9,53	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-
SPGN090308	9,53	9,53	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	•	-	-	-	-
SPGN090312	9,53	9,53	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	-	-	-	-
SPGN120304	12,70	12,70	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-	-	-
SPGN120308	12,70	12,70	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	-	-	-	-
SPGN120312	12,70	12,70	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	-	-	-	-
SPGN120412	12,70	12,70	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-
SPGN120316	12,70	12,70	1,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-
SPGN190408	19,05	19,05	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	•	-	-	-	-
SPGN190412	19,05	19,05	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	•	-	-	-	-


■ SPGR-K

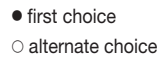
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SPGR090308K	9,53	9,53	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-


■ SPUN

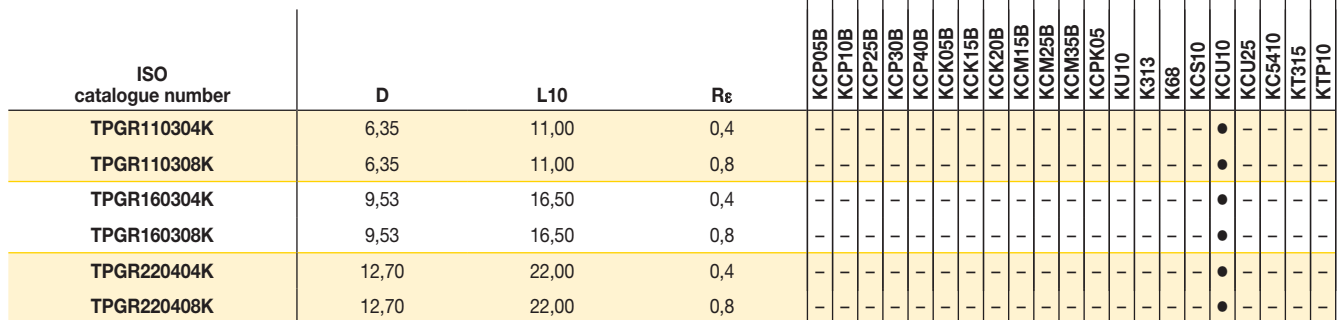
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SPUN120304	12,70	12,70	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-
SPUN120308	12,70	12,70	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

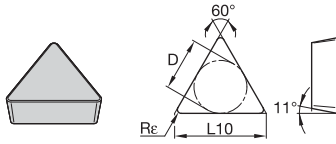
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37	



ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KT10
TPGN110304	6,35	11,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	●	-	-	-	-
TPGN110308	6,35	11,00	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	●	-	-	-	-
TPGN160302	9,53	16,50	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	●	-	-	-	-
TPGN160304	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	●	-	-	-	-
TPGN160308	9,53	16,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	●	-	-	-	-
TPGN160312	9,53	16,50	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	●	-	-	-	-
TPGN160316	9,53	16,50	1,6	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	●	-	-	-	-
TPGN220404	12,70	22,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	●	-	-	-	-
TPGN220408	12,70	22,00	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	●	-	-	-	-
TPGN220412	12,70	22,00	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	●	-	-	-	-
TPGN220416	12,70	22,00	1,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	●	-	-	-	-

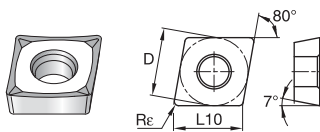


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■ TPUN

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TPUN110304	6,35	11,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPUN110308	6,35	11,00	0,8	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPUN160304	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPUN160308	9,53	16,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPUN220408	12,70	22,00	0,8	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPUN220412	12,70	22,00	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

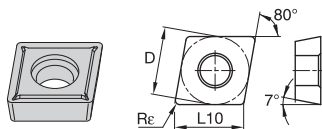


■ CCGT-HP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CCGT060202HP	6,35	6,45	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	●	-	-
CCGT060204HP	6,35	6,45	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	●	-	-
CCGT060208HP	6,35	6,45	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	-	-
CCGT09T302HP	9,53	9,67	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	●	-	-
CCGT09T304HP	9,53	9,67	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	●	-	-
CCGT09T308HP	9,53	9,67	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	-	-
CCGT120402HP	12,70	12,90	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
CCGT120404HP	12,70	12,90	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	●	-	-
CCGT120408HP	12,70	12,90	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	●	-	-

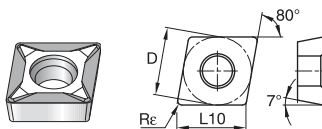
* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37



■ CCGT-LF

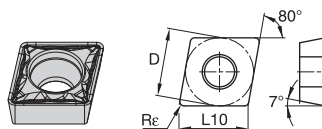
ISO catalogue number	D	L10	Re
CCGT060201LF	6,35	6,45	0,1
CCGT060202LF	6,35	6,45	0,2
CCGT060204LF	6,35	6,45	0,4
CCGT060208LF	6,35	6,45	0,8
CCGT09T301LF	9,53	9,67	0,1
CCGT09T302LF	9,53	9,67	0,2
CCGT09T304LF	9,53	9,67	0,4
CCGT09T308LF	9,53	9,67	0,8



■ CCMT-11

ISO catalogue number	D	L10	R6
CCMT06020411	6,35	6,45	0,4
CCMT09T30411	9,53	9,67	0,4
CCMT09T30811	9,53	9,67	0,8

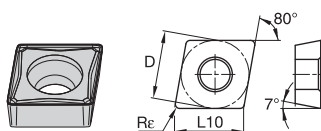
Indexable Inserts for S-clamping.



■ CCMT-FP

ISO catalogue number	D	L10	R _e
CCMT060202FP	6,35	6,45	0,2
CCMT060204FP	6,35	6,45	0,4
CCMT060208FP	6,35	6,45	0,8
CCMT09T302FP	9,53	9,67	0,2
CCMT09T304FP	9,53	9,67	0,4
CCMT09T308FP	9,53	9,67	0,8
CCMT120404FP	12,70	12,90	0,4
CCMT120408FP	12,70	12,90	0,8

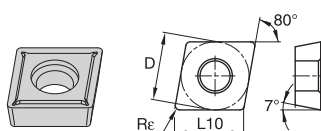
[illegible]

beyond DRIVE™


- first choice
- alternate choice

■ CCMT-FW

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CCMT060202FW	6,35	6,45	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	●	-	-
CCMT060204FW	6,35	6,45	0,4	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	-	●	-
CCMT060208FW	6,35	6,45	0,8	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	-	●	-
CCMT09T304FW	9,53	9,67	0,4	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	-	●	-
CCMT09T308FW	9,53	9,67	0,8	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	●	-	-	●	-



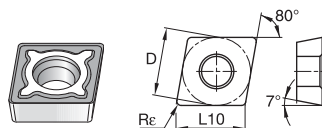
■ CCMT-LF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CCMT060202LF	6,35	6,45	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CCMT060204LF	6,35	6,45	0,4	-	●	●	-	-	●	●	●	●	●	-	-	-	●	-	-	-	-	-	●	-
CCMT060208LF	6,35	6,45	0,8	-	-	●	-	-	●	●	●	●	●	-	-	-	-	-	-	-	-	-	●	-
CCMT09T302LF	9,53	9,67	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-
CCMT09T302LF	9,53	9,67	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CCMT09T304LF	9,53	9,67	0,4	●	●	●	●	-	●	●	●	●	●	-	-	-	●	●	-	-	-	-	●	-
CCMT09T308LF	9,53	9,67	0,8	●	●	●	-	-	●	●	●	●	●	-	-	-	●	-	-	-	-	-	●	-
CCMT120404LF	12,70	12,90	0,4	-	-	●	-	-	-	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-
CCMT120408LF	12,70	12,90	0,8	-	●	●	●	-	-	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-
CCMT120412LF	12,70	12,90	1,2	-	-	●	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37	

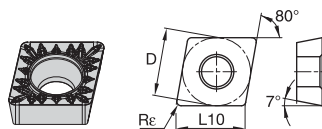
beyond DRIVE™



● first choice
○ alternate choice

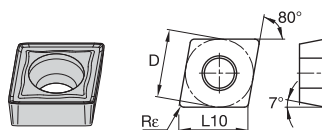
■ CCMT-MF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CCMT060204MF	6,35	6,45	0,4	-	●	●	-	-	-	-	-	●	●	●	-	-	-	-	-	-	-	-	-	-
CCMT09T304MF	9,53	9,67	0,4	-	●	●	-	-	-	●	●	●	●	●	-	-	-	-	-	-	-	-	-	-
CCMT09T308MF	9,53	9,67	0,8	-	●	●	-	-	-	●	●	●	●	●	-	-	-	-	-	-	-	-	-	-
CCMT3252MF	9,53	9,67	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-
CCMT09T312MF	9,53	9,67	1,2	-	●	●	-	-	-	-	●	●	●	●	-	-	-	-	-	-	-	-	-	-
CCMT120408MF	12,70	12,90	0,8	-	●	●	-	-	-	●	●	●	●	●	-	-	-	-	-	-	-	-	-	-
CCMT120412MF	12,70	12,90	1,2	-	-	●	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-



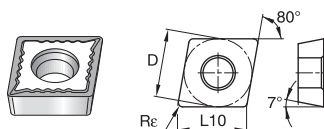
■ CCMT-MP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CCMT060204MP	6,35	6,45	0,4	-	-	-	-	-	-	●	●	●	●	●	-	-	-	-	-	●	-	-	-	-
CCMT09T304MP	9,53	9,67	0,4	-	-	-	-	-	-	●	●	●	●	●	-	-	-	-	-	●	-	-	-	-
CCMT09T308MP	9,53	9,67	0,8	-	-	-	-	-	-	●	●	●	●	●	-	-	-	-	-	●	-	-	-	-
CCMT120408MP	12,70	12,90	0,8	-	-	-	-	-	-	●	●	●	●	●	-	-	-	-	-	●	-	-	-	-
CCMT120412MP	12,70	12,90	1,2	-	-	-	-	-	-	●	●	-	●	-	-	-	-	-	-	-	-	-	-	-



■ CCMT-MW

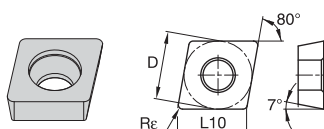
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CCMT09T304MW	9,53	9,67	0,4	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	●	-
CCMT09T308MW	9,53	9,67	0,8	-	-	-	-	-	-	●	●	●	-	-	-	-	-	-	-	●	-	-	●	-
CCMT120404MW	12,70	12,90	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
CCMT120408MW	12,70	12,90	0,8	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	●	-	-	-	-



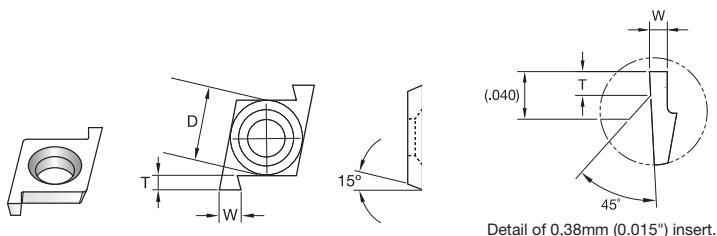
- first choice
- alternate choice

■ CCMT-UF

ISO catalogue number	D	L10	R _{0.2}
CCMT060204UF	6,35	6,45	0,4
CCMT09T304UF	9,53	9,67	0,4
CCMT09T308UF	9,53	9,67	0,8



ISO catalogue number	D	L10	R _{0.05}
CCMW060204	6,35	6,45	0,4
CCMW09T304	9,53	9,67	0,4
CCMW09T308	9,53	9,67	0,8
CCMW120408	12,70	12,90	0,8
CCMW120412	12,70	12,90	1,2



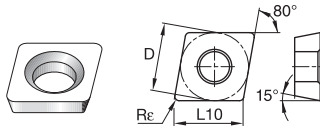
CDG

ISO catalogue number	D	T	W
CDG127076R	3,96	1,02	0,8
CDG127102R	3,96	1,02	1,0

[illegible]

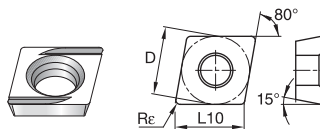
* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.





CDHB

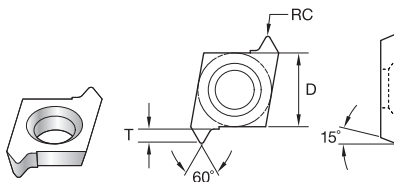
ISO catalogue number	D	L10	R
CDHBS4T0S0	3,97	4,03	0,1
CDHBS4T0X0	3,97	4,03	0,1
CDHBS4T002	3,97	4,03	0,2
CDHBS4T004	3,97	4,03	0,4



CDHH

ISO catalogue number	D	L10	Rε
CDHHS4T002L	3,97	4,03	0,2
CDHHS4T002R	3,97	4,03	0,2
CDHHS4T004L	3,97	4,03	0,4
CDHHS4T004R	3,97	4,03	0,4

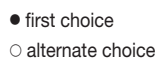
NOTE: Right-hand insert uses left-hand bars. Left-hand insert uses right-hand bars.



■ CDT

ISO catalogue number	D	T	RC
CDT127005R	3,96	0,64	0,1

[illegible]



ISO catalogue number	D	T	W
CPG190150L	6,35	1,65	1,5
CPG190150R	6,35	1,65	1,5



ISO catalogue number	D	L10	R _{0.05}
CPGT060202K	6,35	6,45	0,2
CPGT060204K	6,35	6,45	0,4
CPGH09T301	9,53	9,67	0,1
CPGH09T302	9,53	9,67	0,2
CPGH09T304	9,53	9,67	0,4
CPGH09T308	9,53	9,67	0,8



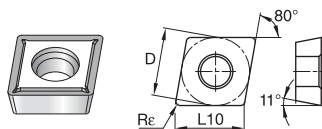
ISO catalogue number	D	L10	Rε
CPGT060202HP	6,35	6,45	0,2
CPGT060204HP	6,35	6,45	0,4
CPGT060208HP	6,35	6,45	0,8
CPGT09T302HP	9,53	9,67	0,2
CPGT09T304HP	9,53	9,67	0,4
CPGT09T308HP	9,53	9,67	0,8

[illegible]

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

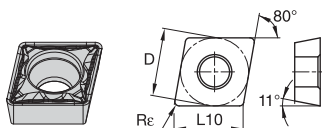


beyond DRIVE™



■ CPGT-LF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CPGT060201LF	6,35	6,45	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-
CPGT060202LF	6,35	6,45	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
CPGT060204LF	6,35	6,45	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-
CPGT060208LF	6,35	6,45	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
CPGT09T302LF	9,53	9,67	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
CPGT09T304LF	9,53	9,67	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-
CPGT09T308LF	9,53	9,67	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-



■ CPMT-FP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
CPMT050202FP	5,56	5,65	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
CPMT050204FP	5,56	5,65	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
CPMT060202FP	6,35	6,45	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	•
CPMT060204FP	6,35	6,45	0,4	-	-	•	-	-	-	•	-	-	-	-	-	•	-	-	-	•	•	-	-	•
CPMT060208FP	6,35	6,45	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	•
CPMT09T302FP	9,53	9,67	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	•
CPMT09T304FP	9,53	9,67	0,4	-	-	•	-	-	-	•	-	-	-	-	-	•	-	-	-	•	•	-	-	•
CPMT09T308FP	9,53	9,67	0,8	-	•	•	-	-	-	-	-	-	-	-	-	•	-	-	-	•	•	-	-	•

• first choice
○ alternate choice

P	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
K	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
N	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
H	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



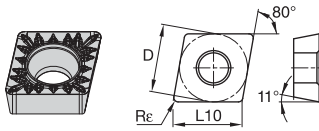
- first choice
- alternate choice

[illegible]

ISO catalogue number	D	L10	R _ε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KT810
CPMT060202FW	6,35	6,45	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	-
CPMT060204FW	6,35	6,45	0,4	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	●	-
CPMT060208FW	6,35	6,45	0,8	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	●	-	-	●	-
CPMT09T304FW	9,53	9,67	0,4	-	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	●	-	-	●	-
CPMT09T308FW	9,53	9,67	0,8	-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	●	-	-	●	-

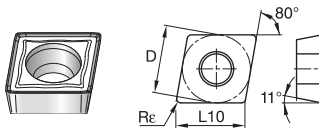
[illegible][illegible]

						
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37



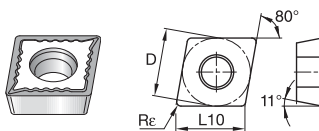
■ CPMT-MP

ISO catalogue number	D	L10	R _{0.05}
CPMT060208MP	6,35	6,45	0,8
CPMT09T308MP	9,53	9,67	0,8



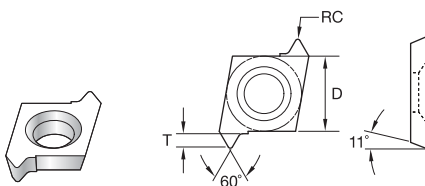
■ CPMT-MW

ISO catalogue number	D	L10	R8
CPMT09T304MW	9,53	9,67	0,4
CPMT09T308MW	9,53	9,67	0,8



■ CPMT-UF

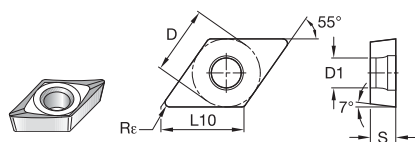
ISO catalogue number	D	L10	R6
CPMT060204UF	6,35	6,45	0,4
CPMT09T304UF	9,53	9,67	0,4



■ CPT

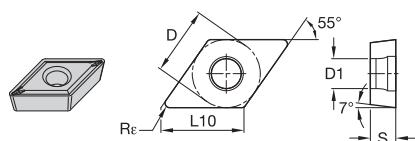
ISO catalogue number	D	T	RC
CPT190013L	6,35	1,65	0,1
CPT190013R	6,35	1,65	0,1

[illegible]

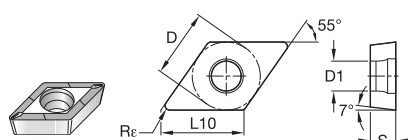
beyond DRIVE™

 ● first choice
 ○ alternate choice

■ DCGT-HP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DCGT070202HP	6,35	7,75	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	●	-	-
DCGT070204HP	6,35	7,75	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	●	-	-
DCGT070208HP	6,35	7,75	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	●	-	-
DCGT11T302HP	9,53	11,63	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	●	-	-
DCGT11T304HP	9,53	11,63	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	●	-	-
DCGT11T308HP	9,53	11,63	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	●	●	●	-	-


■ DCGT-LF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DCGT070201LF	6,35	7,75	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DCGT11T301LF	9,53	11,63	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DCGT150408LF	12,70	15,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-

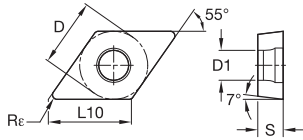
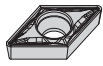

■ DCMT-11

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DCMT07020211	6,35	7,75	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-
DCMT07020411	6,35	7,75	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-
DCMT11T30411	9,53	11,63	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-
DCMT11T30811	9,53	11,63	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37	

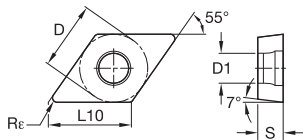
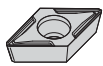
beyond **DRIVE™**



- first choice
- alternate choice

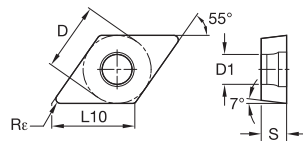
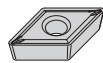
■ **DCMT-FP**

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DCMT070202FP	6,35	7,75	0,2	-	-	●	-	-	-	-	-	-	-	-	-	●	-	-	-	●	●	-	-	●
DCMT070204FP	6,35	7,75	0,4	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	●	-	-	●
DCMT070208FP	6,35	7,75	0,8	-	-	●	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-	-	-
DCMT11T302FP	9,53	11,63	0,2	-	●	●	-	-	-	-	-	-	●	-	-	-	-	-	-	●	●	-	-	●
DCMT11T304FP	9,53	11,63	0,4	-	●	●	-	-	-	-	-	-	●	-	-	-	-	-	-	●	●	-	-	●
DCMT11T308FP	9,53	11,63	0,8	-	●	-	-	-	-	●	-	-	●	-	-	-	-	-	-	●	●	-	-	●
DCMT11T312FP	9,53	11,63	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DCMT150404FP	12,70	15,50	0,4	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DCMT150408FP	12,70	15,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-



■ **DCMT-FW**

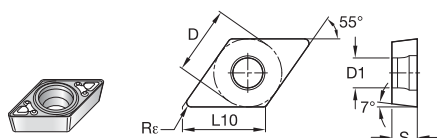
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DCMT11T304FW	9,53	11,63	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
DCMT11T308FW	9,53	11,63	0,8	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	-	●	-



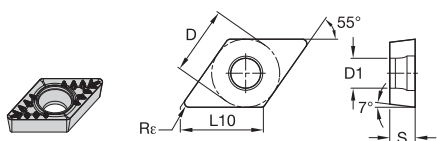
■ **DCMT-LF**

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
DCMT070202LF	6,35	7,75	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-
DCMT070204LF	6,35	7,75	0,4	-	●	●	-	-	-	●	●	●	●	-	-	-	●	-	-	-	-	-	●	-
DCMT11T302LF	9,53	11,63	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
DCMT11T304LF	9,53	11,63	0,4	-	●	●	-	-	-	●	●	●	●	●	-	-	●	-	-	-	-	-	●	-
DCMT11T308LF	9,53	11,63	0,8	-	●	●	-	-	●	●	●	●	●	●	-	-	●	-	-	●	-	-	●	-
DCMT11T312LF	9,53	11,63	1,2	-	●	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-
DCMT150404LF	12,70	15,50	0,4	-	-	●	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-
DCMT150408LF	12,70	15,50	0,8	-	-	●	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-

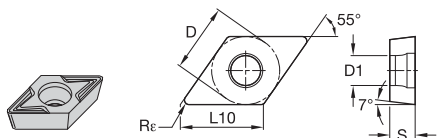
beyond DRIVE™

 ● first choice
 ○ alternate choice

■ DCMT-MF

ISO catalogue number	D	L10	Re
DCMT11T304MF	9,53	11,63	0,4
DCMT11T308MF	9,53	11,63	0,8
DCMT11T312MF	9,53	11,63	1,2


■ DCMT-MP

ISO catalogue number	D	L10	Re
DCMT11T304MP	9,53	11,63	0,4
DCMT11T308MP	9,53	11,63	0,8
DCMT11T312MP	9,53	11,63	1,2

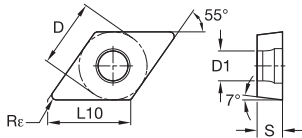

■ DCMT-MW

ISO catalogue number	D	L10	Re
DCMT11T304MW	9,52	11,63	0,2
DCMT11T308MW	9,53	11,63	0,8

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* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

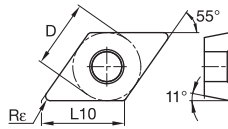
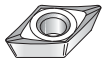
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- first choice
- alternate choice

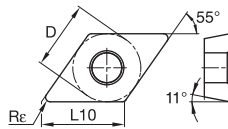
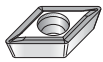
■ DCMT-UF

ISO catalogue number	D	L10	R _z
DCMT11T302UF	9,53	11,63	0,2
DCMT11T304UF	9,53	11,63	0,4
DCMT11T308UF	9,53	11,63	0,8



■ DPGT-HP

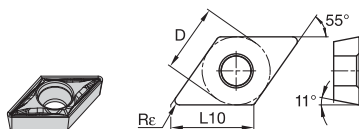
ISO catalogue number	D	L10	R
DPGT070202HP	6,35	7,75	0,2
DPGT070204HP	6,35	7,75	0,4
DPGT070208HP	6,35	7,75	0,8
DPGT11T304HP	9,53	11,63	0,4
DPGT11T308HP	9,53	11,63	0,8



■ DPGT-LF

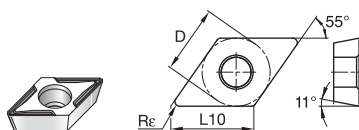
ISO catalogue number	D	L10	Re
DPGT070201LF	6,35	7,75	0,1
DPGT070202LF	6,35	7,75	0,2
DPGT070204LF	6,35	7,75	0,4
DPGT11T301LF	9,53	11,63	0,1
DPGT11T302LF	9,53	11,63	0,2
DPGT11T304LF	9,53	11,63	0,4
DPGT11T308LF	9,53	11,63	0,8

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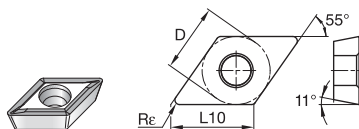
■ DPMT-FP

ISO catalogue number	D	L10	R _{0.05}
DPMT070202FP	6,35	7,75	0,2
DPMT070204FP	6,35	7,75	0,4
DPMT070208FP	6,35	7,75	0,8
DPMT11T302FP	9,53	11,63	0,2
DPMT11T304FP	9,53	11,63	0,4
DPMT11T308FP	9,53	11,63	0,8



■ DPMT-FW

ISO catalogue number	D	L10	R6
DPMT070208FW	6,35	7,75	0,8
DPMT11T308FW	9,53	11,63	0,8



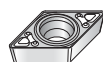
■ DPMT-LF

ISO catalogue number	D	L10	R
DPMT070204LF	6,35	7,75	0,4
DPMT11T304LF	9,53	11,63	0,4
DPMT11T308LF	9,53	11,63	0,8

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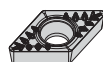
* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.





- first choice
- alternate choice

■ DPMT-MF

[illegible]

■ DPMT-MP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCS410	KT315	KT310
DPMT11T308MP	9,53	11,63	0,8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—



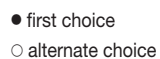
■ DPMT-UF

[illegible]

GPCD

ISO catalogue number	D	L10	R _ε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCS410	KT315	KT10
GPCD050102	3,97	5,61	0,2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—
GPCD050104	3,97	5,61	0,4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—

[illegible]



ISO catalogue number	D	L10	R _e
RCGH120400	12,70	—	—



ISO catalogue number	D	L10	R _{0.05}
RCGH120400MP	12,70	—	—

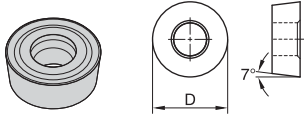


ISO catalogue number	D	L10	R
RCGT0803M0HP	8,00	—	—
RCGT10T3M0HP	10,00	—	—
RCGT1204M0HP	12,00	—	—

[illegible]

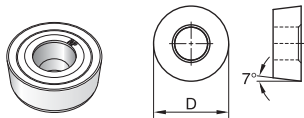
* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.



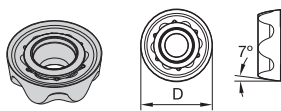


■ RCGT-MS

ISO catalogue number	D	L10	R _ε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCU410	KT315	KT710
RCGT0803M0MS	8,00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—
RCGX1003M0MS	10,00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—
RCGT1204M0MS	12,00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—
RCGT1606M0MS	16,00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—



■ RCGT-RP

[illegible]

■ RCGX-LF

ISO catalogue number	D	L10	R _ε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K13	K68	KCS10	KCU10	KCU25	KCU410	KT315	KTP10
RCGX190600ELF	19,05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	●	—	—	—	—

[illegible]

- first choice
- alternate choice



- first choice
- alternate choice

[illegible]

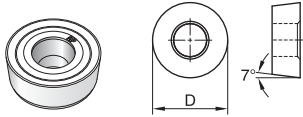
ISO catalogue number	D	L10	R _ε																					
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RCMT0602M0	6,00	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	—	—	—	—	—	—	—	—
RCMT060200	6,35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—
RCMT0803M0	8,00	—	—	—	—	—	●	—	—	—	—	●	—	—	—	—	—	—	—	—	—	—	—	—
RCMT09T300	9,53	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	—	—	—	●	—	—	—	—
RCMT10T3M0	10,00	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—	—	—	—	—	—	—	—	—
RCMT1204M0	12,00	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—	—	—	—	●	—	—	—	—
RCMT120400	12,70	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	—	—	—	—	—	—	—	—
RCMT1605M0	16,00	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	—	—	—	●	—	—	—	—
RCMT2006M0	20,00	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	—	—	—	●	—	—	—	—



ISO catalogue number	D	L10	R _e	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCS410	KT315	KTP10
RCMT0803M0MP	8,00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	—
RCMT10T3M0MP	10,00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	—
RCMT1204M0MP	12,00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	—
RCMT1606M0MP	16,00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	—	—	—

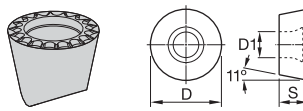
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C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37



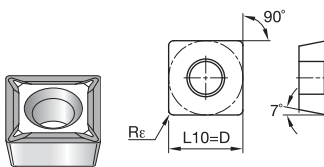
■ RCMX-RP

ISO catalogue number	D	L10	R8
RCMX1003M0RP	10,00	—	—



■ **RPGT-MP**

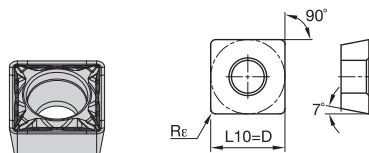
ISO catalogue number	D	L10	R8
RPGT060400MP	6,35	—	—
RPGT090700MP	9,53	—	—
RPGT120700MP	12,70	—	—



■ SCMT-11

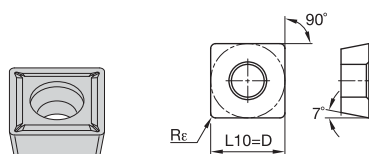
ISO catalogue number	D	L10	R8
SCMT09T30411	9,53	9,53	0,4
SCMT09T30811	9,53	9,53	0,8
SCMT12040411	12,70	12,70	0,4
SCMT12040811	12,70	12,70	0,8

[illegible]

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■ SCMT-FP

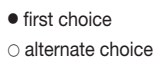
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SCMT09T304FP	9,53	9,53	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
SCMT09T308FP	9,53	9,53	0,8	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	●
SCMT120404FP	12,70	12,70	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
SCMT120408FP	12,70	12,70	0,8	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
SCMT120412FP	12,70	12,70	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-


■ SCMT-LF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SCMT09T304LF	9,53	9,53	0,4	-	●	●	-	-	●	●	●	●	●	-	-	-	-	-	-	-	-	-	●	-
SCMT09T308LF	9,53	9,53	0,8	-	●	●	●	-	●	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-
SCMT120404LF	12,70	12,70	0,4	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-
SCMT120408LF	12,70	12,70	0,8	-	●	●	-	-	●	●	-	●	●	-	-	-	-	-	-	-	-	-	-	-
SCMT120412LF	12,70	12,70	1,2	-	●	●	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37	



ISO catalogue number	D	L10	Rε
SCMT09T312MF	9,52	9,52	1,2
SCMT09T308MF	9,53	9,53	0,8
SCMT120408MF	12,70	12,70	0,8
SCMT120412MF	12,70	12,70	1,2

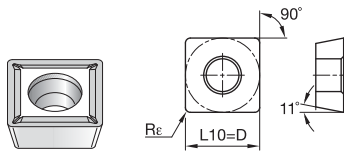


ISO catalogue number	D	L10	Rε
SCMT09T304MP	9,53	9,53	0,4
SCMT09T308MP	9,53	9,53	0,8
SCMT120404MP	12,70	12,70	0,4
SCMT120408MP	12,70	12,70	0,8



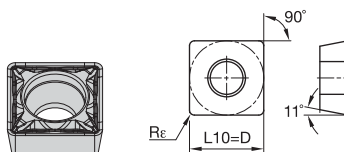
ISO catalogue number	D	L10	Rε
SCMW09T304	9,53	9,53	0,4
SCMW09T308	9,53	9,53	0,8
SCMW120408	12,70	12,70	0,8
SCMW120412	12,70	12,70	1,2

[illegible]

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■ SPGT-LF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SPGT09T304LF	9,53	9,53	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
SPGT09T308LF	9,53	9,53	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	●	-	-

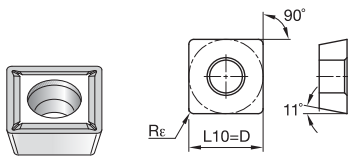

■ SPMT-FP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SPMT09T304FP	9,53	9,53	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
SPMT09T308FP	9,53	9,53	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	●

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37

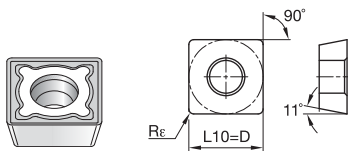
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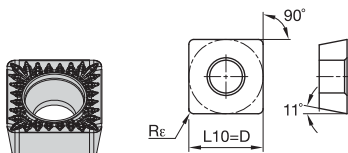
■ SPMT-LF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SPMT09T304LF	9,53	9,53	0,4	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-
SPMT09T308LF	9,53	9,53	0,8	-	●	●	-	-	●	●	●	-	-	-	-	-	-	●	-	-	-	-	-	-



■ SPMT-MF

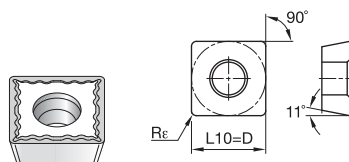
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SPMT09T308MF	9,53	9,53	0,8	-	-	●	-	-	●	●	●	-	●	-	-	-	-	-	-	-	-	-	-	-
SPMT120408MF	12,70	12,70	0,8	-	-	-	●	-	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-



■ SPMT-MP

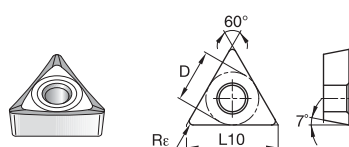
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SPMT09T308MP	9,53	9,53	0,8	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	-	-
SPMT120408MP	12,70	12,70	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-

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

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■ SPMT-UF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
SPMT09T304UF	9,53	9,53	0,4	—	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

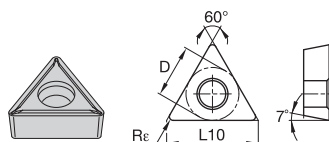

■ TCGT-HP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TCGT110202HP	6,35	11,00	0,2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	●	—	—
TCGT110204HP	6,35	11,00	0,4	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	●	●	●	—	—
TCGT110208HP	6,35	11,00	0,8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—
TCGT16T302HP	9,53	16,50	0,2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	—	—
TCGT16T304HP	9,53	16,50	0,4	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	●	●	●	—	—
TCGT16T308HP	9,53	16,50	0,8	—	—	—	—	—	—	—	—	—	—	—	—	—	●	—	—	●	●	●	—	—

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2–C71	C72–C109	C110–C115	C116–C147	B10–B23	B24–B31	B32–B37

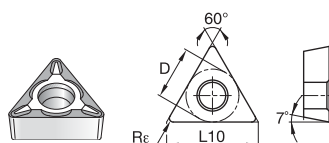
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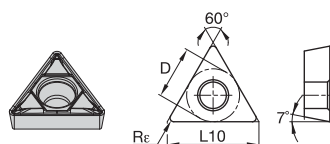
TCGT-LF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TCGT110201LF	6,35	11,00	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TCGT110204LF	6,35	11,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TCGT16T301LF	9,53	16,50	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TCGT16T302LF	9,53	16,50	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TCGT16T304LF	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TCGT16T308LF	9,53	16,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-

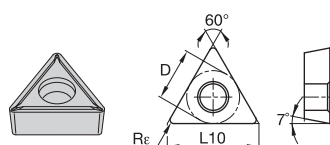


TCMT-11

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TCMT11020411	6,35	11,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
TCMT16T30411	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
TCMT16T30811	9,53	16,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-

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TCMT-FP

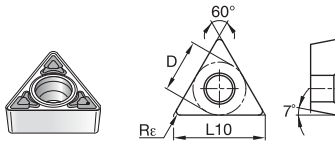
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TCMT090204FP	5,56	9,63	0,4	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TCMT090208FP	5,56	9,63	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
TCMT110202FP	6,35	11,00	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	•
TCMT110204FP	6,35	11,00	0,4	-	-	-	-	-	-	•	-	-	-	-	-	•	-	-	-	•	•	-	-	•
TCMT110304FP	6,35	11,00	0,4	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
TCMT110208FP	6,35	11,00	0,8	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	•	-	-	•
TCMT110308FP	6,35	11,00	0,8	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
TCMT110312FP	6,35	11,00	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
TCMT16T302FP	9,53	16,50	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	•
TCMT16T304FP	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	•
TCMT16T308FP	9,53	16,50	0,8	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	•	-	-	•
TCMT16T312FP	9,53	16,50	1,2	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
TCMT220408FP	12,70	22,00	0,8	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	•	•	-	-	-


TCMT-LF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TCMT110204LF	6,35	11,00	0,4	-	•	•	-	-	•	•	•	•	•	•	•	-	-	-	•	-	-	-	•	-
TCMT110208LF	6,35	11,00	0,8	-	-	•	-	-	•	•	•	-	•	-	-	-	-	-	-	-	-	-	•	-
TCMT16T304LF	9,53	16,50	0,4	-	•	•	-	-	-	•	-	•	•	•	-	-	-	-	-	-	-	-	•	-
TCMT16T308LF	9,53	16,50	0,8	-	•	•	-	-	•	•	-	•	-	-	-	-	-	-	-	-	-	-	•	-
TCMT16T312LF	9,53	16,50	1,2	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TCMT220408LF	12,70	22,00	0,8	-	•	•	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-

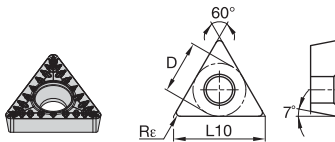
* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37	



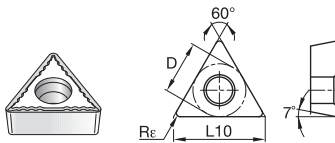
- first choice
- alternate choice

■ TCMT-MF

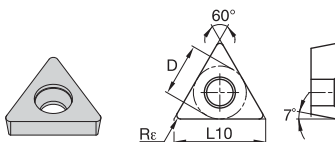
[illegible]

■ TCMT-MP

ISO catalogue number	D	L10	R _ε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK15B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCU5410	KT315	KTP10
TCMT110208MP	6,35	11,00	0,8	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-	-	-
TCMT16T304MP	9,53	16,50	0,4	-	-	-	-	-	-	-	●	-	●	-	-	-	-	-	-	●	-	-	-	-
TCMT16T308MP	9,53	16,50	0,8	-	-	-	-	-	-	-	●	-	●	-	-	-	-	-	-	●	-	-	-	-

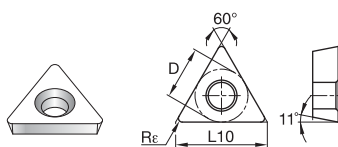


■ TCMT-UF

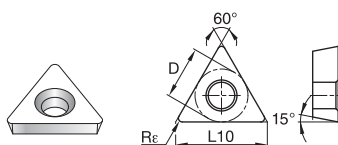
[illegible]

TCMW

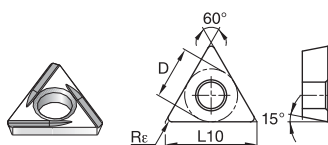
[illegible][illegible]

beyond DRIVE™

TPCB

ISO catalogue number	D	L10	Rε
TPCB160304	9,53	16,50	0,4
TD6P	9,53	16,50	0,8
TPCB160308	9,53	16,50	0,8


TDHB

ISO catalogue number	D	L10	Rε
TDHB07T12S0	4,06	7,04	0,1
TDHB07T1202	4,06	7,04	0,2
TDHB07T1204	4,06	7,04	0,4
TDHB07T1208	4,06	7,04	0,8


TDHH

ISO catalogue number	D	L10	Rε
TDHH07T1202L	4,06	7,04	0,2
TDHH07T1202R	4,06	7,04	0,2
TDHH07T1204L	4,06	7,04	0,4
TDHH07T1204R	4,06	7,04	0,4

- first choice
- alternate choice

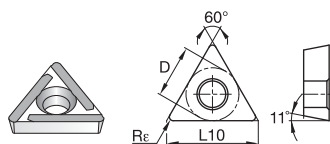
|--|

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

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

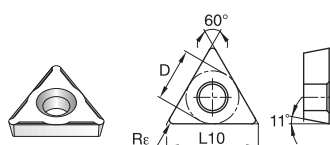
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37	

beyond DRIVE™



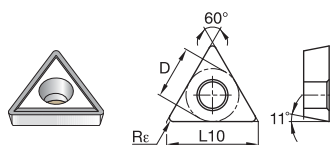
TPCG

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TPCG110204L	6,35	11,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-



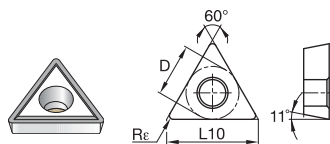
TPCH

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TPCH110202	6,50	11,26	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-



TPGH

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TPGH160304	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
TPGH160308	9,53	16,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-

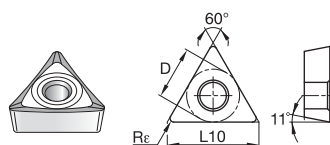


TPGM

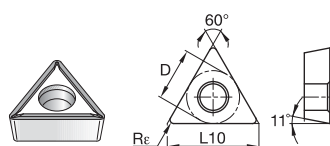
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TPGT110204K	6,35	11,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-
TPGT110208K	6,35	11,00	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPGH16T304	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-

• first choice
○ alternate choice

P	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
M	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
K	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
N	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
H	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

beyond DRIVE™

TPGT-HP

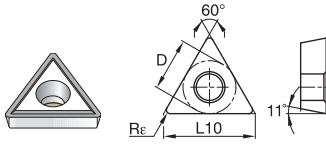
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TPGT110202HP	6,35	11,00	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
TPGT110204HP	6,35	11,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	-	-
TPGT110208HP	6,35	11,00	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	-	-
TPGT16T302HP	9,53	16,50	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	-
TPGT16T304HP	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	-	-
TPGT16T308HP	9,53	16,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	-	-


TPGT-LF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
TPGT090204LF	5,56	9,62	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-
TPGT090202LF	5,56	9,63	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
TPGT110201LF	6,35	11,00	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
TPGT110202LF	6,35	11,00	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
TPGT110204LF	6,35	11,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-
TPGT110208LF	6,35	11,00	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
TPGT16T304LF	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
TPGT16T308LF	9,53	16,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.

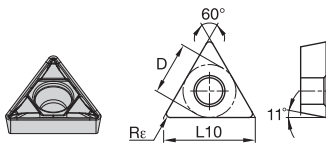
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37



- first choice
- alternate choice

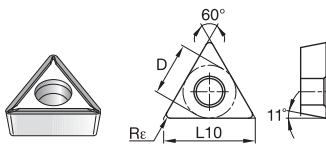
TPHB

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCP05B	KCK15B	KCK20B	KCK15B	KCK25B	KCK35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KCU5410	KT315	KTP10
TPHB110202	6,35	11,00	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TPHB160304	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-



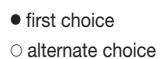
■ TPMT-FP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTPI0
TPMT090204FP	5,56	9,63	0,4	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TPMT090208FP	5,56	9,63	0,8	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	●
TPMT110202FP	6,35	11,00	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
TPMT110204FP	6,35	11,00	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
TPMT110304FP	6,35	11,00	0,4	-	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
TPMT110208FP	6,35	11,00	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	●
TPMT110308FP	6,35	11,00	0,8	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TPMT16T304FP	9,53	16,50	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	-
TPMT16T308FP	9,53	16,50	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-	●
TPMT16T312FP	9,53	16,50	1,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-
TPMT220408FP	12,70	22,00	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-



■ TPMT-LF

[illegible]



ISO catalogue number	D	L10	R _{0.05}
TPMT110208MF	6,35	11,00	0,8
TPMT16T308MF	9,53	16,50	0,8
TPMT16T312MF	9,53	16,50	1,2



ISO catalogue number	D	L10	R _{0.05}
TPMT110208MP	6,35	11,00	0,8
TPMT16T308MP	9,53	16,50	0,8
TPMT16T312MP	9,53	16,50	1,2

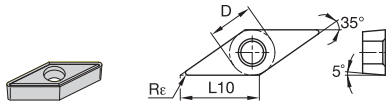


ISO catalogue number	D	L10	R _e
VBGT110302HP	6,35	11,07	0,2
VBGT110304HP	6,35	11,07	0,4
VBGT160404HP	9,53	16,61	0,4
VBGT160408HP	9,53	16,61	0,8

[illegible]

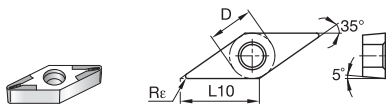
						
C2-C71	C72-C109	C110-C115	C116-C147	B10-B23	B24-B31	B32-B37

beyond DRIVE™



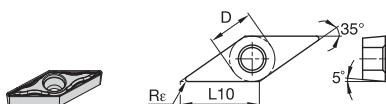
VBGT-LF

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
VBGT110301LF	6,35	11,07	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
VBGT110302LF	6,35	11,07	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-	-	-
VBGT110304LF	6,35	11,07	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-	-	-	-
VBGT160401LF	9,53	16,61	0,1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
VBGT160402LF	9,53	16,61	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-	•	-	-
VBGT160404LF	9,53	16,61	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-



VBMT-11

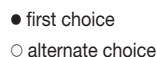
ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
VBMT11030211	6,35	11,07	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
VBMT11030411	6,35	11,07	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
VBMT16040411	9,53	16,61	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
VBMT16040811	9,53	16,61	0,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-



VBMT-FP

ISO catalogue number	D	L10	Rε	KCP05B	KCP10B	KCP25B	KCP30B	KCP40B	KCK05B	KCK15B	KCK20B	KCM15B	KCM25B	KCM35B	KCPK05	KU10	K313	K68	KCS10	KCU10	KCU25	KC5410	KT315	KTP10
VBMT110302FP	6,35	11,07	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-
VBMT110304FP	6,35	11,07	0,4	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	•	-	-	•
VBMT110308FP	6,35	11,07	0,8	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	•	-	-	-
VBMT160402FP	9,53	16,61	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	-	-	•
VBMT160404FP	9,53	16,61	0,4	•	•	•	-	-	-	•	-	-	-	-	-	-	-	-	-	•	•	-	-	•
VBMT160408FP	9,53	16,61	0,8	•	•	•	-	-	-	•	-	-	-	-	-	-	-	-	-	•	•	-	-	•
VBMT160412FP	9,53	16,61	1,2	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

• first choice
○ alternate choice



ISO catalogue number	D	L10	R _{0.05}
VBMT110302LF	6,35	11,07	0,2
VBMT110304LF	6,35	11,07	0,4
VBMT110308LF	6,35	11,07	0,8
VBMT160402LF	9,53	16,61	0,2
VBMT160402LF	9,53	16,61	0,2
VBMT160404LF	9,53	16,61	0,4
VBMT160408LF	9,53	16,61	0,8
VBMT160412LF	9,53	16,61	1,2



ISO catalogue number	D	L10	R _e
VBMT160404MP	9,53	16,61	0,4
VBMT160408MP	9,53	16,61	0,8

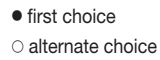
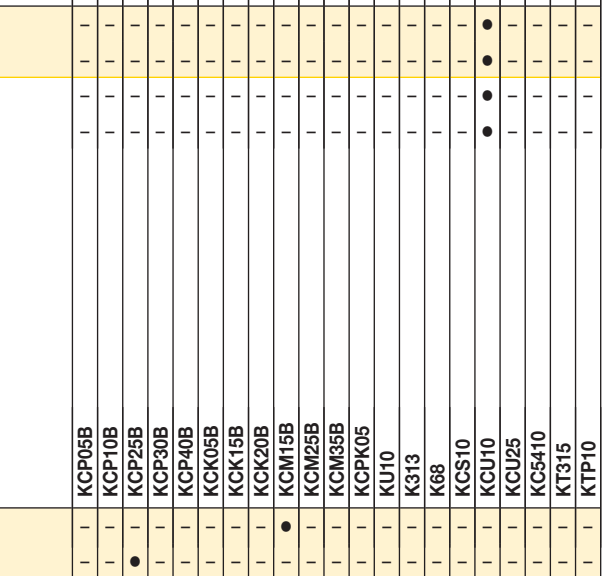
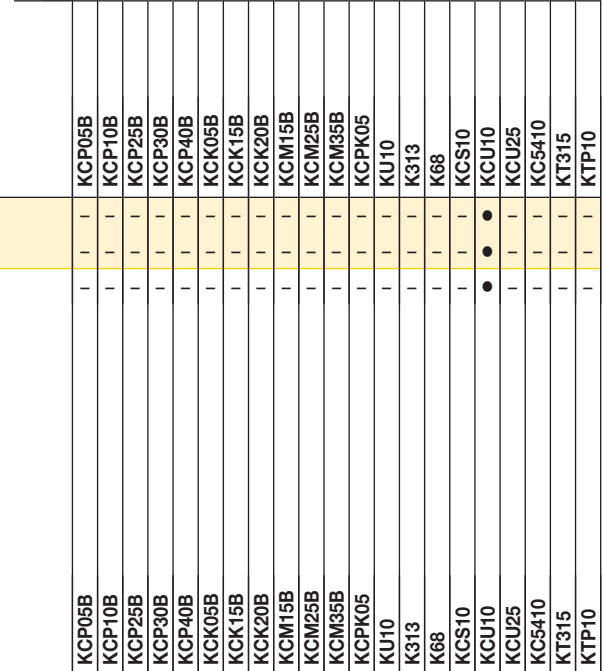


ISO catalogue number	D	L10	R8
WCMT040204FP	6,35	4,34	0,4
WCMT06T308FP	9,53	6,52	0,8

[illegible]

* For more information, please see the Innovations Master Catalogue Cutting Tools 2013.



[illegible]

-MR Geometry

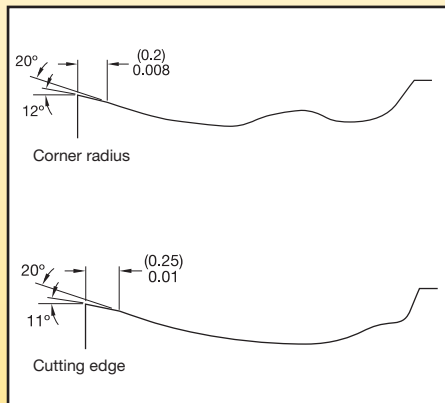
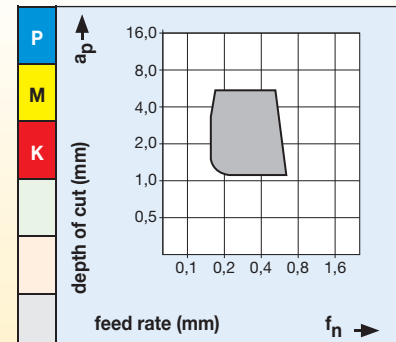
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

MR



Geometry for medium to rough cutting with smooth chip forming and improved coolant flow for increased tool life. Positive geometry reduces cutting forces and improves depth-of-cut notching resistance.

MR (11° land) is more positive than the -RP (5° land) and -MN (0° land), providing a freer cutting action (lower cutting forces) and potentially improved tool life in some applications. It is less positive than the -UP (15° land), so the -MR bridges the gap between the -RP and -UP.



Feed 0,15–0,50mm (.006–.02 IPR)
DOC 1,50–6,35mm (.06–0.25")

- MR:** Medium Roughing
08: Corner radius (ISO) 0,8mm
▼: Application Symbol — Rough machining
2: Corner radius (ANSI) 2/64 (0.03125")

Order No.	Catalogue No.	Page(s)	Order No.	Catalogue No.	Page(s)	Order No.	Catalogue No.	Page(s)	Order No.	Catalogue No.	Page(s)
1122397	CPGT060204KK313	109	1162189	CCMT09T302LFK313	105	1183457	CPGN120304K68	99	1599082	WNMG080408MP1KC5010	95
1123666	TCMT110204LFK68	129	1162190	CCMT09T304LFK313	105	1183458	CPGN120308K68	99	1600571	CNMG120404MP1KC5010	48
1124195	SPMT09T308LFK68	126	1162191	CCMT09T308LFK313	105	1183542	PGPN120300K313	100	1600601	WNMG160408MP1KC5010	88
1124300	TNMA220408K68	77	1162192	CDHBSA0200K313	108	1183544	RCGT120700K313	99	1601557	CNMG120404FFKC5010	44
1125440	TNMA160408K68	77	1162194	CPGT09T302HPK313	109	1198178	SCMT09T30811KT315	122	1601631	CNMG120404FFKT315	44
1132990	DCMT070204LFK313	114	1162195	CPGT09T304HPK313	109	1198179	DCMT07020211KT315	113	1601632	CNMG120408FFKC5010	44
1134285	SNMA120408K68	68	1162199	CPMT060204LFK313	111	1198180	VBMT11030211KT315	136	1601636	CNMG120408FFKT315	44
1152199	SPGN120308K68	101	1162200	CPMT060208LFK313	111	1198181	SCMT09T30411KT315	122	1601637	CNMG150608FFKC5010	58
1156428	SNMA190612K68	68	1162204	DCGT070202HPK313	113	1198182	SCMT12040411KT315	122	1601651	CNMG150608FFKT315	58
1159653	TNMG220412PKC730	81	1162205	DCGT070204HPK313	113	1198183	VBMT16040411KT315	136	1601652	WNMG080408FFKC5010	93
1159891	SNMG190612K1	68	1162206	DCGT11T302HPK313	113	1198184	VBMT16040811KT315	136	1601656	TNMG160408FFKC5010	78
1159961	CNMG120408K313	43	1162207	DCGT11T304HPK313	113	1198185	TCMT11020411KT315	128	1601886	TNMG160408FFKT315	78
1159964	CNMG120408PK313	49	1162208	DCGT11T308HPK313	113	1198186	TCMT16T30411KT315	128	1601888	WNMG160404FFKC5010	87
1159970	CNMG150408PK313	62	1162209	DCMT070202LFK313	114	1198187	CCMT06020411KT315	104	1601890	WNMG160408FFKC5010	87
1159971	SNMG120408K313	68	1162211	DCMT11T304LFK313	114	1198188	CCMT09T30411KT315	104	1601953	CNMG160408FFKT315	87
1159980	CNMG160408PK313	89	1162212	DCMT11T308LFK313	114	1198189	CCMT09T30811KT315	104	1602247	WNMG160404FFKT315	87
1160004	RNMA120400K68	66	1162215	DPGT070204HPK313	116	1198191	DCMT07020411KT315	113	1602249	WNMG060404FFKT315	93
1160005	RNMA150600K68	66	1162216	DPGT11T304HPK313	116	1198192	DCMT11T30411KT315	113	1602304	WNMG060408FFKT315	93
1160013	CNMA120408K68	43	1162223	TPMT110204LFK313	134	1198637	DNMG11040833KT315	57	1602579	CNMG160404FFKT315	78
1160018	CNMG120404BK68	43	1162225	VBGT110304LFK313	136	1198645	DNMG11040433KT315	57	1602604	TNMG160404FFKC5010	78
1160019	CNMG120408K68	43	1162226	VBGT160402LFK313	136	1198686	CNMG12040833KT315	44	1604705	DNMG150408FFKT315	58
1160020	CNMG120412K68	43	1162228	VBGT160404HPK313	135	1198689	DNMG15060433KT315	57	1604706	DNMG150408FFKC5010	58
1160025	CNMG190612K68	43	1162229	VBGT160408HPK313	135	1198693	DNMG15060833KT315	57	1605207	CNMG120404FFKT315	45
1160027	CNMG150408BK68	57	1162230	VBMT110304LFK313	137	1203260	TPUN160308CG4	103	1605242	CNMG120408FFKT315	45
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1160040	SNMG120416BK68	68	1162234	VBMT160404LFK313	137	1310704	DPGT070204LFK5010	116	1605279	CNMG150408FFKT315	58
1160042	SNMG190612K68	68	1162235	VBMT160408LFK313	137	1310705	DPGT11T302LFK5010	116	1605334	CNMG150608FFKT315	58
1160060	TNMG220412K68	77	1162241	RCGT0803MOHPK313	119	1310707	DPGT11T301LFK5010	116	1606360	SNMG120408FFKT315	69
1160061	TNMG220416K68	77	1162242	RCGT10T3MOHPK313	119	1310718	CCGT060202LFK5010	104	1606485	TNMG160408FFKT315	78
1160068	WNMG160408K68	87	1162243	RCGT1204MOHPK313	119	1310720	DPGT11T304LFK5010	116	1606718	WNMG080408FFKT315	93
1160069	WNMG160412K68	87	1162245	RCMT09T300K313	121	1310721	CCGT060201LFK5010	104	1608497	DNMG110404FFKC5010	58
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1160274	SNMG250924KC850	68	1162255	TCGT16T304HPK313	127	1310739	CCGT09T304LFK5010	104	1610983	DNMG110408FFKT315	58
1161093	VNMG160408LFK313	86	1162256	TCGT16T308HPK313	127	1310746	CCGT120402HPK5010	103	1610985	DNMG150604FFKC5010	58
1161095	CNMP120404K313	54	1162268	CCMT09T304LFK68	105	1310793	TPGT110202HPK5010	133	1610988	CNMG150604FFKT315	58
1161096	CNMP120408K313	54	1162272	CPMT060204LFK68	111	1310800	TPGT16T304HPK5010	133	1611086	DNMG110412FNKT315	58
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1161105	VNMP160404K313	86	1162288	VBGT110302LFK68	136	1310805	TPGT16T308LFK5010	133	1611325	DNMG150612FNKT315	58
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1161118	DNMP150404K313	56	1162735	TPUN160308K68	103	1310944	DPGT070202HPK5010	116	1612950	DNMG150404FFKT315	58
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1161121	DNMP150604K313	56	1162738	TPUN220412K68	103	1310947	DPGT070202LFK5010	116	1620373	TPMT110204LFK315	134
1161124	VNMP160404K313	90	1163005	TPGT110208K313	132	1522848	TPGT090204LFK5010	133	1620374	CPMT060208LFK315	111
1161125	VNMP160408K313	90	1163009	CPGH09T304K313	109	1522850	TPGT16T302HPK5010	133	1623193	CCGT060208HPK5010	103
1161127	VNMP220408K313	86	1163010	CPGH09T308K313	109	1522905	CPGT060202HPK5010	109	1623194	CCGT09T308HPK5010	103
1161146	CNMP120404K68	131	1163033	TDGPK68	131	1522907	CPGT060204HPK5010	109	1623200	DCGT070202HPK5010	113
1161147	CNMP120408K68	132	1163049	TPGT110204KK68	132	1522943	TCGT16T302HPK5010	127	1623271	DCGT070204HPK5010	113
1161148	CNMP120412K68	54	1163051	CPGT060202KK68	109	1522946	TCGT110204LFK5010	128	1623272	TCGT110202HPK5010	127
1161155	CNMS120408K68	55	1163052	CPGT060204KK68	109	1522947	TCGT16T302LFK5010	128	1623273	TCGT110204HPK5010	127
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1161158	CNMS190612K68	55	1163055	CPGH09T304K68	109	1522949	TCGT16T308LFK5010	128	1623275	TCGT16T308HPK5010	127
1161159	DNMP150404K68	65	1163056	CPGH09T308K68	109	1523196	TCGT110202HPK5010	127	1623278	VBGT160404HPK5010	135
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1161161	DNMP150412K68	65	1164694	SPUN120304K68	101	1527051	SCMT12040811KT315	122	1624156	CNMG090304FFKC5010	44
1161168	DNMS150408K68	65	1168017	RNMG190600K313	66	1527992	DCMT11T30811KT315	113	1624223	CNMG090304FFKC5010	68
1161170	SNMP120408K68	75	1162696	SPGN120412KC725M	101	1527995	TCMT16T30811KT315	128	1624227	SNMG090308FFKC5010	68
1161172	SNMP190612K68	75	1162851	SPGN090308K313	101	1560389	CCGT060204HPK5010	103	1624229	SNMG090308FFKT315	68
1161173	SNMS120408K68	76	1162853	SPGN120308K313	101	1560390	CCGT09T302HPK5010	103	1624230	TNMG110304FFKC5010	78
1161175	SNMS190612K68	76	1162856	SPGN190412K313	101	1560600	CCGT060202HPK5010	103	1624424	CNMG090304FNKT315	45
1161182	TNMP220416K68	84	1162921	SPGN090304K68	101	1560651	CCGT09T304HPK5010	103	1624431	WNMG160404FNKT315	87
1161186	CNMP120404K68	42	1162922	SPGN090308K68	101	1560653	CCGT120404HPK5010	103	1624432	WNMG160408FFKT315	87
1161187	CNMP120408K68	42	1162923	DNMP120408K68	101	1560655	CCGT120408HPK5010	103	1713307	RCGT0803MOHPK5010	119
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1161192	TNMS160408K68	85	1162926	SPGN120312K68	101	1560693	CPGT09T302HPK5010	109	1713356	CPGT09T308LFK5010	110
1161194	TNMS220408K68	85	1162929	SPGN190408K68	101	1560694	CPGT09T304HPK5010	109	1713359	VBGT110301LFK5010	136
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1161200	VNMP160408K68	90	1163204	TPGN110308K313	102	1560699	DCGT11T302HPK5010	113	1728230	VPGP443K5010	86
1161201	VNMP										

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1785479	..CGGT09T308HPKC5010	103	1834295	..SNMG120412FWKT315	69	1870044	..CNGG120408LFC5010	42	1882914	..DNMG110404FNKC9110	58
1785480	..CPGT09T308HPKC5010	109	1845218	..CCMT120408LFC5010	105	1870069	..CNGG120412LFC5010	42	1882915	..DNMG110408FNKC9110	58
1785481	..TCGT110208HPKC5010	127	1854201	..CPMT050204LFC5010	111	1870070	..CNGG160608LFC5010	42	1882916	..DNMG110412FNKC9110	58
1785482	..TPGT110208HPKC5010	133	1859604	..VBMT160404LFT315	137	1870072	..DNGG150402LFC5010	56	1882917	..DNMG110404FNKC9110	58
1785715	..CNGP120401KCS410	42	1864643	..RNMG090300RNMK9125	66	1870113	..DNGG150404LFC5010	56	1882918	..DNMG110408FNKC9110	58
1785716	..CNGP120402KCS410	42	1864645	..RNMG150600RNMK9125	66	1870114	..DNGG150408LFC5010	56	1882919	..DNMG110412FNKC9110	58
1785717	..CNGP120404KCS410	42	1864696	..TNMG270612RNMK9110	82	1870132	..CNMG190624RNMK9125	50	1882920	..DNMG110604FNKC9110	58
1785718	..CNGP120408KCS410	42	1864698	..TNMG330924RNMK9110	82	1870153	..DNMG150408RNMK9125	62	1882921	..DNMG110608RNMK9110	58
1785719	..CNGP120412KCS410	42	1864699	..TNMG270608RNMK9125	82	1870158	..DNMG150616RNMK9125	62	1882926	..SNMG120408RNMK9110	69
1785733	..DNGP150404KCS410	56	1864701	..TNMG270616RNMK9125	82	1870159	..SNMG120408RNMK9125	72	1882927	..SNMG120412FNKC9110	69
1785734	..DNGP150408KCS410	56	1864713	..VNMG220408RNMK9110	89	1870174	..SNMG150616RNMK9125	72	1882931	..TNMG160404FNKC9110	78
1785735	..DNGP150604KCS410	56	1865016	..CCMT120412LFC9125	105	1870323	..VBMT160408LFT315	137	1882932	..TNMG160408RNMK9110	78
1785740	..TNMP160404KCS410	77	1865081	..CCMT09T312MFKC9110	106	1870324	..CPMT050204LFT315	111	1882934	..VNMG160404FNKC9110	87
1785741	..TNMP160408KCS410	77	1865082	..CCMT120408MFKC9110	106	1870326	..CPMT060204LFT315	111	1882935	..VNMG160408RNMK9110	87
1785746	..VNGP160401KCS410	86	1865174	..SPGR090308KKC5010	101	1870328	..CPMT09T302LFT315	111	1882938	..VNMG080404FNKC9110	93
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1785748	..CPGT060202HPKC5010	109	1865210	..TPGR110304KKC5010	102	1870333	..CPMT09T308LFT315	111	1882970	..CNMG120412FNKC9125	45
1785749	..CPGT060204HPKC5010	109	1865214	..TPGR160304KKC5010	102	1870335	..DPMT070204LFT315	117	1882991	..CNMG160412FNKC9125	78
1785750	..CPGT060208HPKC5010	109	1865217	..SCMT120412MFKC9125	124	1870337	..DPMT11T304LFT315	117	1909790	..CPGT060208LFC5010	110
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1785753	..DCGT070208HPKC5010	113	1865959	..RCGV060400KCS5010	99	1870342	..TPMT090204LFT315	134	1910043	..VBGT110302HPKC5010	135
1785756	..TPGT110208HPKC5010	133	1865960	..RCGV090700KCS5010	99	1870365	..TPMT110208LFT315	134	1910044	..VBGT110304HPKC5010	135
1802547	..CCMT09T304MFKC315	106	1866001	..RCMT10T30MKCS5010	121	1870366	..TPMT16T304LFT315	134	1911926	..DNMG190612RNMK9110	62
1802549	..CCMT09T308MFKC315	106	1866017	..RCMT060200KCS5010	121	1870367	..TPMT16T308LFT315	134	1911928	..DNMG190612MNMK9110	60
1802550	..CPMT09T308MFKC315	112	1866616	..CGGT09T308LFT313	104	1870385	..SNMG190616RNMK9125	72	1911944	..VNMG160404MNMK9110	68
1802551	..VWNG080408LFC5010	92	1866625	..CPGT060201LFC5010	110	1870424	..TNMG220412RNMK9125	82	1911962	..DNMG190608RNMK9110	62
1802564	..CCMT09T304MFKC5010	106	1866650	..DCGT070201LFC5010	113	1870619	..TNMG160402LFC5010	76	1915276	..VNMG080416RNMK9110	97
1802566	..CCMT09T308MFKC5010	106	1866651	..DCGT11T301LFC5010	113	1870752	..CNMG190608MNMK9125	46	1926594	..CNMG120402FNKC9110	45
1802567	..CPMT09T308MFKC5010	112	1866652	..DCGT150408LFC5010	113	1870754	..CNMG190616MNMK9125	46	1926595	..CNMG120402FNKC5010	45
1802568	..CCMT120404MFKC5010	106	1866655	..TPGT110208LFC5010	133	1870755	..CNMG190624MNMK9125	46	1926597	..SNMG250924RNMK9125	74
1802569	..CCMT120408MFKC5010	106	1866661	..TPGT110204LFC5010	133	1870759	..DNMG110412MNMK9125	60	1937503	..CDHSA7505KCS5010	108
1802813	..CCMT060202FWKT315	105	1866672	..DPGT070204LFT315	116	1870805	..SNMG120416MNMK9125	70	1937506	..CDHSA7004KCS5010	108
1802843	..CPMT060202FWKT315	111	1866674	..TPGT16T308LFT315	133	1870833	..TNMG220404MNMK9125	79	1937508	..CDHSA7004KCT315	108
1802844	..CCMT060204FWKT315	105	1866754	..VBGT160401LFC5010	136	1870857	..VNMG080416MNMK9125	94	1937511	..CDHSA7002KCT315	108
1802845	..CPMT060204FWKT315	111	1866757	..VBGT110301LFC5010	136	1870983	..CCMT060208LFC5010	105	1937513	..CDHSA7002LFC5010	108
1802846	..CCMT060208FWKT315	105	1866761	..VBGT160402LFC5010	136	1870984	..CCMT09T302LFC5010	105	1937516	..CDHSA7002LCT315	108
1802971	..CPMT060208FWKT315	111	1866762	..VBGT160404LFC5010	136	1870987	..CCMT120404LFC5010	105	1937517	..CDHSA7002RKT315	108
1802983	..CCMT09T304FWKT315	105	1866781	..DPGT070201LFC5010	116	1871015	..CPMT09T302LFC5010	111	1937518	..CDHSA7004LKC5010	108
1802984	..CPMT09T304FWKT315	111	1866793	..SPGT09T308LFC5025	125	1871019	..DCMT11T312LFC5010	114	1937528	..CDG71202RKC5010	107
1802986	..CCMT09T308FWKT315	105	1866795	..SPGT09T304LFC5010	125	1871020	..DCMT160404LFC5010	114	1937530	..GPD050102KCS025	118
1802991	..CPMT09T308FWKT315	111	1866801	..TCGT110201LFC5025	128	1871021	..DCMT150408LFC5010	114	1937532	..TDH07T1250KCS5010	131
1802992	..CCMT060202FWKC5010	105	1867060	..VBGT110304HPKC5010	135	1871033	..DPMT070204LFC5010	117	1937534	..TDH07T1250KCT315	131
1803013	..CPMT060202FWKC5010	111	1867061	..VBGT110302HPKC5010	135	1871035	..VBMT110308LFC5010	137	1937535	..TDH07T1202KCS5010	131
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1803020	..CCMT09T304FWKC5010	105	1868263	..CNMG190608RNMK9110	50	1871104	..TCMT16T312LFC5010	129	1937550	..TDH07T1204LKC5010	131
1803021	..CPMT09T304FWKC5010	111	1868264	..CNMG190612RNMK9110	50	1871105	..TCMT220408LFC5010	129	1937562	..WPGTS30101LFC5010	138
1803022	..CCMT09T308FWKC5010	105	1868265	..CNMG190616RNMK9110	50	1871134	..TPMT220408LFC5010	134	1937563	..WPGTS30102LFC5010	138
1803023	..CPMT09T308FWKC5010	111	1868270	..DNMG150608RNMK9110	62	1871163	..CCMT060204LFC5010	107	1937586	..TPCG110204LKC5010	132
1807220	..CGGT09T304LFC5010	104	1868444	..CNGP120416KCS5010	42	1871165	..CCMT09T304LFC5010	107	1937598	..TPCH110202KCS5010	132
1817572	..CNMG120404FWKC5010	45	1868456	..DNGP150608KCS5010	56	1871166	..CCMT09T308LFC5010	107	1937618	..TPCB160304KCS5010	131
1817616	..DNMG110404FWKC5010	59	1868457	..SNGP120404KCS5010	67	1871167	..CPMT060204LFC5010	112	1937621	..TPCB160308KCS5010	131
1817617	..DNMG110408FWKC5010	59	1868458	..SNGP120408KCS5010	67	1871168	..CPMT09T304LFC5010	112	1937645	..TPGH160308KCS5010	132
1819206	..CNMG120404FWKT315	45	1868606	..SNMG150612RNMK9110	72	1871169	..DCMT11T302LFC5010	116	1940914	..TNMG160412RPMK9110	82
1819207	..CNMG120408FWKT315	45	1868609	..SNMG190612RNMK9110	72	1871171	..DCMT11T304LFC5010	116	1940931	..DNMG150616RPMK9125	63
1819211	..DNMG110408FWKT315	59	1868612	..TNMG160408RNMK9110	82	1871172	..DCMT11T308LFC5010	116	1940940	..TNMG220412RPMK9125	82
1819335	..DNMG150404FWKT315	59	1868613	..TNMG160412RNMK9110	82	1871193	..DPMT070204LFC5010	118	1940941	..TNMG270612RPMK9125	82
1819336	..DNMG150408FWKT315	59	1868614	..TNMG220408RNMK9110	82	1871197	..SPMT09T304LFC5010	127	1940960	..CNMG160608RPMK9110	60
1819337	..DNMG150412FWKT315	59	1868617	..VNMG160408RNMK9110	89	1871198	..TCMT110204LFC5010	130	1940967	..DNMG150416RPMK9110	63
1819340	..DNMG150612FWKT315	59	1868622	..VNMG080412RNMK9110	97	1871286	..TNMG160404LFC5010	76	1940979	..TNMG220408RPMK9110	82
1819354	..TNMG160404FWKT315	78	1868635	..CNMG090308MNMK9110	46	1871287	..TNMG160408LFC5010	76	1940984	..VNMG160408RPMK9110	90
1819355	..TNMG160408FWKT315	78	1868640	..CNMG120416MNMK9110	46	1871288	..VNGG160402LFC5010	86	1956964	..TNMG220408RNMK9110	78
1819357	..VNMG160404FWKT315	88	1868641	..CNMG160608MNMK9110	46	1871289	..VNGG160404LFC5010	86	1956967	..TNMG220412FNKC9110	78
1819358	..VNMG160408FWKT315	88	1868643	..CNMG160616MNMK9110	46	1871317	..VNGG220408LFC5010	86	1956971	..TNMG220408RPMK9110	78
1819440	..DNMG150404FWKC5010	59	1868648	..DNMG110404MNMK9110	60	1871318	..VNMG080401LFC5010	92	1984003	..CCMT09T308MFKC5025	106
1819441	..DNMG150408FWKC5010	59	1868649	..DNMG110408MNMK9110	60	1871319	..VNMG080402LFC5010	92	1997668	..DNMP110408RKC9110	65
1819494	..DNMG150604FWKC5010	59	1868651	..DNMG150404MNMK9110	60	1871320	..VNMG080404LFC5010	92	2213919	..DNMG110408RPMK9125	63
1819495	..DNMG150608FWKC5010	59	1868653	..DNMG150412MNMK9110	60	1875071	..SNMM190612RNMK9125	74	2213947	..VNMG060408RPMK9110	97
1819497	..SNMG120404FWKC5010	69	1868655	..DNMG150604MNMK9110	60	1875072	..SNMM190616RNMK9125	74	2213962	..CCMT120412MFKC5025	106
1819500	..TNMG160404FWKC5010	78	1868656	..DNMG150608MNMK9110	60	1875075	..SNMM250732RNMK9125	74	2226032	..TNMG160404MSK313	89
1819501	..TNMG160408FWKC5010	78	1868660	..SNMG090308MNMK9110	70	1876835	..TNMG160412FWKC9110	79	2229645	..DNGG150404FSK5025	55
1819502	..TNMG160412FWKC5010	78	1868664	..SNMG120412MNMK9110	70	1876838	..TNMG160412FWKT315	79	2229653	..CNMG120412MSK313	48
1819513	..VNMG160404FWKC5010	88	1868620								

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2429893	CNMG120412CTKC9110	44	3751881	CNMG190612UNKCK05	51	3768985	TCMT110312FPKCP05	129	3769345	CCMT120404FPKCU10	104
2429968	DNMG110408CTKC9110	57	3751882	CNMG190616UNKCK05	51	3769002	CCMT060204FPKCK20	104	3769346	CCMT120408FPKCU10	104
2429979	DNMG150404CTKC5010	57	3751884	DNMG110412UNKCK05	63	3769004	CPMT060204FPKCP10	110	3769347	CPMT060202FPKCU10	110
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2430006	DNMG150612CTKC5010	57	3751888	DNMG150608UNKCK05	63	3769049	CCMT060202FPKTP10	104	3769349	CPMT060202FPKCU10	110
2432405	RCMT2006MORPKC9125	120-121	3751889	DNMG150612UNKCK05	63	3769050	CCMT060204FPKTP10	104	3769350	CPMT060204FPKCU10	110
2435297	CNMG120404PKC5010	49	3751891	SNMG120408UNKCK05	73	3769051	CCMT060208FPKTP10	104	3769351	CPMT060208FPKCU10	110
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2435300	CNMG190612PKC5010	49	3751895	SNMG150612UNKCK05	73	3769053	CCMT09T304FPKTP10	104	3769353	CPMT09T304FPKCU10	110
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2435313	SNMG120408PKC5010	71	3751900	SNMG190612UNKCK05	73	3769055	CPMT060202FPKTP10	110	3769355	DCMT070202FPKCU10	114
2435315	TNMG160404PKC5010	81	3751905	CNMA190608KCK05	43	3769056	CPMT060204FPKTP10	110	3769356	DCMT070204FPKCU10	114
2435316	TNMG160408PKC5010	81	3751909	DNMA110408KCK05	56	3769057	CPMT060208FPKTP10	110	3769357	DCMT070208FPKCU10	114
2435317	TNMG220404PKC5010	81	3751911	TNMG1160412UNKCK05	83	3769058	CPMT09T302FPKTP10	110	3769358	DCMT111302FPKCU10	114
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2435320	VNMG160404PKC5010	89	3751921	TNMG220412UNKCK05	83	3769060	CPMT09T308FPKTP10	110	3769360	DCMT111308FPKCU10	114
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2435323	VNMG080408PKC5010	96	3751929	VNMG160404UNKCK05	90	3769062	DCMT070204FPKTP10	114	3769362	DCMT150402FPKCU10	114
2435325	DNMG150608PKC5010	62	3751932	TNMA220412KCK05	77	3769063	DCMT111302FPKTP10	114	3769363	DCMT150408FPKCU10	114
2442453	DNMP150404KCK9125	65	3751933	VNMG160408UNKCK05	90	3769064	DCMT111304FPKTP10	114	3769364	DPMT070202FPKCU10	117
2442454	DNMP150604KCK9125	65	3751936	VNMG060408UNKCK05	98	3769065	DCMT111308FPKTP10	114	3769365	DPMT070204FPKCU10	117
2442463	CNMP120404KCK9110	54	3751940	VNMG060412UNKCK05	98	3769066	DPMT070204FPKTP10	117	3769366	DPMT070208FPKCU10	117
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2456099	RCGT1204MOMSKC5010	120	3751942	CNMG090304FNKCK05	45	3769068	DPMT111308FPKTP10	117	3769368	DPMT111304FPKCU10	117
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2456165	RCMT1204MORPKC9110	120-121	3751947	VNMG080408UNKCK05	98	3769070	SPMT09T308FPKTP10	125	3769370	SCMT09T304FPKCU10	123
2456167	RCGT0602MORPKC9125	120	3751951	VNMG080412UNKCK05	98	3769071	TCMT110202FPKTP10	129	3769371	SCMT09T308FPKCU10	123
2456168	RCGT0803MORPKC9125	120	3751961	DNMG150612FNKCK05	58	3769072	TCMT110204FPKTP10	129	3769372	SCMT120404FPKCU10	123
2456173	RCMT1606MORPKC9125	120-121	3751963	SNMG090308FNKCK05	69	3769073	TCMT110208FPKTP10	129	3769373	SCMT120408FPKCU10	123
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3017854	VBMT160412LFC9105	137	3752066	TNMG220416RPKCK15	82	3769078	TPMT110208FPKTP10	134	3769378	TCMT090208FPKCU10	129
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3639761	SCMT09T308MPKCK20	124	3752153	SNMA120416KCK15	68	3769083	VBMT160402FPKTP10	136	3769381	TCMT110208FPKCU10	129
3639874	SCMT09T308MPKCU10	124	3752159	TNMA160416KCK15	77	3769084	VBMT160404FPKTP10	136	3769382	TCMT110304FPKCU10	129
3639875	DCMT111308MPKCK20	115	3752162	TNMA220416KCK15	77	3769085	VBMT160408FPKTP10	136	3769383	TCMT110308FPKCU10	129
3639878	DCMT111308MPKCU10	115	3752166	VNMA060412KCK15	92	3769114	DPMT070204FPKCM15	117	3769384	TCMT110312FPKCU10	129
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3652102	SNMG190612RMKCU10	72	3752195	RNMG120400UNKCK15	66	3769167	TPMT220408FPKCP25	134	3769390	TPMT090204FPKCU10	134
3652863	SNMG190616RMKCU10	72	3752198	SNMG120416UNKCK15	73	3769168	VBMT110302FPKCP25	136	3769391	TPMT090208FPKCU10	134
3652864	TNMG330924RMKCU10	81	3752202	SNMG190616UNKCK15	73	3769175	WCMT06T308FPKCP25	137	3769392	TPMT110202FPKCU10	134
3744908	TPMT110208MPKCP25	135	3752205	TNMG160416UNKCK15	83	3769178	WPMTS3T104FPKCP25	138	3769393	TPMT110204FPKCU10	134
3744944	CPMT060208MPKCP10	112	3752208	TNMG220416UNKCK15	83	3769199	CCMT09T302FPKCU10	104	3769394	TPMT110208FPKCU10	134
3744948	DCMT111312MPKCP10	115	3753206	VNMG060404FPKCP10	93	3769203	CCMT060202FPKCM25	104	3769395	TPMT110304FPKCU10	134
3744952	CCMT060204MPKCK20	106	3753331	CNMM160624RMKCP10	53	3769206	CCMT09T302FPKCM25	104	3769396	TPMT110308FPKCU10	134
3744954	CCMT09T304MPKCK20	106	3753338	DNMM150616RMKCP10	64	3769223	CPMT060202FPKCM25	110	3769397	TPMT16T304FPKCU10	134
3744955	CCMT09T308MPKCK20	106	3753345	TNMM160408RMKCP10	83	3769226	CPMT09T302FPKCM25	110	3769398	TPMT16T308FPKCU10	134
3744956	CCMT120408MPKCK20	106	3753366	DNMM150616RPKCP10	64	3769229	DCMT070202FPKCM25	114	3769399	TPMT16T312FPKCU10	134
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3744960	DCMT111304MPKCK20	115	3753377	VNMG060408RMKCP10	97	3769242	SCMT120404FPKCM25	123	3769401	VBMT110302FPKCU10	136
3744961	DPMT111308MPKCK20	118	3753496	CNMG190616RMKCP25	49	3769247	TCMT110202FPKCM25	129	3769402	VBMT110304FPKCU10	136
3744962	SCMT09T304MPKCK20	124	3753497	CNMG250924RMKCP25	49	3769252	TCMT16T312FPKCM25	129	3769403	VBMT110308FPKCU10	136
3744963	SCMT120404MPKCK20	124	3753500	SNMG190612RMKCP25	72	3769262	VBMT160402FPKCM25	136	3769404	VBMT160402FPKCU10	136
3744965	SPMT09T308MPKCK20	126	3753501	SNMG190616RMKCP25	72	3769264	CPMT060204FPKCU10	110	3769405	VBMT160404FPKCU10	136
3744966	SPMT120408MPKCK20	126	3753503	TNMG330924RMKCP25	81	3769265	CPMT09T304FPKCU10	110	3769406	VBMT160408FPKCU10	136
3744967	TCMT110208MPKCK20	130	3753532	SNMG190608RNKCP25	72	3769266	CPMT09T308FPKCU10	110	3769407	WCMT040204FPKCU10	137
3744971	TPMT16T308MPKCK20	135	3753870	CPMT09T304MVKCK20	112	3769267	DCMT070204FPKCU10	114	3769408	WCMT06T308FPKCU10	137
3744972	TPMT16T312MPKCK20	135	3753873	DCMT111308MVKCK20	115	3769272	TCMT110204FPKCU10	129	3769409	WPMT040204FPKCU10	138
3744975	CCMT060204MPKCU10	106	3753911	VNMG060412RPKCK20	97	3769275	VBMT110304FPKCU10	136	3769410	WPMT06T304FPKCU10	138
3744976	CCMT09T304MPKCU10	106	3753937	DCMT111308FVKCK20	114	3769276	VBMT110308FPKCU10	136	3769411	WPMT06T308FPKCU10	138
3744977	CCMT09T308MPKCU10	106	3753939	DPMT070208FVKCK20	117	3769285	WPMT040204FPKCM25	138	3769412	WPMTS3T104FPKCU10	138
3744978	CCMT120408MPKCU10	106	3753941	DPMT111308FVKCK20	117	3769287	WPMT06T308FPKCM25	138	3769413	CCMT060202FPKCU10	104
3744979	CPMT060208MPKCU10	112	3755503	DPMT111308LFC9105	117	3769290	CCMT060202FPKCU10	104	3769414	CCMT060204FPKCU10	104
3744980	CPMT09T308MPKCU10	112	3755546	SPMT120408MPKCK20	126	3769291	CCMT060204FPKCU10	104	3769415	CCMT060208FPKCU10	104
3744981	DCMT111304MPKCU10	115	3755703	SNMG150608MPKCM15	70	3769292	CCMT060208FPKCU10	104	3769416	CCMT09T302FPKCU10	110
3744982	DCMT111312MPKCU10	115	3757392	DNMA150416KCK20	56	3769304	CCMT060208FPKCK20	104	3769417	CCMT09T304FPKCU10	110
3744983	DPMT111308MPKCU10	118	3757590	CNMG160608UNKCK20	51	3769305	CCMT09T304FPKCK20	104	3769418	CCMT09T308FPKCU10	110
3744984	SCMT09T304MPKCU10	124	3757914	CCMW060204KCK20	107	3769306	CCMT09T308FPKCK20	104	3769419	CCMT120404FPKCU10	104
3744985	SCMT120404MPKCU10	124	3757915	CCMW09T304KCK20	107	3769307	CCMT120404FPKCK20	104	3769420	CCMT120408FPKCU10	104
3744986	SCMT120408MPKCU10	124	3757916	CCMW09T308KCK20	107	3769308	CCMT120408FPKCK20	104	3769421	CPMT060	

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3769446	TCMT090204FPKCJ25	129	4045200	CCGT120408HPKCJ10	103	4045341	VBGT160401LFKCJ10	136	4050491	DNMG150616RPKCJ25	63
3769447	TCMT090208FPKCJ25	129	4045201	CCMT060202FVKCJ10	105	4045342	VBGT160404HPKCJ10	135	4050513	CNMG160612MPKCJ25	47
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3769449	TCMT110204FPKCJ25	129	4045203	CCMT060208FVKCJ10	105	4045344	VBGT160408HPKCJ10	135	4050515	DNMG150608MPKCJ25	60
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4053371	DNMG110404FWKCU10	59	4165348	CNGP120408K10U	42	5062137	TNMG160408RPKCU10	82	5387559	SCMT120412MFKCP25B	124
4053372	DNMG110408FPKCU10	58	4165350	CNGP120412K10U	42	5062138	TNMG160412MPKCU10	80	5387563	SCMT120412RPKCP25B	123
4053373	DNMG110408MPKCU10	60	4165352	DNGP150402K10U	56	5062139	TNMG220404PKCU10	81	5387567	SNMG150612RPKCP25B	73
4053374	DNMG110408RPKCU10	63	4165353	DNMA150408K20K	56	5062140	TNMG220408MPKCU10	80	5387571	SPMT09T308LFKCP25B	126
4053375	DNMG110408UPKCU10	64	4165354	DNMA150412K20K	56	5062141	TNMG220408RPKCU10	81	5387575	TNMG160412RPKCP25B	82
4053376	DNMG150404CTKCU10	57	4165355	DNMA150608K20K	56	5062142	TNMG220408RPKCU10	82	5387577	TNMG220416RPKCP25B	82
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4053378	DNMG150404FWKCU10	59	4165357	SNMA120408K20K	68	5062144	TNMG220412PKCU10	81	5387579	TPMT110208LFKCP25B	134
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5387806	RNMG120400UNKCK15B	66	5403112	CNMG160616MRKCP10B	47	5425606	TNMG220416RNKCP25B	82	5537437	DCMT070208FPKCP25B	114
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5387853	DPMT11T308LFKCP10B	117	5413170	CMTO9T312MFKCP25B	106	5489410	VNMG080416MNKCP25B	94	5538858	DCMT11T308FPKCP10B	114
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5591720	TNMG220412MKNCP40B	79	5591983	CNMG160612RPNKCP40B	50	5596489	CNMM190612RPNKCM25B	53	5639781	TCMT110204FPKCK20B	129
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5591729	CNMG090312MKNCP40B	46	5591992	TNMG270616RPNKCP40B	82	5628833	DNMG150408MFKCPK05	61	5639790	TCMT16T308FPKCK20B	129
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5591771	SNMG150612MKNCP40B	70	5591994	RNMG150608RPNKCP40B	66	5628835	DNMG150412RPNKCP05	62	5639792	TCMT16T308MFKCK20B	130
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5591774	WNMG080408MKNCP25B	95	5591997	SNMG120412RPNKCM25B	72	5628839	DNMG150612RPNKCP05	62	5639795	TCMT220408LFPKCK20B	129
5591775	CNMG160616MKNCP40B	47	5591998	DNMG150616RPNKCP40B	64	5628840	DNMM150616RPNKCP05	64	5639796	TCMT16T304LFPKCK20B	129
5591776	SCMT09T308MFKCK25B	124	5591999	TNMG160408RPNKCM25B	83	5628841	SNMG150616RPNKCP05	72	5639797	TCMT16T308FPKCK20B	130
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5591778	VBMT160408MFKCK25B	137	5592001	SNMG150616RPNKCP40B	72	5628843	TNMG220412RPNKCP05	82	5639820	TNMA160412FKCK20B	77
5591779	CNMG120404MFKCK25B	47	5592002	TNMG160412RPNKCP40B	72	5628844	WNMG080408RPNKCP05	97	5639821	TNMA160416FKCK20B	77
5591780	CNMG160612MFKCK25B	47	5592003	WNMG060408RPNKCM25B	98	5628845	WNMG080408MFKCPK05	95	5639822	TNMA220408MFKCK20B	77
5591781	WNMG160408MFKCK25B	88	5592004	SNMG190612RPNKCP40B	72	5628846	WNMG080412MFKCPK05	94	5639823	TNMA220412FKCK20B	77
5591782	DNMG150408MFKCK25B	60	5592005	WNMG080408RPNKCM25B	98	5628847	WNMG080412RPNKCP05	97	5639824	TNMA220416FKCK20B	77
5591783	TCMT09T308MFKCK25B	106	5592006	RNMG190608RPNKCP40B	66	5628849	WNMG080412RPNKCP05	95	5639825	TNMG160412RPNKCP20B	82
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5591906	TCMT16T308MFKCK25B	130	5592141	DNMG110408MFKCK25B	61	5639387	DCMT11T308MFKCK20B	115	5640381	TCMT09T304LFPKCK20B	105
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5591914	TCMT060204MFKCK25B	106	5593887	DNMG150408MFKCK20B	61	5639665	DNMA150608LFPKCK20B	56	5640389	TCMT120404RPNKCK20B	104
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5591932	DNMG150608RPNKCP25B	63	5593937	DNMG150608MFKCU10	61	5639683	DCMT070208FWKCK20B	117	5640397	TCMT060204FKCK20B	107
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5591952	SNMG120416MFKCK25B	70	5596417	DCMT11T308LFPKCM25B	114	5639693	RCMT2006MFKCK20B	121	5640409	TCMT060204MFKCK20B	110
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5591954	SNMG150612MFKCK25B	70	5596419	DCMT11T304LFPKCM25B	114	5639695	RCMT120400KCK20B	121	5640411	TCMT060204MFKCK20B	110
5591955	CNMG190616RPNKCP25B	50	5596450	TCMT09							

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5640438	..VNMG080416RPKCK20B	97	5641106	..SNMG150612RPKCM15B	73	5694092	..CNMG190612RPKCP25B	50	5697162	..SNMG120412CKP10B	68
5640442	..CCMT060204LFKCM15B	105	5641107	..SNMG150616RPKCM15B	73	5694093	..CNMG190616RPNKCP25B	50	5697163	..SNMG150616RPNKCP10B	73
5640443	..CCMT09T304LFKCM15B	105	5641108	..TCMT110204LFKCM15B	129	5694094	..CNMG190624RNNKCP25B	50	5697164	..SNMG190612RNNKCP10B	72
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Metalcutting Safety

IMPORTANT SAFETY INSTRUCTIONS

Read before using the tools in this catalogue!

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 catalogue and recommendations on machining practices may not apply to your particular operation. For more information, consult Kennametal's 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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