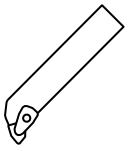
KORLOY Digest Catalog - English EN

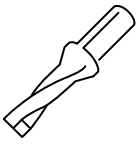
CUTTING TOOLS

Exploring Limitless Machining KORLOY

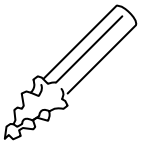


Turning

Milling

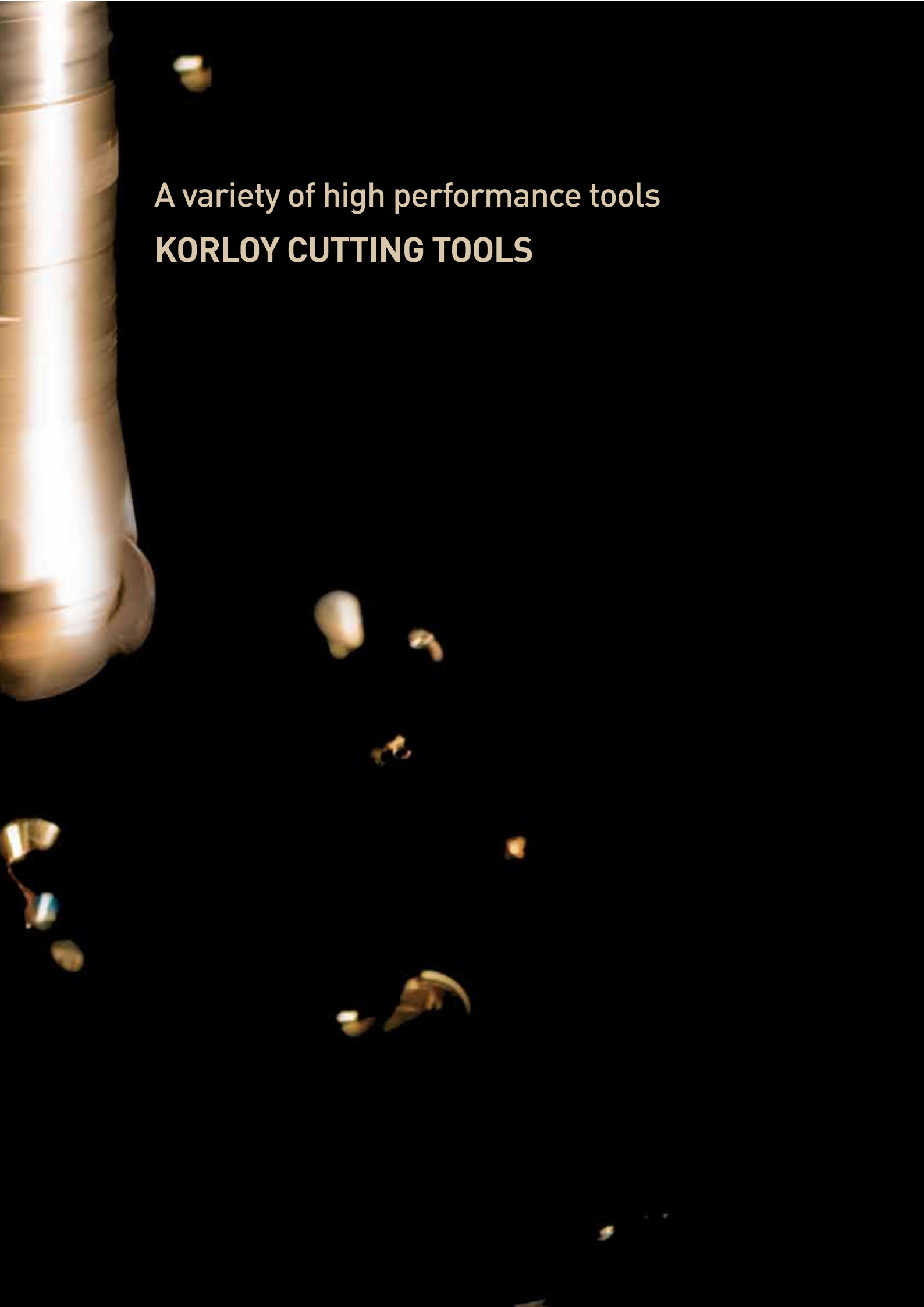


Holemaking



Endmilling

KORLOY



A variety of high performance tools

KORLOY CUTTING TOOLS

CONTENTS

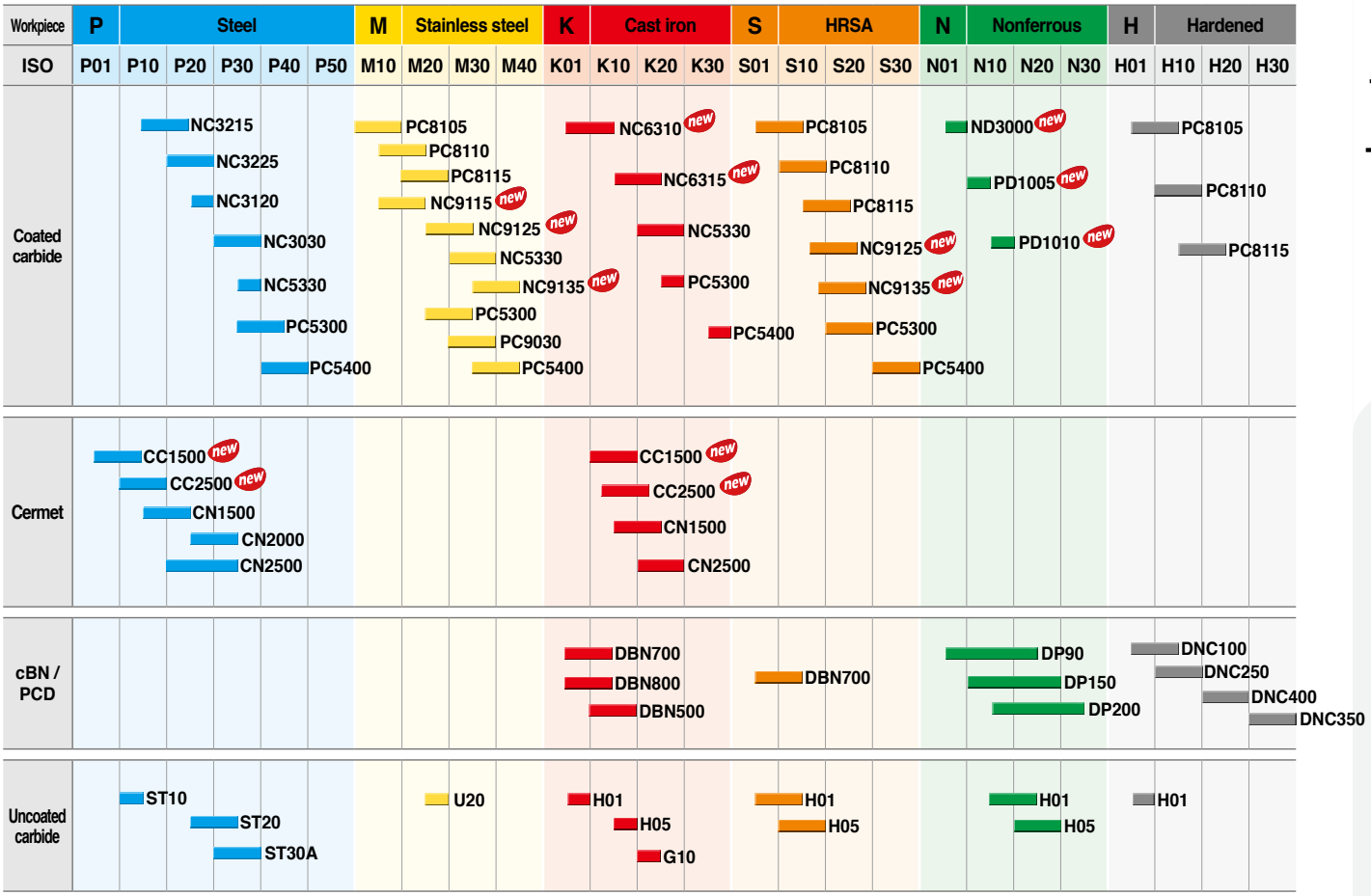
Grades / Chip Breakers

Korloys new grades are designed with optimal substrates for each application and are PVD coated for high temperature, high hardness and oxidation resistance, or CVD coated for high temperature and wear resistance. Additionally, the improved post-coating treatment provides superior surface finishes to ensure the highest levels of quality and productivity.

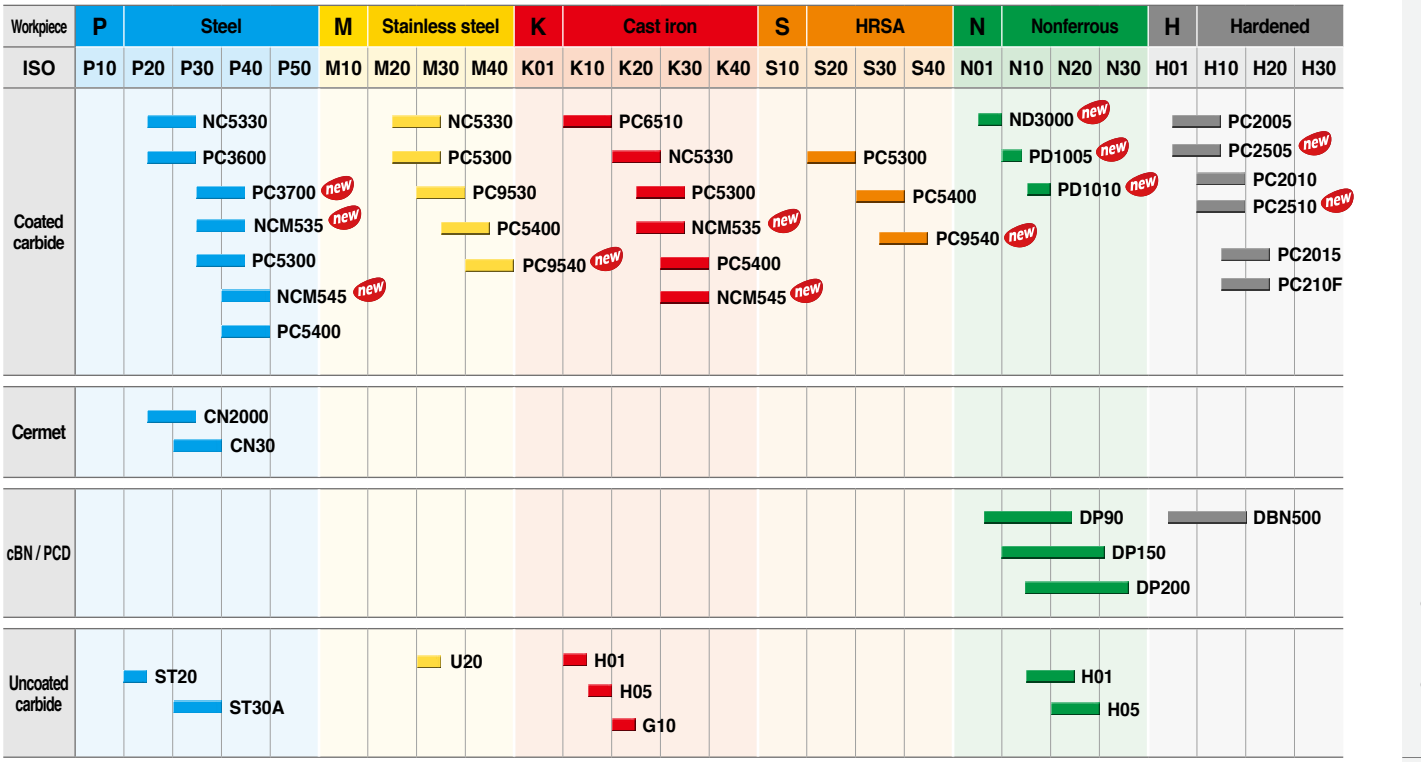
- Selection of KORLOY Grades
- CVD Coated Grades
- PVD Coated Grades
- Cermet Grades
- Uncoated Carbide Grades
- cBN Grades
- PCD Grades
- Chip Breakers

< Selection of KORLOY Grades >

Turning



Milling



Selection of KORLOY Grades

Endmilling

Workpiece		Grades	ISO	Application range
P	Steel	PC303S	P01	
		PC310U	P10	PC303S, PC203F
		PC315F	P20	PC310U
		PC320	P30	PC315E, PC320, PC215F
			P40	
M	Stainless steel	PC303S	M01	
		PC310U	M10	PC303S, PC203F
		PC320S	M20	PC310U, PC320S
		PC315E	M30	PC315E, PC320, PC215F
K	Cast iron	PC303S	K01	
		PC310U	K10	PC303S, PC203F
		PC315E	K20	PC310U
		PC320	K30	PC315E, PC320, PC215F
			K40	
N	Nonferrous	ND3000 (new)	N01	ND3000 (new)
		ND2100 (new)	N05	ND2100 (new)
		PD3000	N10	PD1005 (new), PD1010 (new), H01, H05S
		H01	N20	PC210C
S	HRSA	PC210	S10	
		PC320S	S20	PC210, PC320S
		PC315E	S30	PC315E, PC320, PC215F
H	High hardness steel	PC303S	H01	
		PC203F	H10	PC303S, PC203F
		PC310U	H20	PC310U

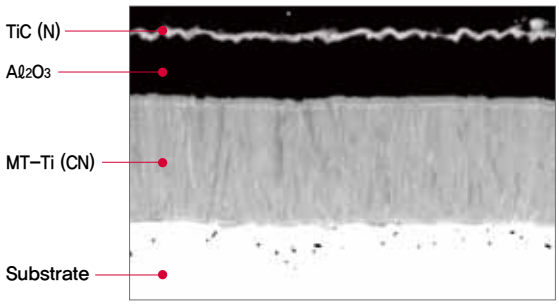
Drilling

Workpiece		Grades	ISO	Application range
P	Steel	PC215G	P01	
		PC315G	P10	
		PC325U	P20	PC215G, PC315G, PC325U, PC230F
		PC230F	P30	
M	Stainless steel	PC215G	M01	
		PC315G	M10	
		PC205F	M20	PC215G, PC315G
		PC325U	M30	PC205F
K	Cast iron	PC215G	K01	
		PC315G	K10	
		PC205F	K20	PC215G, PC315G
		PC325U	K30	PC205F
N	Nonferrous	ND2100 (new)	N05	
		FG2	N10	ND2100 (new), FG2, FA1
			N20	
S	HRSA	PC325T (new)	S20	
			S30	PC325T (new)

CVD Coated Grades

Features

- KORLOY cermet is a carbonitride type cermet which has an ultra fine microstructure accomplished by adding TiN, TiCN powders as additives. It also has superior toughness, thermal shock and wear resistance.



Cross-sectional view of CVD coating

Grades Selection Guide

Turning

Workpiece		Machining types	Recommended grades	Recommended cutting speed (m/min)	ISO	Application range
P	Steel	Continuous cutting	NC3215	295 (170 ~ 420)	P10	NC3215
		Interrupted cutting	NC3225	260 (150 ~ 370)	P15	NC3225
					P20	NC3120
			NC3120	260 (120 ~ 370)	P25	NC3030
			NC3030	205 (120 ~ 290)	P30	NC5330
			NC5330	205 (120 ~ 290)	P35	
M	Stainless steel	Continuous cutting	NC9115 new	240 (220 ~ 260)	M10	NC9115 new
			NC9125 new	210 (190 ~ 230)	M20	NC9125 new
		Interrupted cutting	NC9135 new	180 (160 ~ 200)	M30	NC5330
					M40	NC9135 new
K	Cast iron	Continuous cutting	NC6310 new	380 (300 ~ 500)	K10	NC6310 new
			NC6315 new	280 (200 ~ 400)	K20	NC6315 new
		Interrupted cutting	NC5330	190 (110 ~ 270)	K30	NC5330
S	HRSA	Continuous cutting	NC9125 new	40 (20 ~ 60)	S10	NC9125 new
		Interrupted cutting	NC9135 new		S20	NC9135 new

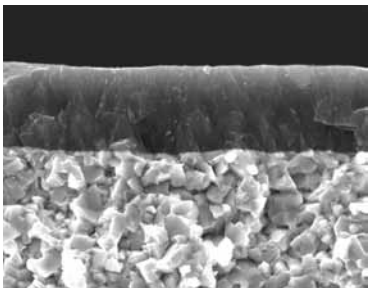
Milling

Workpiece		Machining types	Recommended grades	Recommended cutting speed (m/min)	ISO	Application range
P	Steel	Continuous cutting	NC5330	200 (150 ~ 250)	P20	NC5330
					P25	
		Continuous cutting	NCM535 new	300 (200 ~ 400)	P30	NCM535 new
					P35	
		Interrupted cutting	NCM545 new	200 (150 ~ 250)	P40	NCM545 new
					P45	
M	Stainless steel	Continuous cutting	NC5330	150 (120 ~ 180)	M10	NC5330
					M20	
		Continuous cutting	NCM535 new	130 (100 ~ 150)	M25	
					M30	
		Interrupted cutting	NCM545 new	110 (90 ~ 130)	M35	
					M40	
K	Cast iron	Continuous cutting	NC5330	200 (150 ~ 250)	K10	
					K20	NC5330
			NCM535 new	250 (200 ~ 300)	K30	NCM535 new

PVD Coated Grades

Features

- PVD coating technology has inherent advantages such as a superior chipping resistance of the coated film while maintaining the toughness of the substrate. Thus it is possible to increase the tool life significantly
- PVD coatings ensure sharp cutting edges without blunting the substrate
- Ti-based coating films can provide excellent surface finish and high accuracy machining due to the low affinity of Ti-film with the workpiece



Cross-sectional view of PVD coating

Advantages of PVD Coatings

- TiAℓN coating optimal for high speed machining
- Toughness of TiAℓN has been enhanced to reduce brittleness of conventional TiAℓN
- The outer TiN layer reduces friction and improves surface smoothness
- Easy to recognize the amount of wear on the cutting edge

Grades Selection Guide

Turning

Workpiece		Machining types	Recommended grades	Recommended cutting speed (m/min)	ISO	Application range
P	Steel	Continuous cutting	PC5300	175 (100 ~ 250)	P30	PC5300
		Interrupted cutting		145 (80 ~ 120)	P40	PC5400
			PC5400	125 (80 ~ 160)	P50	
M	Stainless steel	Continuous cutting	PC8105	175 (120 ~ 230)	M01	
			PC8110	160 (110 ~ 210)	M10	PC8105
			PC8115	150 (100 ~ 200)	M20	PC8110
		Interrupted cutting	PC5300	135 (80 ~ 190)	M30	PC8115
			PC9030	130 (80 ~ 180)	M40	PC5300
			PC5400	110 (80 ~ 140)	M50	PC9030
S	Heat resistant alloy	Continuous cutting	PC8105	55 (40 ~ 70)	S01	PC5400
			PC8110	50 (35 ~ 65)	S10	PC8105
			PC8115	45 (30 ~ 60)	S20	PC8110
		Interrupted cutting	PC5300	40 (20 ~ 60)	S30	PC8115
			PC5400	35 (20 ~ 50)	S40	PC5300
H	Hardened	Interrupted cutting	PC8105	110 (80 ~140)	H01	PC5400
			PC8110	100 (70 ~ 130)	H05	PC8105
			PC8115	90 (65 ~ 115)	H10	PC8110
						PC8115

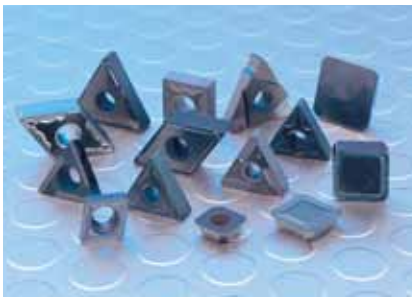
Milling

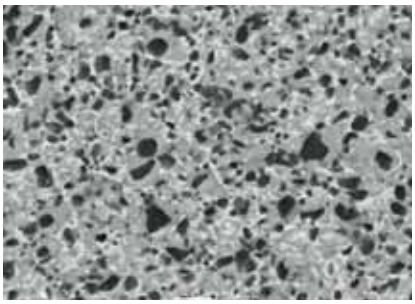
Workpiece		Machining types	Recommended grades	Recommended cutting speed (m/min)	ISO	Application range
P	Steel	Continuous cutting	PC3600	235 (180 ~ 290)	P20	PC3600
			PC3700	235 (180 ~ 290)	P30	PC3700 new
		Interrupted cutting	PC5300	195 (150 ~ 240)	P40	PC5300
			PC5400	145 (80 ~ 210)		PC5400
M	Stainless steel	Continuous cutting	PC5300	130 (100 ~ 160)	M20	PC5300
			PC9530	130 (100 ~ 160)	M30	PC9530
		Interrupted cutting	PC5400	120 (95 ~ 155)	M40	PC5400
			PC9540	110 (80 ~ 140)	M50	PC9540 new
K	Cast iron	Continuous cutting	PC6510	180 (140 ~ 230)	K05	
					K10	PC6510
		Interrupted cutting	PC5300	145 (110 ~ 180)	K20	PC5300
			PC5400	125 (85 ~ 160)	K30	PC5400
S	HRSA	Continuous cutting	PC5300	55 (40 ~ 70)	S10	
					S20	PC5300
		Interrupted cutting	PC5400	40 (30 ~ 50)	S30	PC5400
			PC9540	40 (30 ~ 50)	S40	PC9540 new
H	High hardness steel	Continuous cutting	PC2005	60 (40 ~ 80)	H01	PC2005
			PC2010	55 (40 ~ 70)	H10	PC2505 new
			PC2015	50 (35 ~ 65)	H20	PC2010
			PC210F	50 (35 ~ 65)	H30	PC2510
						PC2015
						PC210F

Cermet Grades

Features

- KORLOY cermet is a carbonitride type cermet which has an ultra fine microstructure accomplished by adding TiN, TiCN powders as additives. It also has superior toughness, thermal shock and wear resistance.





Microstructure of Cermet

Advantages

- Cermet, using TiCN as the main component, is harder than cemented carbide and has a lower affinity with ferrous workpieces at high temperatures, thus cermets have special advantages as listed below :

Compared to Uncoated Carbide

- Since cermet has superior wear and crater wear resistance, higher cutting speeds can be applied
- The low affinity with ferrous workpieces enables cutting operations from low to high speed and provides an excellent surface finish
- Exceptional tool life and cutting performances in high speed finishing applications

Compared to Coated Carbide

- Suitable for light cutting and finishing
- Better wear resistance and surface finish can be acquired while using the same cutting conditions

Grades Selection Guide

Turning

Workpiece		Machining types	Recommended grades	Recommended cutting speed (m/min)	ISO	Application range
P	Steel	Continuous cutting	CN1500	250 (150~350)	P10	CN1500
					P20	
		Interrupted cutting	CN2500	220 (130~300)	P30	CN2500

Turning (Coated Cermet Grades)

Workpiece		Machining types	Recommended grades	Recommended cutting speed (m/min)	ISO	Application range
P	Steel	Continuous cutting	CC1500 new	325 (200~450)	P10	CC1500 new
					P20	
		Interrupted cutting	CC2500 new	265 (180~350)	P30	CC2500 new

Milling

Workpiece		Machining types	Recommended grades	Recommended cutting speed (m/min)	ISO	Application range
P	Steel	Continuous cutting	CN2000	250 (200~300)	P20	CN2000
		Interrupted cutting	CN30	150 (100~200)	P30	CN30

Uncoated Carbide Grades

Features

- Due to its the advanced sintering technology, KORLOY's uncoated carbide grades have a fine alloy structure which is necessary to get superior quality cutting tools

Advantages

- P, M, K carbide grades can be used for the machining of all kinds of workpieces
- Excellent quality in wet machining due to the carbide's superior thermal crack resistance
- Due to the special design of the carbide, it has a fine microstructure and low affinity with the workpiece
- It has excellent toughness and provides low cutting loads

Main composition and application range

Workpiece	Composition	Features	Workpiece
P	WC-TiC-TaC-Co	Heat resistance, excellent plastic deformation resistance	Carbon steel, Alloy steel, Stainless steel
M	WC-TiC-TaC-Co	General tools stable heat resistance with strength	Carbon steel, Alloy steel, Stainless steel, Cast steel
K	WC-Co	High strength and superior wear resistance	Cast iron, Non-ferrous metal, Plastic, etc
S	WC-Co	Excellent wear resistance and chipping resistance	Titanium alloy

The physical properties of uncoated carbide grades

Workpiece	Grades	Hardness (HRA)	TRS (kgf/mm^2)	Young's modulus ($10^3 kgf/mm^2$)	Thermal expansion coefficient ($10^{-6}/°C$)	Thermal conductivity ($cal/cm \cdot sec \cdot °C$)
P	ST10	92.1	175	48	6.2	25
	ST20	91.9	200	56	5.2	45
	ST30A	91.3	230	53	5.2	-
M	U20	91.1	210	-	-	88
	ST30A	91.3	230	53	5.2	-
K	H01	92.9	210	66	4.7	109
	G10	90.9	250	63	-	105
S	H01	92.9	210	66	4.7	109
	H05	91.8	250	-	-	-

1KPa = $102 kgf/m^2$, 1w/mk = $2.39 \times 10^{-3} cal/cm \cdot sec \cdot °C$

Grades Selection Guide

Turning

Workpiece		Recommended grades	Recommended cutting speed (m/min)	ISO	Application range
P	Steel	ST10	110 (70 ~ 140)	P10	ST10
		ST20	80 (50 ~110)	P20	ST20
		ST30A	70 (40 ~ 90)	P30	U20 ST30A
M	Stainless steel	U20	70 (40 ~ 90)	M25	
K	Cast iron	H01	105 (60 ~ 140)	K01	H01
		H05	105 (60 ~ 140)	K10	H05
		G10	90 (50 ~ 120)	K20	G10
N	Aluminum alloy	H01	600 (450 ~ 750)	N10	H01
	Copper alloys	H05	425 (320 ~ 530)	N20	H05
S	Titanium alloy	H01	55 (40 ~ 70)	S01	H01
		H05	50 (35 ~ 65)	S10	H05
H	High hardness steel	H01	80 (55 ~ 105)	H10	H01

Milling

Workpiece		Recommended grades	Recommended cutting speed (m/min)	ISO	Application range
P	Steel	ST30A	80 (60~100)	P30	ST30A
M	Stainless steel	U20	90 (70~110)	M20	U20
				M30	
K	Cast iron	H01, H05	150 (110~190)	K10	H01 H05
		G10	120 (90~150)	K20	G10
N	Aluminum alloy	H01	600 (450~750)	N10	H01
	Copper alloys	H05	425 (320~530)	N20	H05

cBN Grades

Features

- cBN is a cutting tool material made under ultra high pressure and temperature sintering of a mixture of cubic boron nitride and a special ceramic binder material.
  cBN tools are suitable for high speed precise machining in hardened steels and cast irons. Machining with cBN can effectively replace the conventional grinding process.

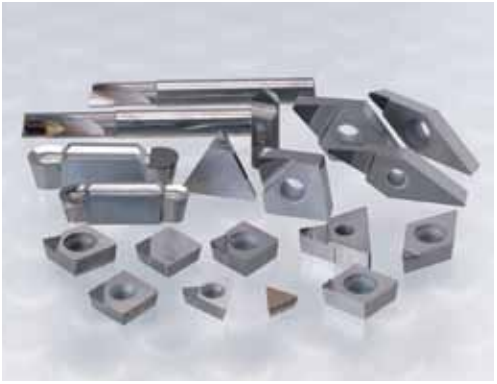
Cutting condition of cBN grades

ISO	Grades		Insert color	Application	Cutting speed, vc (m/min) 50 100 150 200 250 300	feed, fn (mm/rev)	Depth of cut, ap (mm)
H Heat-treated steel	Coated	DNC100 new		Continuous cutting at high speed	180 300	0.03~0.3	0.03~0.3
		DNC250		Continuous and low interrupted cutting at high speed	120 220	0.05~0.3	0.05~0.3
		DNC350		Medium and high interrupted cutting	90 150	0.05~0.3	0.05~0.3
		DNC400 new		Continuous and medium interrupted cutting	90 220	0.05~0.3	0.05~0.5
	Non-coated	DBNX10		Continuous cutting at high speed	150 200	0.03~0.13	0.03~0.2
		DB1000		Continuous cutting at high speed	130 250	0.03~0.15	0.03~0.2
		DBNX20		Highly efficient cutting	120 150	0.03~0.3	0.03~0.5
		DBNX25		Interrupted cutting at high speed	150 200	0.03~0.3	0.03~0.5
		DBN250		Medium and low interrupted cutting	80 120	0.03~0.2	0.03~0.3
		DB2000		Medium and low interrupted cutting	80 200	0.03~0.2	0.03~0.3
		DBN350		High interrupted cutting	80 110	0.03~0.2	0.03~0.3
		DBN400		High speed and high depth of cut	120 220	0.10~0.3	0.5

Features

- KORLOY PCD products are manufactured by using high quality PCD tips under ultra high temperatures and pressure.
  The PCD tip is welded on the qualified KORLOY carbide insert
  KORLOY high quality PCD products meet a wide range of application needs in turning, milling, and endmills.

  - Excellent tool life for aluminum alloy and copper alloy
  - Excellent tool life for Ceramic, high-silicon aluminum and rocks or stones
  - Excellent tool life for rubber, carbon, graphite and wood



⊙ PCD grades

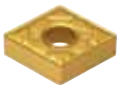
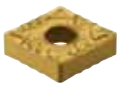
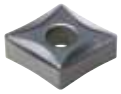
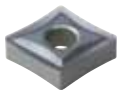
Grades	Features	Application	Grain size (㎛)	Hardness (Hv)	TRS (kgf/mm²)
DP90	Coarse diamond grain has been used to get excellent wear resistance enough to machine cemented-carbide, high Si aluminum alloy	Cemented carbide Ceramic roughing High Si aluminum alloy Rock, Stone	50	10,000~12,000	110
DP150	By use of fine diamond grain having good bonding property, it is suitable for machining of Non-ferrous metal, graphite	High Si aluminum alloy Copper, Bronze alloy Rubber, Wood, Carbon	5	10,000~12,000	200
DP200	By use of ultra fine diamond grain, it is possible to make sharp cutting edge. Thus it is appropriate grade to machine Non-ferrous material	Plastic Wood Precise finishing of aluminum	0.5	8,000~10,000	220

⊙ Recommended cutting condition

Workpiece	Cutting speed (m/min)	Feed (mm/rev)	Depth of cut (mm)	Recommended grades	
				1st	2nd
Aluminum alloy (4%~8% Si)	1000~3000	0.1~0.6	~ 3	DP150	DP200
Aluminum alloy (9%~14% Si)	600~2500	0.1~0.5	~ 3	DP150	DP200
Aluminum alloy (15%~18% Si)	300~700	0.1~0.4	~ 3	DP150	DP200
Copper, Bronze alloy	~ 1000	0.05~0.2	~ 3	DP150	DP200
Reinforced plastic	~ 1000	0.1~0.3	~ 2	DP150	DP200
Wood	~ 4000	0.1~0.4	-	DP150	DP200
Cemented carbide	10~30	~ 0.2	~ 0.5	DP90	DP150

Chip Breakers

Chip Breakers for Turning

Geometry	Cutting edge	Application range	Features
V series		feed rate fn (mm/rev): 0.04 0.063 0.10 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 depth of cut ap (mm): 0.1 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 10.0 11.6 13	
VL 		0.10~0.35 0.2~1.5	**For Finishing** • Stable chip control in high toughness material; low carbon steel, pipe steel & steel plates • Improved chip control for facing, copy machining and better surface finish
VB 		0.15~0.45 0.5~2.0	**For Finishing** • Improved chip control for smaller depth of cuts • Excellent chip control in copying, corner R machining
VF 		0.05~0.35 0.5~1.5	**For Finishing** • Good chip control quality on varied depth of cut • Excellent cutting edge strength has been acquired due to the special chip-breaker
VC 		0.12~0.45 0.5~3.5	**For Medium to finish cutting** • Stable chip control in copying and internal machining with various depths of cut
VQ 		0.10~0.40 1.0~3.0	**For Medium to finish cutting** • Medium to finishing cutting edges offer improved edge hardness • For cermet
VM 		0.10~0.50 1.0~5.0	**For Medium cutting** • Wide available chip control range from medium-finishing to medium-roughing • Suitable chip breaker for CNC machining
VH 		0.70~1.40 6.0~15.0	**For Heavy duty cutting** • Designed specifically for heavy machining • Specialized chip breaker for the heavy industries like Ship building, Power plant industry
VT 		0.75~1.60 7.0~17.0	**For Heavy duty cutting** • Designed specifically for heavy machining • Specialized chip breaker for the heavy industries like Ship building, Power plant industry
VP1 		0.05~0.20 0.1~1.5	**For Finishing** • High positive cutting edge • Reduced contract chip minimizes temperature to improve tool life
VP2 		0.05~0.40 0.5~4.0	**For Medium to finish cutting** • Stable chip control and high machinability in copying with various depths of cut

Notice: Application ranges are based on main cutting material

Chip Breakers for Turning

	Geometry	Cutting edge	Application range	Features
V series	VP3		0.05~0.45 / 0.5~4.5	**For Medium cutting** • High positive cutting edge with wide land • Stable cutting performance in interrupted machining with high toughness • Stable machinability and chip control in machining with high depth of cut
	VP4		0.15~0.45 / 1.0~4.5	**For Roughing** • The first recommended chip breaker for inconel cutting • High hard and resistant rake angle to prevent notch wear in roughing of rugged surfaces
	VR		0.25~0.55 / 1.2~7.0	**For Roughing** • High feed machining with the combination of wide land and pockets • Shallow chip breaker design prevents chip blocking at high feed • Decreased wear on major cutting edge due to special treatment on blade
-P series	LP		0.10~0.40 / 0.5~2.5	**For Medium to finish cutting** • Angle land decreases cutting resistance for better surface roughness • Special dot design prevents chip blocking by clear chip breaking
	MP		0.15~0.45 / 0.5~4.5	**For Medium cutting** • Increased productivity due to excellent chip control in various conditions • Stable tool life by reducing cutting load at high speed and high feed
-M series	MM		0.12~0.45 / 0.5~5.5	**For Medium cutting** • The first recommended chip breaker for continuous stainless applications cutting • Improved tool life and surface finish due to dual lands combining both machinability and toughness • Wide chip pockets for stable chip evacuation at high depth of cuts and high feeds
	RM		0.15~0.55 / 2.0~6.0	**For Roughing** • The first recommended chip breaker for interrupted cutting or roughing of stainless steel • Inhibited notch wear and burr creation at high depth of cuts and feeds • Reduced cutting loads and longer tool life at high feeds
-K series	MK		0.10~0.50 / 1.0~5.0	**For Medium cutting** • Suitable for continuous cutting of ductile and gray cast iron • Excellent tool life and surface finish thanks to angle lands improving cutting performance
	RK		0.20~0.60 / 1.5~6.0	**For Roughing** • Suitable for machining ductile and gray cast iron at high speeds and high feeds • Improved toughness and chipping resistance due to flat lands
H series	HA		0.03~0.30 / 0.5~2.5	**For Medium to finish cutting** • Sharp cutting edge generates low cutting force • Specially designed tough main cutting edge • Suitable for cutting of low carbon steel, stainless steel, aluminum

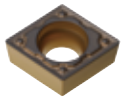
feed rate fn (mm/rev): 0.04 0.063 0.10 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3

depth of cut ap (mm): 0.1 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 10.0 11.6 13

Notice: Application ranges are based on main cutting material

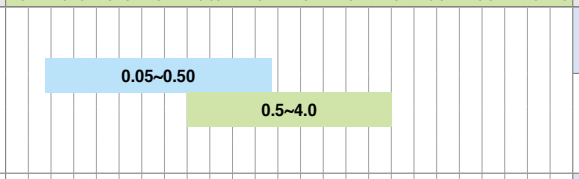
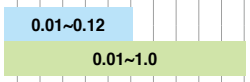
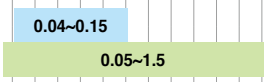
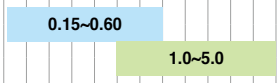
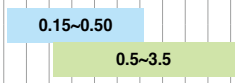
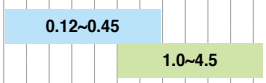
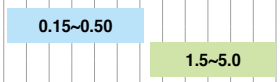
Chip Breakers

Chip Breakers for Turning

	Geometry	Cutting edge	Application range	Features
			feed rate fn (mm/rev): 0.04 0.063 0.10 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 depth of cut ap (mm): 0.1 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 10.0 11.6 13	
G series	GR 		0.30~0.80 3.0~8.0	**For Roughing** • Suitable for deep depth of cut and high feed cutting of steel and cast iron • Suitable for intermittent cutting
G series	GH 		0.30~1.30 3.0~11.0	**For Heavy duty cutting** • Suitable for heavy duty cutting due to strong cutting edge • Wide chip control range with low cutting force
B series	B25 		0.50~1.00 4.0~10.0	**For General cutting** • Suitable for general cutting condition cutting
V-Posi series	VF 		0.05~0.25 0.1~1.5	**For Finishing** • Improved surface finish and size accuracy due to stable inner boring
V-Posi series	VL 		0.05~0.20 0.1~1.0	**For Finishing** • Superior chip control in low carbon steel, pipes, and steel plates
V-Posi series	VP1 		0.01~0.25 0.1~1.5	**For Finishing** • Excellent chip control in application with micro depth of cut and low feed • Low cutting load and superb surface finish • Optimal for both internal and external machining
H-Posi series	HMP 		0.08~0.40 0.5~3.5	**For Medium cutting** • Excellent chip control at wide range of cutting conditions • Machining versatility over a wide range of materials
C-Posi series	C25 		0.10~0.35 1.0~3.0	**For Roughing** • Suitable for interrupted cutting and cast iron machining • Good surface finish due to low cutting force • Suitable for both boring and outer diameter turning
P-Posi series	MP 		0.05~0.30 0.3~3.0	**For Medium cutting** • Sharp cutting edge and wide chip pocket for low cutting load • Stable chip control at varying depth of cuts • Excellent cutting performance when machining automobile components
AL series	AK 		0.03~0.40 0.1~4.0	**For Medium to finish cutting** • High rake angle and low resistance cutting edge secures long tool life in continuous cutting of aluminum turning • High speed of finishing operation

Notice: Application ranges are based on main cutting material

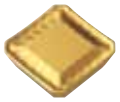
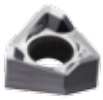
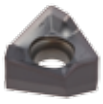
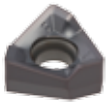
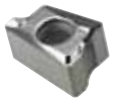
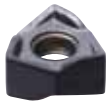
Chip Breakers for Turning

	Geometry	Cutting edge	Application range	Features
AL series	AR			**For Medium cutting** • High stability of cutting edge secures great performance in high speed and interrupted machining • High speed of medium and interrupted operation
Auto tool	KF			**For Finishing** • Shallow depth of cut with sharp edge • Longer tool life at high speed cutting due to low cutting force • Good surface finish
	KM			**For Medium to finish cutting** • Improved chip control makes tool life long and better machining
For Wiper	LW			**For Medium cutting** • Guarantees excellent surface roughness and good chip controls at high feed machining
	VW			**For Medium to finish cutting** • Improved surface roughness at shallow depth of cut and high feed due to strong cutting edge
For Shaft	SR			**For Finishing** • Shallow depth of cut with sharp edge • Longer tool life at high speed cutting due to low cutting force • Good surface finish
	SH			**For Medium cutting** • Good chip flow increases tool life and machinability.

Notice: Application ranges are based on main cutting material

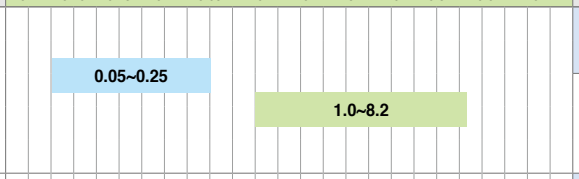
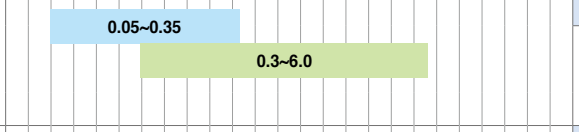
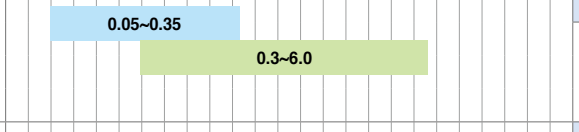
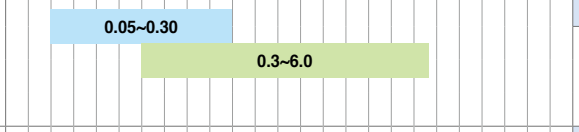
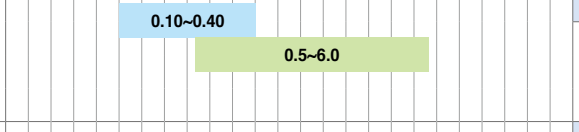
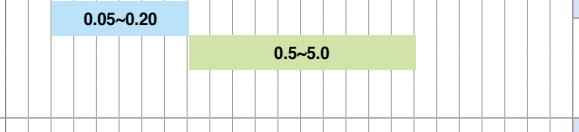
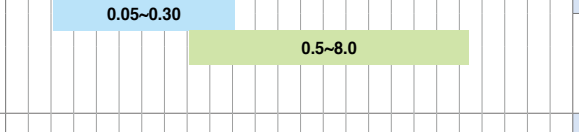
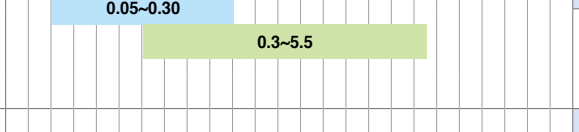
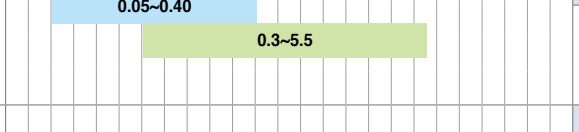
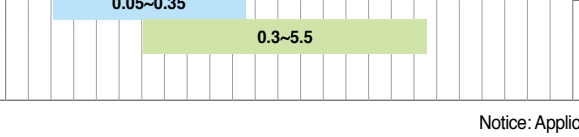
Chip Breakers

Chip Breakers for Milling

Geometry	Cutting edge	Application range (feed rate fz (mm/t): 0.04 0.063 0.10 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 / depth of cut ap (mm): 0.1 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 10.0 11.6 14)	Features
MX series — MX		 0.10~0.30 / 1.0~5.0	**For Roughing** • Possible to increase productivity through increase feed and depth • Excellent heat resistance due to the special chip breaker design of top face of insert
Mill-max Heavy — MM		 0.20~0.40 / 2.0~14.0	**For Roughing** • Specialized tool for high depth of cut roughing with high rigidity cutting edge ensures stable machining.
Rich Mill - RM3 — MA		 0.05~0.40 / 1.0~8.0	**For Aluminum machining** • Sharp cutting edge for low cutting load, which is ideal for machining steel, hard-to-cut materials and aluminum
ML		 0.05~0.30 / 1.0~8.0	**For machining hard-to-cut materials** • Low cutting resistance for light cutting and machining hard-to-cut materials with excellent tool life and surface roughness
MM		 0.05~0.35 / 1.0~8.0	**For General cutting** • Available for most of applications with universal design for general milling
Rich Mill - RM4 — MA		 0.05~0.25 / 0.3~14.0	**For Aluminum machining** • Sharp cutting edge design ensures low cutting resistance and excellent machining in difficult- tocut materials, aluminum and light machining
MF		 0.05~0.30 / 0.5~14.0	**For Light cutting** • Low cutting force chip breaker design ensures longer tool life and excellent machining in difficult-to-cut material and light machining
MM		 0.05~0.30 / 1.0~14.0	**For General cutting** • Suitable geometry design for general milling has wider ranges of machining
Rich Mill - RM6 — MA		 0.05~0.2 / 1.0~8.2	**For Aluminum machining** • Specialized sharp cutting edge for aluminum machining ensures machinability. • Buffing treatment on the surface realizes good chip flow and welding resistance.
ML		 0.05~0.25 / 1.0~8.2	**For Machining hard-to-cut materials** • Low cutting load chip breaker for light cutting • Long tool life and high quality of machining in hard-to-cut material cutting

Notice: Application ranges are based on main cutting material

Chip Breakers for Milling

Geometry		Cutting edge	Application range	Features
Rich Mill - RM6	MM			**For General cutting** • Optimally designed shape for general shoulder milling in various cutting ranges
Rich Mill - RM8	MA			**For Aluminum machining** • Sharp cutting edge and lubricated top face show excellent chip flow and welding resistance in aluminum machining
	MF			**For Light cutting** • Low cutting force chip breaker design ensures longer tool life and excellent machining in difficult-to-cut material and light machining
	ML			**For Machining hard-to-cut materials** • Chip breaker with low cutting load resistance ensures long tool life and high quality in light and hard-to-cut material cutting.
	MM			**For General cutting** • Suitable geometry design for general milling has wider ranges of machining
Rich Mill - RMT	MF			**For Light cutting** • Low cutting force chip breaker design ensures longer tool life and excellent machining in difficult-to-cut material and light machining
	MM			**For General cutting** • Suitable geometry design for general milling has wider ranges of machining
Rich Mill - RM16	MA			**For Aluminum machining** • Sharp cutting edge design ensures low cutting resistance and excellent machining in difficult- tocut materials, aluminum and light machining
	MF			**For Light cutting** • Low cutting force chip breaker design ensures longer tool life and excellent machining in difficult-to-cut material and light machining
	ML			**For Machining hard-to-cut materials** • Low cutting resistance for excellent tool life and surface roughness in machining hard-to-cut materials

Notice: Application ranges are based on main cutting material

Chip Breakers

Chip Breakers for Milling

Geometry		Cutting edge	Application range feed rate fz (mm/t) 0.04 0.063 0.10 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 depth of cut ap (mm) 0.1 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 10.0 11.6 17	Features
Rich Mill - RM16	MM 		0.10~0.45 0.5~5.5	**For General cutting** • Suitable geometry design for general milling has wider ranges of machining
	W 		0.05~0.30 0.3~2.0	**For Finishing of milling (Wiper)** • Wiper insert provides improved surface roughness due to special cutting edge
Alpha Mill	MA 		0.10~0.40 0.5~16	**For Aluminum machining** • Sharp cutting edge and lubricated top face show excellent chip flow and welding resistance in aluminum machining
	MF 		0.05~0.15 0.5~16	**For Light cutting** • Low cutting force chip breaker design ensures longer tool life and excellent machining in difficult-to-cut material and light machining
	MM 		0.10~0.25 0.5~16	**For General cutting** • Suitable geometry design for general milling has wider ranges of machining
	ML 		0.05~0.15 0.5~16	**For Hard-to-cut material machining** • The chip breaker with low cutting resistance ensures superior machinability in hard-to-cut materials
	MN 		0.10~0.25 0.5~16	**For Roughing (nick)** • Design for easy chip cutting ensures high machinability in toughing.
Alpha Mill-X	MM 		0.05~0.35 1.0~16.5	**For General cutting** • Shape for general milling with most cutting range
	ML 		0.05~0.30 1.0~16.5	**For Hard-to-cut material machining** • Chip breaker for cutting with low cutting load guarantees long tool life and qualified machining in light cutting and HRSA machining.
Future Mill	MF 		0.05~0.20 0.5~5.0	**For Light cutting** • Special design for light cutting of gummy materials like stainless steel and hard to machine material provide fine surface finish and longer tool life

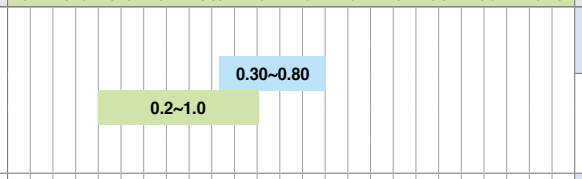
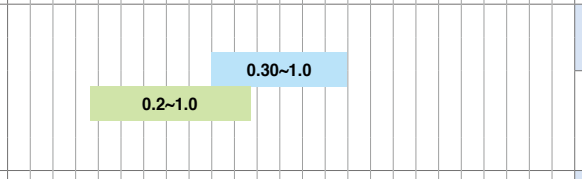
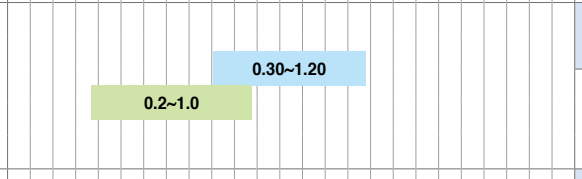
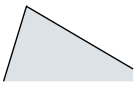
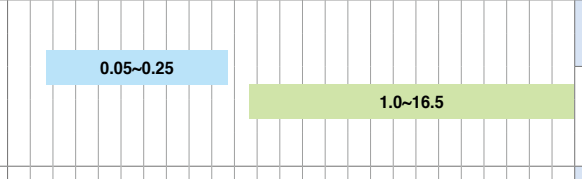
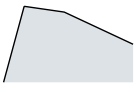
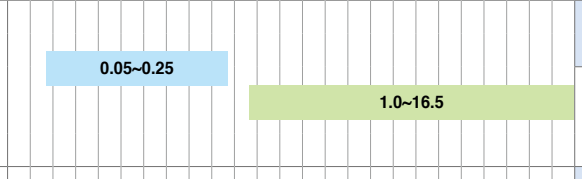
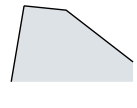
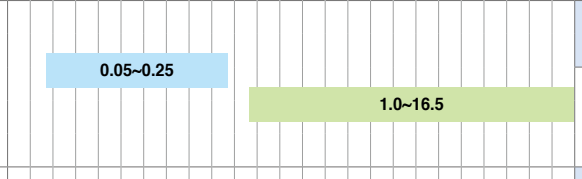
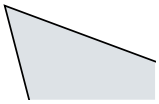
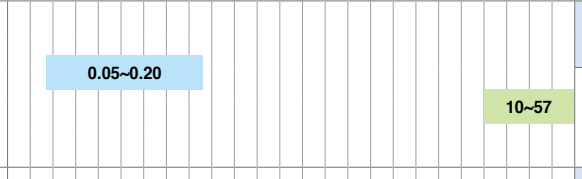
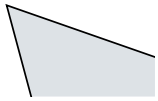
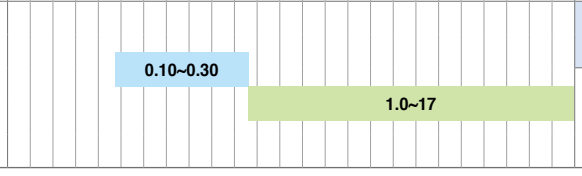
Notice: Application ranges are based on main cutting material

Chip Breakers for Milling

Geometry		Cutting edge	Application range	Features
Future Mill	MM		feed rate fz (mm/t): 0.04 0.063 0.10 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 depth of cut ap (mm): 0.1 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 10.0 11.6 14 0.05~0.30 1.0~5.0	**For General cutting** • Chip breaker design to cover general cutting condition provides wide available application range • Ground type and as sintered type is available
	MR		0.05~0.35 1.5~5.0	**For Roughing** • Strongest cutting edge strength provide stable tool life even in case of severe cutting with heavy intermittent and heavy roughing
	MA		0.10~0.35 0.5~5.0	**For Aluminum machining** • Sharp cutting edge and lubricated top face show excellent chip flow and welding resistance in aluminum machining
Future Mill P - Positive	MA		0.30~0.60 0.3~6.0	**For Aluminum machining** • Excellent surface roughness due to buffed surface in machining aluminum
	ML		0.30~0.50 0.3~3.0	**For Hard-to-cut material machining** • Low cutting resistance and high hardness cutting edges for excellent surface roughness in machining titanium and Inconel
	MF		0.12~0.50 0.3~6.0	**For Light cutting** • Low cutting resistance for light cutting
	MM		0.20~0.70 0.3~6.0	**For General cutting** • Universal purpose for most of milling applications
	None C/B		0.30~0.50 0.3~0.5	**For Machining high hardness steel** • Ideal for machining high hardness mold steel and heat resistant alloy
HFM	MF		0.30~1.0 0.1~0.4	**For Light cutting** • Chip breaker for cutting with low cutting load is optimal for light cutting.
	None C/B		0.30~0.80 0.1~0.4	**For Machining high hardness steel** • Shape with hard cutting edge is optimal for high hardness alloy steel machining.

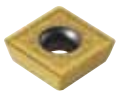
Notice: Application ranges are based on main cutting material

Chip Breakers for Milling

Geometry		Cutting edge	Application range	Features
HFMD	ML			**For Hard-to-cut material machining** • Chip breaker for cutting with low cutting load and and hard cutting edge ensure high qualified machining.
	MF			**For Light cutting** • Chip breaker for cutting with low cutting load is for light cutting.
	MM			**For General cutting** • Shape for general machining with high feed is available for most machining range.
TP2P	MA			**For Aluminum machining** • Sharp cutting edge for aluminum machining ensures good machinability. • Buffed surface realizes chip flow and welding resistance.
	ML			**For Hard-to-cut material machining** • Chip breaker for cutting with low cutting load guarantees long tool life and qualified machining in light cutting and HRSA machining.
	MM			**For General cutting** • Specialized shape for general slotting is applicable in most cutting ranges.
Pro-XL Mill	MA			**For Aluminum machining** • Sharp cutting edge with buffing on the surface for aluminum machining ensures chip flow and welding resistance.
Pro-V Mill	MA			**For Aluminum machining** • Shape for general slotting is applicable in most cutting ranges.

Notice: Application ranges are based on main cutting material

Chip breaker for drilling

	Geometry	Cutting edge	Application range	Features
King Drill	PD 		feed rate fz (mm/t): 0.04 0.063 0.10 0.16 0.25 0.4 0.63 1.0 1.6 2.5 4.0 6.3 depth of cut ap (mm): 30 60 90 120 150 180 210 240 270 300 330 900 0.04~0.20 60~300	**For General cutting** • Chip breaker with strong cutting edge for universal applications with steel, stainless steel, and cast iron
	LD 		0.04~0.15 40~250	**For Light cutting** • Superior chip control in machining of mild steel, forged steel and stainless steel
	RD 		0.04~0.20 60~300	**Reinforced chipping resistance** • Improved central chipping resistance due to reinforced corners of the King Drill central inserts • Excellent cutting performance even in machining where there is frequent corner breakage of central inserts • e.g. Machining heat-treated steel or stainless steel, and high feed machining, etc.
	ND 		0.04~0.10 100~400	**Non-ferrous metals** • Chip breaker with sharp and polished cutting edge for aluminum and Non-ferrous metals. Machining with King Drill ensures good chip flow and resistance to chip welding.

Notice: Application ranges are based on main cutting material

Inserts

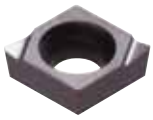
KORLOY constantly tries to expand the range of chip breakers and corner geometries to facilitate customized production that covers many different workpiece materials(P, M, K, S, N) and machining methods(turning, milling and drilling).
We always ensure to enhance customer satisfaction to provide prompt troubleshooting, or higher productivity and machining quality.

- Turning Inserts
- Milling Inserts
- Drilling Inserts
- Inserts for Aluminium Machining
- Multi Functional Tools (Inserts)
- Bearing Inserts
- cBN Inserts
- PCD Inserts

For Turning

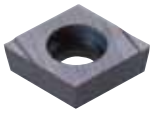
CCET

0301005R/L
030101R/L
030102R/L
030104R/L
0401005R/L
040101R/L
040102R/L
040104R/L



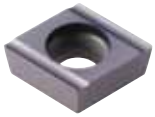
CCET-KF

0602005MFR/L
060201MFR/L
060202MFR/L
09T3005MFR/L
09T301MFR/L
09T302MFR/L



CCET-KM

0602005MFR/L
060201MFR/L
060202MFR/L
09T3005MFR/L
09T301MFR/L
09T302MFR/L



CCGT-AK/AR

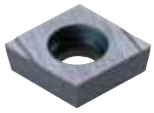
060202 120402
060204 120404
060208 120408
09T302
09T304
09T308

AK

AR

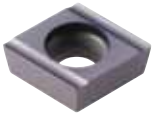
CCGT-KF

0602003R/L
060201R/L
060202R/L
09T3003R/L
09T301R/L
09T302R/L



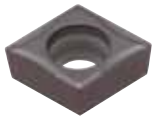
CCGT-KM

0602003R/L
060201R/L
060202R/L
09T3003R/L
09T301R/L
09T302R/L



CCGT-VP1

060201
060202
060204
09T301
09T302
09T304



CCGT-VP1 (Precision class)

060201MFN
060202MFN
060204MFN
09T301MFN
09T302MFN
09T304MFN

CCMT-C25

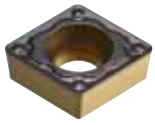
060202 120404
060204 120408
060208 120412
080308
09T302
09T304
09T308

CCMT-HMP

060202 120404
060204 120408
060208 120412
09T302
09T304
09T308

CCMT-MP

060202 120404
060204 120408
060208 120412
09T302
09T304
09T308



CCMT-VF

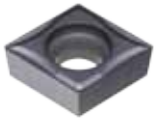
060202
060204
09T302
09T304
09T308
120404

CCMT-VL

060202 120404
060204 120408
060208 120412
09T304
09T308

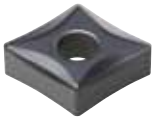
CCMT-VP1

060204
09T304
09T308
120404
120408
120412



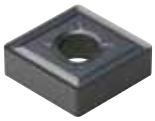
CNGG-VP1

120402
120404
120408



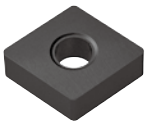
CNGG-VP3

120404
120408
120412



CNMA

090308 160608
120404 160612
120408 160616
120412 190608
120416 190612
190616



CNMG-B25

120404 190604
120408 190608
120412 190612
160608 190616
160612
160616

CNMG-GR

120408 190608
120412 190612
120416 190616
160608 190624
160612 250724
160616 250924

CNMG-HA

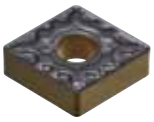
120404
120408
120412

CNMG-HM

090304
120404
120408
120412
190612

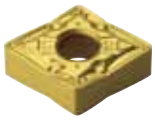
CNMG-LP

090304
090308
120404
120408
120412



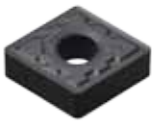
CNMG-LW

120408
120412



CNMG-MK

120404 190608
120408 190612
120412 190616
120416
160608
160612
160616



For Turning

CNMG-MM

090304 160608
090308 160612
090312 160616
090404 190608
090408 190612
090412 190616
120404
120408
120412
120416

CNMG-MP

090304 160608
090308 160612
090312 160616
090404 190608
090408 190612
090412 190616
120404
120408
120412
120416

CNMG-RK

120404 190612
120408 190616
120412
120416
160608
160612
160616

CNMG-RM

120404 190608
120408 190612
120412 190616
120416 250924
160608
160612
160616

CNMG-VB

120404
120408
120412

CNMG-VC

120404
120408
120412

CNMG-VF

090304
090308
120404
120408
120412

CNMG-VL

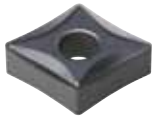
120404
120408
120412

CNMG-VM

090304 160608
090308 160612
120404 190608
120408 190612
120412 190616
120416

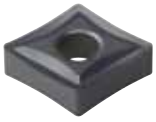
CNMG-VP1

120404
120408



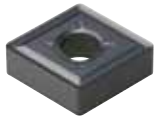
CNMG-VP2

120404
120408
160618
190608
190612
190616



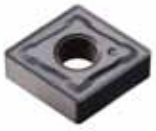
CNMG-VP3

120404 190608
120408 190612
120412 190616
120416
160608
160612
160616



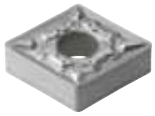
CNMG-VP4

120408
120412
160608
160612
190608
190612



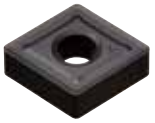
CNMG-VQ

090304
090308
090408
090412
120404
120408
120412



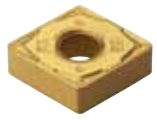
CNMG-VR

120404 160612
120408 160616
120412 190612
120416 190616
120508
120512



CNMG-VW

120404
120408
120412



CNMM-GH

120408 190608
120412 190612
160412 190616
160424 190624
160612 250716
160616 250724
160624 250924
250950

CNMM-GR

120408
120412
190612
190616

CNMM-HA

120408

CNMM-VH

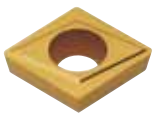
190612
190616
190624
250724
250924

CNMM-VT

190612
190616
190624
250724
250924

CPGT

080202
080204
080208
090302
090304
090308



CPGT-HMP

090308-HMP

CPMT-C25

060204

For Turning

CPMT-VF

080204
080208
090304
090308

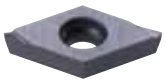
CPMT-VL

080204
080208
090304
090308

DCET-KF

Precision class

0702005MFR/L
070201MFR/L
070202MFR/L
11T3005MFR/L
11T301MFR/L
11T302MFR/L



DCET-KM

Precision class

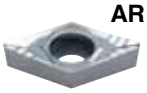
0702005MFR/L
070201MFR/L
070202MFR/L
11T3005MFR/L
11T301MFR/L
11T302MFR/L

DCGT-AK/AR

070202
070204
070208
11T302
11T304
11T308
11T312

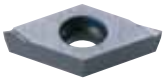
AK

AR



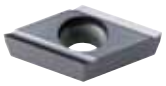
DCGT-KF

0702003R/L
070201R/L
070202R/L
11T3003R/L
11T301R/L
11T302R/L



DCGT-KM

0702003R/L
070201R/L
070202R/L
11T3003R/L
11T301R/L
11T302R/L



DCGT-VP1

070201
070202
070204
11T301
11T302
11T304

DCGT-VP1

Precision class

070201MFN
070202MFN
070204MFN
11T301MFN
11T302MFN
11T304MFN

DCMT-C25

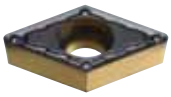
070202
070204
070208
11T302
11T304
11T308

DCMT-HMP

070202
070204
070208
11T302
11T304
11T308

DCMT-MP

070202
070204
070208
11T302
11T304
11T308
11T312

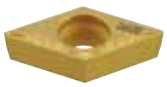


DCMT-VF

070202
070204
11T302
11T304
11T308

DCMT-VL

070202
070204
070208
11T302
11T304
11T308
11T312



DCMT-VP1

070204
11T304
11T308

DNGG-VP1

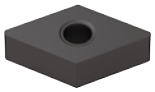
150404
150408
150604
150608

DNGG-VP3

150404
150408
150412
150604
150608
150612

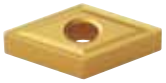
DNMA

110408
150404
150408
150412
150604
150608
150612
190608



DNMG-B25

150402 150602
150404 150604
150408 150608
150412 150612
150425 150625



DNMG-GR

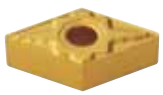
150408
150412
150416
150608
150612
150616

DNMG-HA

150404
150408
150604
150608

DNMG-HM

110404
110408
150404
150408
150604
150608
150612



DNMG-LP

110402 150404
110404 150408
110408 150412
110504 150604
110508 150608
150612

DNMG-LW

150408
150412
150608
150612

For Turning

DNMG-MK

150404
150408
150412
150604
150608
150612

DNMG-MM

110404 150404
110408 150408
110412 150412
110504 150416
110508 150604
110512 150608
150612
150616

DNMG-MP

110404 150404
110408 150408
110412 150412
110504 150416
110508 150604
110512 150608
150612
150616

DNMG-RK

150408
150412
150608
150612

DNMG-RM

150404
150408
150412
150416
150604
150608
150612
150616

DNMG-VB

110404
150404
150408
150412
150604
150608
150612

DNMG-VC

150404
150408
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150612

DNMG-VF

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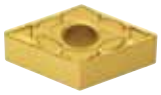

DNMG-VL

110408
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150608
150612

DNMG-VM

110404 150604
110408 150608
110412 150612
150404
150408
150412

DNMG-VP1

150404
150408
150604
150608

DNMG-VP2

150404
150408
150604
150608

DNMG-VP3

150404
150408
150412
150604
150608
150612

DNMG-VP4

150408
150412
150608
150612

DNMG-VQ

110404 150604
110408 150608
110412 150612
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DNMG-VR

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DNMG-VW

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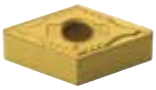
150608

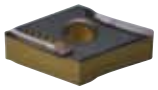


DNMX-SH

150404R/L
150408R/L
150604R/L
150608R/L

DNMX-SR

150404R/L
150408R/L
150604R/L
150608R/L



KNUX-11

160405R/L
160410R/L

KNUX-12

160405R/L
160410R/L

RCGT-AK/AR

0602M0
0803M0
1003M0
10T3M0
1204M0

AK

AR

RCMT-VM

0803M0
10T3M0
1204M0
1606M0

RCMX

1003M0
1204M0
1606M0
2006M0
2507M0
3209M0

For Turning

RNMG-B25

090300
120400
150600
190600
250600
250900
310900

SCGT-AK/AR

09T302
09T304
09T308
120404
120408
120416

SCMT-C25

060204
09T304
09T308
120404
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SCMT-HMP

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09T308
120404
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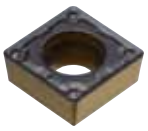
SCMT-MP

09T304
09T308
120404
120408
120412

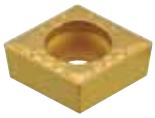


SCMT-VF

09T304

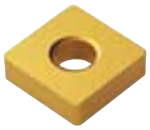
SCMT-VL

09T304
09T308



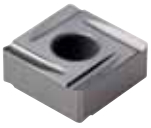
SNGA

090304 150608
090308 150616
120404 190608
120408 190612
120412



SNGG

090304R/L
090308R/L
120404R/L
120408R/L
120412R/L



SNGG-VP3

120404
120408
120412

SNGN

090302 120424
090304 150402
090308 150408
120304 150412
120308 150416
120312 190402
120402 190412
120404 190416
120408 250604
120412 250616

SNGX

120408R

SNMA

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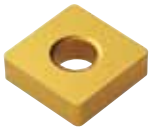
090308 150616
090312 190608
120402 190612
120404 190616
120408 190624
120412 250724
120416 250924
120430



SNMG-B25

090308 190608
120404 190612
120408 190616
120412 250716
120416 250724
120420 250924
150608
150612
150616

SNMG-GR

120404 190608
120408 190612
120412 190616
150608 190624
150612 250724
250924

SNMG-HA

120404
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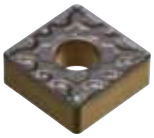
120412

SNMG-HM

120404
120408
120412

SNMG-LP

090308
090408
120404
120408
120412



SNMG-MK

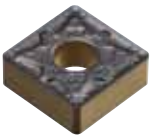
090308 190608
120404 190612
120408 190616
120412
120416
150608
150612
150616

SNMG-MM

090304 150608
090308 150612
090312 150616
090404 190608
090408 190612
120404 190616
120408 250924
120412
120416

SNMG-MP

090304 120404
090308 120408
090312 120412
090404 120416
090408 150608
090412 150612
190608
190612



SNMG-RK

120404
120408
120412
120416
150612
150616
190612
190616

SNMG-RM

120404 190608
120408 190612
120412 190616
120416 190624
150608 250924
150612
150616

SNMG-VB

120404
120408

For Turning

SNMG-VC
120408

SNMG-VF
090304
090308
120404
120408
120412

SNMG-VL
120408

SNMG-VM
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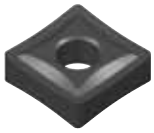
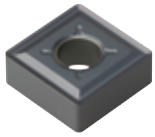
090308
120404
120408
120412
190612
190616

SNMG-VP2
120404
120408
120412



SNMG-VP3
120404 190608
120408 190612
120412 190616
120416
160608
160612
160616



SNMG-VP4
120408
120412
150612
190608
190612
190616

SNMG-VQ
090304
090408
090412
120404
120408

SNMG-VR
120408
120412
120416
190612
190616

SNMM-GH
120408 250724
120412 250924
150612 250932
190612
190616
190624

SNMM-GR
120408
120412
190612
190616

SNMM-VH
190612
190616
190624
250716
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250924

SNMM-VT
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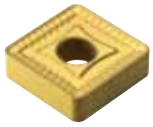
250920
250924



SNMN
120304 150404
120308 150408
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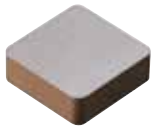
120408
120412

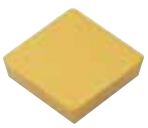
SNMX
120408R

SNUN
120408
120412
190412
120412TN
250724TN

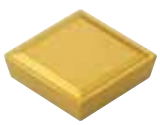


SPGA
060204
090308T
090308T-Z

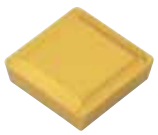
SPGN
070202 120316 150408
070208 120402 150412
090302 120404 150416
090304 120408 150420
090308 120412 190404
120302 120416 190408
120304 120430 190412
120308 120440 190416
120312 150404 190424



SPGR-F
090304
120304



SPGR-M
090308
120308



SPGT
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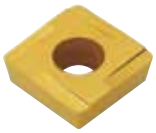
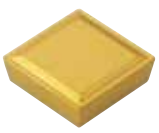
090308R/L



SPMR-F
090304
120304



SPMR-M
090308
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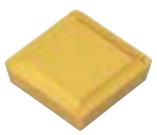
120312

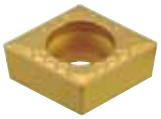


SPMT-VF
090304
090308

For Turning

SPMT-VL

09T304
09T308



SPUN

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120308SN
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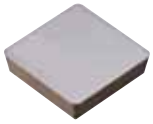
250620



TBGT

060102L
060104L

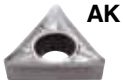
TBMT-VL

060102

TCGT-AK/AR

090202 16T302
090204 16T304
110202 16T308
110204 16T312
110208 16T316
16T325

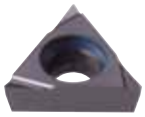
AK



AR

TCGT-KF

0802003R/L
080201R/L
080202R/L



TCGT-VP1

090204
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16T308

TCMT-C25

090204
090208
110202
110204
110208
16T304
16T308

TCMT-HMP

090204 16T304
090208 16T308
110202
110204
110208

TCMT-MP

090204 16T302
090208 16T304
110202 16T308
110204 16T312
110208 220408

TCMT-VF

110202
110204
110208
16T302
16T304

TCMT-VL

090208
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110208
16T304
16T308

TCMT-VP1

16T304
16T308

TNGA

110302 220304
110304 220402
160304 220404
160402 220408
160404 220412
160408 270612
270624

TNGG

110304R/L
160402R/L
160404R/L
160408R/L
220404R/L
220408R/L
220412R/L

TNGG-SC

160402R/L
160404R/L

TNGG-VP3

160404
160408

TNGN

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160408
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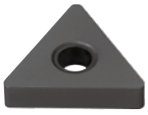

TNMG-B25

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160416 270616
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220408 330924
220412
220416

TNMG-GR

160408 270608
160412 270612
220408 270616
220412 330924
220416

TNMG-HM

110308
160404
160408
160412
220404
220408

TNMG-LP

110304
110308
160404
160408
160412

TNMG-LW

160408
160412

For Turning

TNMG-MK

160404 220404
160408 220408
160412 220412
160416 220416
270612

TNMG-MM

160404 220404
160408 220408
160412 220412
160416 220416

TNMG-MP

110308 220404
160404 220408
160408 220412
160412 220416
160416

TNMG-RK

160408
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TNMG-RM

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220412
220416

TNMG-VB

160404
160408
160412
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220412

TNMG-VC

160404
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160412
220408
220412

TNMG-VF

110304 220404
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160408
160412

TNMG-VL

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160412
220408
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TNMG-VM

110308 220404
160404 220408
160408 220412
160412

TNMG-VP2

160404
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220404
220408

TNMG-VP3

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160412
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220416

TNMG-VP4

160408
160412

TNMG-VQ

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TNMG-VR

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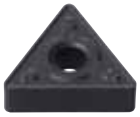

TNMG-VW

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TNMM-GH

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220416
270616
270624
330924

TNMM-GR

220408
220412
220416

TNMN

160408
220408
220412

TNMX

160402R
160404R/L
160408R/L
220404R
220408R

TNMX-SH

160404R/L
160408R/L

TNMX-SR

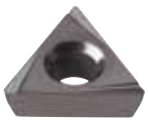
160404R/L
160408R/L

TOEH

060102L
090204L
140304L

TPGH

080202L
080204L
110202L
110204L



For Turning

TPGN

090204 160316
110302 160404
110304 220404
110308 220408
160302 220412
160304 220430
160308 220440
160310 270408
160312 270608

TPGR-F

110302
110304
160304

TPGR-M

110308
160308

TPGT

080202R/L
110302R/L
110304R/L
110308R/L
160404R/L
160408R/L

TPGX

090202L
090204L
090208L
110304L

TPMR-F

090202
090204
110302
110304
110308
160304
160308

TPMR-M

110304
110308
160304
160308
160312
220408

TPMT-MP

090202 160402
090204 160404
110302 160408
110304
110308

TPMT-VF

110304
110308
160404
160408

TPMT-VL

090204
090208
110304
110308
160404
160408

TPUN

090308 220404
110208 220408
110304 220412
110308 330620
160304 160308TN
160308 160312TN
160312 220412TN

VBGT

160404
160408

VBGT-AK/AR

110302
110304
110308
160402
160404
160408
160412

AK

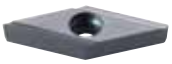
AR

VBGT-KF

1103003R/L
110301R/L
110302R/L

VBGT-KM

1103003R/L
110301R/L
110302R/L
160404R/L



VBGT-VP1

110302
160402
160404

VBMT

160404
160408

VBMT-HMP

110304
110308
160404
160408
160412

VBMT-MP

110302
110304
110308
160402
160404
160408
160412

VBMT-VB

110302
110304
110308
160402
160404
160408
160412

VBMT-VF

160404
160408

VBMT-VL

110302
110304
110308
160402
160404
160408
160412

VBMT-VP1

160402
160404
160408

VCET-KF

Precision class

1103005MFR/L
110301MFR/L
110302MFR/L

For Turning

VCET-KM
Precision class

1103005MFR/L
110301MFR/L
110302MFR/L

VCGT-AK / AR

110301 160402
110302 160404
110304 160408
110308 160412
130302 220516
130304 220525
130308 220530

AK

AR

VCGT-KF

1103003R/L
110301R/L
110302R/L

VCGT-KM

1103003R/L
110301R/L
110302R/L

VCGT-VP1

110301
110302
110304
160404
160408

VCGT-VP1
Precision class

110301MFN
110302MFN
110304MFN
1203008FN
120301FN
120302FN
120304FN

VCGX-VP1
Precision class

120300MFR
120301MFR
120302MFR
120304MFR
120308MFR

VCMT-HMP

160404
160408

VCMT-MP

080202
080204
110302
110304
160404
160408
160412

VCMT-VF

080202
080204
110304
160404

VCMT-VL

080202
080204
160404
160408
160412

VCMT-VP1

160404
160408

VNGG-HA

160408

VNGG-VP3

160404
160408

VNMG-HM

160404
160408
160412

VNMG-MM

160404
160408
160412

VNMG-LP

160404
160408
160412

VNMG-MK

160404
160408
160412

VNMG-MP

160404
160408
160412
160416

VNMG-RM

160404
160408
160412

VNMG-VB

160404
160408
160412

VNMG-VC

160404
160408
160412

VNMG-VF

160402
160404
160408
160412

VNMG-VL

160404
160408
160412

For Turning

VNMG-VM

160404
160408
160412
220404
220408

VNMG-VP3

160404
160408
160412

VNMG-VQ

160404
160408
160412

VPET-KF

Precision class

0802005MFR/L
080201MFR/L
080202MFR/L

VPET-KM

Precision class

0802005MFR/L
080201MFR/L
080202MFR/L

VPGT-VP1

110301
110302
110304

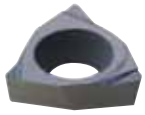
VPGT-VP1

Precision class

110301MFN
110302MFN
110304MFN

WBGT

020102R/L
S30202L
S30204R/L

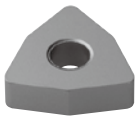


WNGG-VP3

080404

WNMA

060404
060408
060412
080404
080408
080412
080416



WNMG-B25

080404
080408
080412

WNMG-GR

080404
080408
080412
080416

WNMG-HA

060404
060408
080404
080408
080412

WNMG-HM

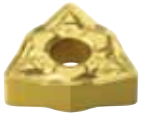
060404
060408
080404
080408
080412

WNMG-LP

06T308
060404
060408
080404
080408
080412

WNMG-LW

060408
060412
080408
080412



WNMG-MK

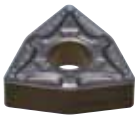
060408
080404
080408
080412
080416

WNMG-MM

06T304 080404
06T308 080408
06T312 080412
060404
060408
060412

WNMG-MP

06T304 080404
06T308 080408
060404 080412
060408 080416
060412



WNMG-RK

060408
060412
080404
080408
080412
080416

WNMG-RM

060404
060408
060412
080404
080408
080412

WNMG-VB

080404
080408

WNMG-VC

080404
080408
080412

WNMG-VF

060404
060408
080404
080408
080412

For Turning

WNMG-VL

060404
080404
080408

WNMG-VM

060404
060408
060412
080404
080408
080412
080416

WNMG-VP2

080404
080408
080412

WNMG-VP3

060408
060412
080404
080408
080412
130612

WNMG-VP4

080408
080412

WNMG-VQ

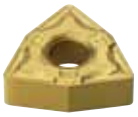
060404
060408
060412
080404
080408
080412

WNMG-VR

060408
080404
080408
080412
080416

WNMG-VW

060404
060408
080404
080408
080412



WNMM-B25

100608
130612

WNMX-SH

080404R/L
080408R/L

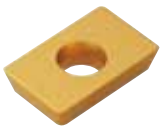
WNMX-SR

080404R/L
080408R/L

For Milling

ADKA

150308R
150308SR
150308TR



ADKT-ML

170608PESR

ADKT-MM

170604PESR
170608PESR
170616PESR
170620PESR

ADLT

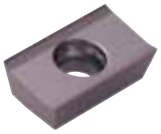
150308R
150308SR
150308TR

APKT

1604PDSR

APKT-MA

1604PDFR
160416FR



APKT-MA2

1604PDFR
160416FR
160432FR

APKT-MA3

1604PDFR
160420FR

APKT-MF

1604PDSR

APKT-MM

1604PDSR

APKT-MM1

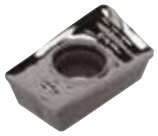
160432R

APLT

070304R

APMT-MA

0602PDFR
060208PDFR
0903PDFR
090308PDFR
11T3PDFR
11T308PDFR
160404PDFR
1604PDFR
180604PDFR
1806PDFR
180612PDFR
180616PDFR
180620PDFR
180624PDFR
180630R

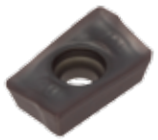


APMT-MF

11T3PDSR
1604PDSR
1806PDSR
180612PDSR

APMT-ML

0903PDER
090308PDER
11T3PDER
11T308PDER
160404PDER
1604PDER
180604PDER
1806PDER
180612PDER
180616PDER
180620PDER
180624PDER
180630R



APMT-MM

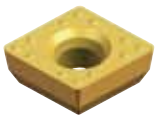
060202PDSR
0602PDSR
060208PDSR
060212R
060216R
0903PDSR
090308PDSR
090312R
090316R
090320R
090331R
090332R
11T3PDSR
11T308PDSR
11T312PDSR
11T316R
11T318R
11T324R
1604PDSR
160410PDSR
160416PDSR
160424R
160430R
160432R
160450R
160464R
1806PDSR
180612PDSR
180616PDSR
180620PDSR
180624PDSR
180630R
180632R
180640R
180648R
180650R
180660R
180664R

CNHQ

1005-C0.5
1305-C0.5
1606-C0.5

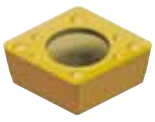
CPMH-MM

120408



CPMT-MM

060204
080308
09T308



HECN

090408FN
090408SN
090408TN
110412FN
110412TN

For Milling

HPEN

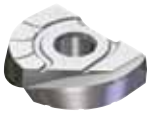
090408FN
090408SN
090408EN
110412FN

HPEN-WC

090408
110412

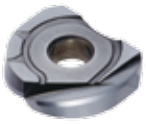
LBH

080 300
100 320
120 330
160
200
250



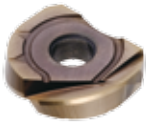
LBH-KF

080 200
100 210
120 250
130 300
160 320
170 330



LBH-KH

080 200
100 210
120 250
130 260
160 300
170 320
330



LBS

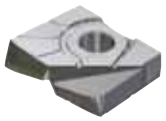
080 200
090 210
100 250
110 260
120 300
130 310
160 320
170

LCF

160-D90
200-D90
250-D90

LFH

100
120
160
200
250
300
320

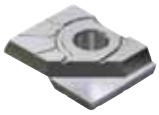


LRH / LR

100-R05 100-R10 100-R20 110-R05 120-R05 120-R10 120-R20 130-R05
130-R10 160-R05 160-R10 160-R20 160-R30 170-R05 170-R10 200-R05
200-R10 200-R20 200-R30 210-R05 250-R05 250-R10 250-R20 250-R30
260-R05 260-R10 300-R10 300-R20 300-R30 310-R05 320-R10 320-R20
320-R30 330-R05 330-R10 330-R20 330-R30

LRH

Special type



LR

LDET

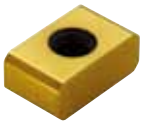
650540PPFR-MA
650550PPFR-MA

LNCS

1907-C1.5-WC
1907-R3.0-WC

LNE

324-R0.8
324-C1.0



LNEX-MA

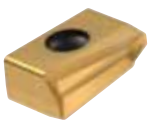
100605PNR
151004PNR
151008PNR

LNKT-MA

080404PNR-MA
080408PNR-MA
140608PNR-MA
170704PNR-MA
170708PNR-MA
170712PNR-MA
170716PNR-MA
170720PNR-MA

LNKT-ML

080404PNR-ML
080408PNR-ML
140608PNR-ML
170704PNR-ML
170708PNR-ML
170712PNR-ML
170716PNR-ML
170720PNR-ML

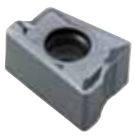


LNKT-MM

080404PNR-MM
080408PNR-MM
140608PNR-MM
170704PNR-MM
170708PNR-MM
170712PNR-MM
170716PNR-MM
170720PNR-MM

LNM(E)X-MF

100605PNR
100608PNR
151004PNR
151008PNR
151016PNR



LNM(E)X-MM

100605PNR
100608PNR
100605PNL
151004PNR
151008PNR
151016PNR
151008PNL

LNMX-MF

060310

LNMX-ML

060310

LNMX-MM

060310

LPEW

040210R
040220R

For Milling

LPMT-MF

040210R
040220R

LPMW

040210R
040220R

LXET-MA

250404PEFR-32
2504PEFR-32
250412PEFR-32
250416PEFR-32
250404PEFR-40
2504PEFR-40
250412PEFR-40
250416PEFR-40
340504PEFR-50
3405PEFR-50
340512PEFR-50
340516PEFR-50
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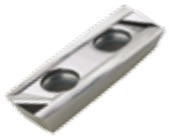
3405PEFR-63
340512PEFR-63
340516PEFR-63



LXET-ML

250404PEER-32
2504PEER-32
250412PEER-32
250416PEER-32
250404PEER-40
2504PEER-40
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250416PEER-40
340504PEER-50
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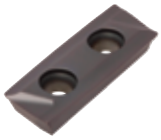
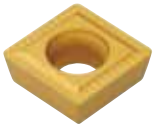
340512PEER-63
340516PEER-63



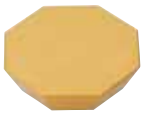
MPMT

090308
120408



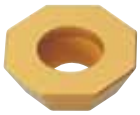
OFCN

0704SN
0704FN
070408SN
070408FN
070408TN



OFCW

05T3SN
05T3FN
05T308FN



OFKR-MA

0704FN
0704EN

OFKR-MF

0704SN
070408SN

OFKR-MM

0704SN
070408SN

OFKT-MA

05T3FN
05T3EN
0704FN
0704EN

OFKT-MF

05T3SN
05T308SN

OFKT-MM

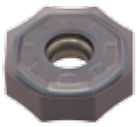
05T3SN
05T308SN
0704SN

ONHX-MF

060608
080608
0606ANN
0806ANN

ONHX-ML

060608
080608



ONHX-MM

060608
080608
0606ANN
0806ANN

ONHX-MA

060608
080608

ONHX-W

060608
080608

ONMX-MF

060608
080608
0606ANN
0806ANN

ONMX-MM

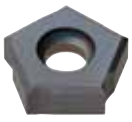
060608
080608
0606ANN
0806ANN

PNEJ

1223N 1260N
1225N 1265N
1230N 1270N
1235N 1275N
1240N 1285N
1245N
1250N
1255N

PNEJ-C

1223N-C03 1260N-C05
1230N-C03 1265N-C05
1235N-C03 1270N-C05
1240N-C05 1275N-C05
1245N-C05
1250N-C05
1255N-C05



For Milling

RC

16
20
25
30
32

RDCT-MA

10T3M0
1204M0

RDHW

0501M0F 0803M0F
0501M0E 0803M0E
0501M0S 0803M0S
06T1M0F 1605M0F
06T1M0E 1605M0E
06T1M0S 1605M0S
0702M0F 2006M0F
0702M0E 2006M0E
0702M0S 2006M0S

RDKT-MF

10T3M0
1204M0
1605M0

RDKT-ML

1605M0

RDKT-MM

10T3M0
1204M0
1605M0
2006M0

RDKW

0501M0E
06T1M0E
0702M0E
0803M0E

REKR-MM

170400

RPCT-MA

10T3M0
1204M0
1606M0
2007M0

RPET-ML

0803M0E
103TM0E
1204M0E
1606M0E
2007M0E

RPMT-MF

0803M0E
10T3M0E
1204M0E
1606M0E
2007M0E

RPMT-MM

0803M0S
10T3M0S
1204M0S
1606M0S
2007M0S

RPMW

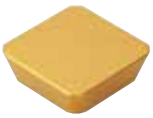
0803M0E1
10T3M0E1
1204M0S1
1204M0S2
1606M0S1
2007M0S1

SCKN

220715DDSR-MM
280920DDSR-MM

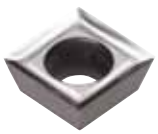
SDCN

42M
42M-G
42MT
42MT-RH
42MT-S20
53M
53M-G
53MT
53MT-RH
53MT-S20
1203AEEN
1203AEEN-RH
1203AESN
1203AESN-RH
1504AEEN
1504AEEN-RH
1504AESN
1504AESN-RH



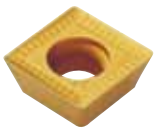
SDET-MA

09M402R
09M404R
09M405R
130504R



SDET-MF

09M405R
130508R

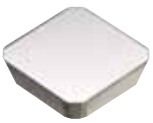


SDET-MM

09M405R
130508R

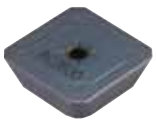
SDKN-CM

42MT



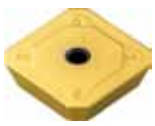
SDKN-MU

1203AESN
1504AESN



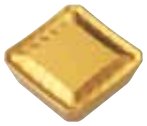
SDKN-SU

1203AESN
1504AESN



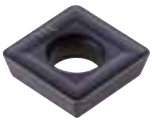
SDKR-MX

1203AESN
1203AETN
1203AEN
1504AESN
1504AETN
1504AEN



SDMT-MM

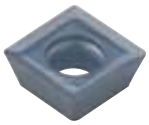
090308



For Milling

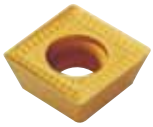
SDXT-MA

09M405R
130508R



SDXT-MF

09M403R
09M403L
09M404R
09M404L
09M405R
09M405L
130508R



SDXT-MM

09M405R
09M405L
130508R
130508L
130538

SECA

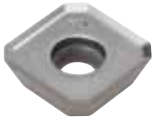
1204AFSN
1204AFTN
1204AFFN
1204AFEN
1504AFSN
1504AFTN
1504AFFN

SECN

1203AFFN
1203AFTN
1203AFEN
1203AFSN
1203AFEN-RH
1203AFSN-RH
1203AFTN-S20
1504AFFN
1504AFTN
1504AFEN
1504AFSN
1504AFEN-RH
1504AFSN-RH
1504AFTN-S20

SEET-MA

0903AGFN
14M4AGFN



SEET-MF

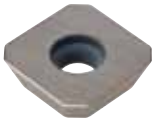
0903AGSN
14M4AGSN

SEET-MM

0903AGSN
14M4AGSN

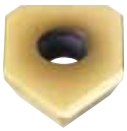
SEEW

0903AGTN
14M4AGTN



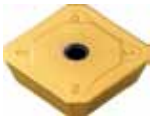
SEEW-W

14M4AGFN
14M4AGSN
14M4AGTN



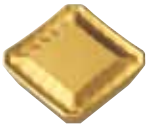
SEKN-SU

1203AFSN
1504AFSN



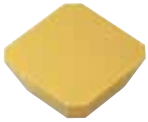
SEKR-MX

1203AFSN
1504AFSN



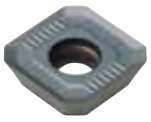
SEMN

1204AZ



SEXT-MF

0903AGSN
14M4AGSN



SEXT-MM

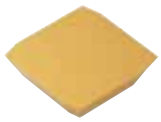
0903AGSN
14M4AGSN

SEXT-MR

0903AGSN
14M4AGSN

SFCN

1203EFR



SNC(M)F-MF

1206ANN
1507ANN

SNC(M)F-MF

1206ENN
1507ENN

SNC(M)F-MF

1206QNN

SNC(M)F-MM

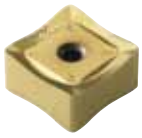
1206ANN
1507ANN

SNC(M)F-MM

1206ENN
1507ENN

SNC(M)F-MM

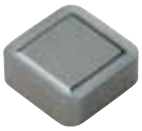
1206QNN



For Milling

SNCN
1204ENN
1504ENN

SNEF
435
535

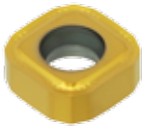


SNEU-MF
120420

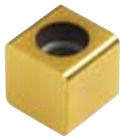
SNEU-MF
1204ANN

SNEU-TBW
1204

SNEU-WMF
1204R

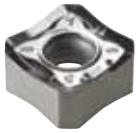


SNEX
101010
1010ZNN

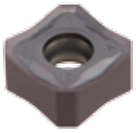


SNEX-CU1
101010
1010ZNN
121212
1212ZNN

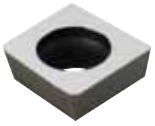
SNEX-MA
1206ANN
1206ENN
1206QNN
120612



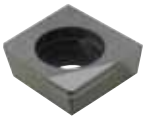
SNEX-ML
1206ANN
1206ENN
1206QNN
120612
1507ANN
1507ENN



SNEW
09T3ADFR

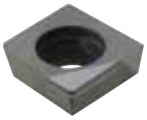


SNEW-NAF
09T3ADTR-NAF
09T3ADTR-NAW



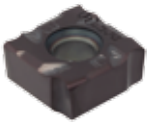
• NAW: Wiper insert

SNEW-XAF
09T3ADTR-XAF
09T3ADTR-XAW



• NAW: Wiper insert

SNHT-WX
1102308R/L
110308R/L
120308R/L
1203508R/L
120408R/L
1204508R/L
120508R/L
1205408R/L
120608R/L
1206508R/L
120708R/L
1207508R/L



SNKN
1204ENN
1504ENN

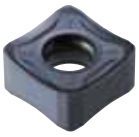
SNM(E)X-MF
1206ANN
1507ANN

SNM(E)X-MF
1206ENN
1507ENN

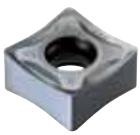
SNM(E)X-MF
1206QNN
120612

SNM(E)X-MM
1206ANN
1507ANN

SNM(E)X-MM
1206ENN
1507ENN



SNM(E)X-MM
1206QNN
120612



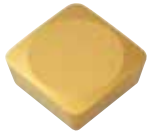
SNEX-W
1206ANN

SPCN
1203EDR
1203EDR-RH
1203EDL
1203EDR-G
1203EDR-RN
1203EDER-RH
1203EDSR-RH
1203EDTR-RH
1203EDR-S20
150412T
1504EDR
1504EDR-RH
1504EDSR
1504EDL
1504EDR-G
1504EDR-RN
1504EDER-RH
1504EDSR-RH
1504EDTR-RH
1504EDR-S20

For Milling

SPEN-WC

120416
150412
150416
150420
190424

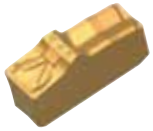


SPEX

1203EDR-1
1203EDL-1
1504EDR-1
1504EDL-1

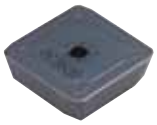
SPFN

200-N
300-N
400-N



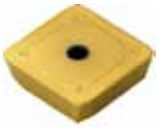
SPKN-MU

1203EDSR
1504EDSR



SPKN-SU

1203EDSR
1203EDSL
1504EDSR
1504EDSL

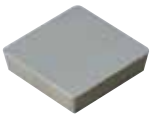


SPKR-MX

1203EDSR
1203EDSL
1504EDR
1504EDSR

SPMN

120308

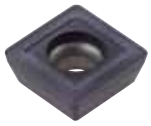


SPMT

060304

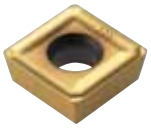
SPMT-KC

110408



SPMT-MM

120408-MM
120508-MMN



TEC(E)N

TECN
22R
22TR
32R
32R-G
32TR
32TR-S20
43R-G
43TR-Z
43TR

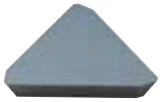
TEEN
32TR

TEEN

43R-Z
43TR-Z
43TR-ZH
43R
43R-G
43TR
43TR-S20

TFCN

2203PFR
2203PFL



TNMX-NM

2710AZNR
2710AZNL
3012PNR

TPCN

1103PPN
1103PPTN
1603PDR
1603PPN
1603PPR
1603PPR-RH
1603PPR-G
1603PPSR
1603PPTN
1603PPTR
1603PPR-RH
1603PDER-RH
1603PDSR-RH
1603PDR-S20
1603PDR-RN
2204PDR
2204PDR-RH
2204PDR-RN
2204PDR-G
2204PDL
2204PDSR
2204PDTR
2204PPN
2204PPTN
2204PDR-RH
2204PDER-RH
2204PDSR-RH
2204PDR-S20

TPKN-MU

220530N

TPKN-SU

1603PDSR
1603PDSL
2204PDSR
2204PDSL

TPKR-MX

1603PDSN
1603PDSR
1603PPR
1603PPSN
1603PPSR
2204PDR
2204PDSR
2204PPR

TWX-KC

16R
22R

VCKT-MA

220530N

VDKT-MA

11T210N
11T220N

WDKT-MH

080316ZDSR
10T320ZDSR
130520ZDSR
150625ZDSR

WNGX-MA

040304PNFR
040308PNFR
040312PNFR
040316PNFR
080604PNFR
080608PNFR
080612PNFR
080616PNFR
080620PNFR

For Milling

WNGX-ML

040304PNER
040308PNER
040312PNER
040316PNER
080604PNER
080608PNER
080612PNER
080616PNER
080620PNER

WNGX-MM

040304PNSR
040308PNSR
040312PNSR
040316PNSR
080604PNSR
080608PNSR
080612PNSR
080616PNSR
080620PNSR

WNMX-MF

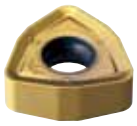
060312ZNN
09T316ZNN
130520ZNN
160720ZNN

WNMX-ML

060312ZNN
09T316ZNN
130520ZNN
160720ZNN

WNMX-MM

060312ZNN
09T316ZNN
130520ZNN
160720ZNN



XCET-KC

310404ER

XDET-MA

190504PEFR
190508PEFR
190512PEFR
190516PEFR
190520PEFR
190524PEFR
190530PEFR
190532PEFR
190540PEFR
190550PEFR

XEKT-MA

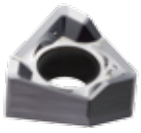
19M504FR 250604FR
19M508FR 250608FR
19M512FR 250612FR
19M516FR 250616FR
19M518FR 250620FR
19M520FR 250630FR
19M530FR 250632FR
19M532FR 250640FR
19M540FR 250650FR
19M550FR

XEKT-ML

19M504FR 250604FR
19M508FR 250608FR
19M512FR 250612FR
19M516FR 250616FR
19M518FR 250620FR
19M520FR 250630FR
19M530FR 250632FR
19M532FR 250640FR
19M540FR 250650FR
19M550FR

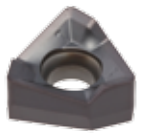
XNCT-MA

080504PNFR
080508PNFR
080512PNFR
080520PNFR
120608PNFR



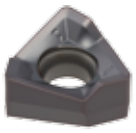
XNKT-ML

060405PNER
060408PNER
080504PNER
080508PNER
080512PNER
080516PNER
080520PNER
120608PNER
120612PNER
120616PNER
120620PNER



XNKT-MM

060405PNSR
060408PNSR
080504PNSR
080508PNSR
080512PNSR
080516PNSR
080520PNSR
120604PNSR
120608PNSR
120612PNSR
120616PNSR
120620PNSR



XPMT-MM

0802ER
1003ER
13T3ER
1604ER
1805ER
2006ER
2507ER

ZDMT-R-MM

080310R
110312.5R
130416R

ZPET-MM Internal

080M 140M
090M 150M
100M 160M
110M 200M
125M 250M
130M

ZPET-MM External

080S 140S
090S 150S
100S 160S
110S 200S
125S 250S
130S

ZPMT-MM

1504PPSR-MM
1505PPSR-MMN

ZPMT-R-MM

160520R
160525R
160531.5R

ZPMT-R-MR

160525R

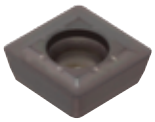
For Drilling

SPET-ND

040204 11T308
050204 130410
060205 15M510
07T208 180510
090308

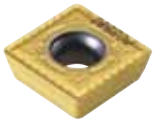
SPMT-LD

060205
07T208
090308
11T308
130410
15M510
180510



SPMT-PD

040204 11T308
050204 130410
060205 15M510
07T208 180510
090308



TPDB Plus

TPD100B ~ 109B
TPD110B ~ 119B
TPD120B ~ 129B
TPD130B ~ 139B
TPD140B ~ 149B
TPD150B ~ 159B
TPD160B ~ 169B
TPD170B ~ 179B
TPD180B ~ 189B
TPD190B ~ 199B
TPD200B ~ 209B
TPD210B ~ 219B
TPD220B ~ 229B
TPD230B ~ 239B
TPD240B ~ 249B
TPD250B ~ 259B
TPD260B ~ 269B
TPD270B ~ 279B
TPD280B ~ 289B
TPD290B ~ 299B
TPD300B ~ 309B
TPD310B ~ 319B
TPD320B ~ 329B

TPDB-H

TPD140B-H ~ 149B-H
TPD150B-H ~ 159B-H
TPD160B-H ~ 169B-H
TPD170B-H ~ 179B-H
TPD180B-H ~ 189B-H
TPD190B-H ~ 199B-H
TPD200B-H ~ 209B-H
TPD210B-H ~ 219B-H
TPD220B-H ~ 229B-H
TPD230B-H ~ 239B-H
TPD240B-H ~ 249B-H
TPD250B-H ~ 259B-H
TPD260B-H ~ 269B-H
TPD270B-H ~ 279B-H
TPD280B-H ~ 289B-H
TPD290B-H ~ 299B-H
TPD300B-H ~ 309B-H

TPD-CP

TPDC12□□
TPDC13□□
TPDC14□□
TPDC15□□
TPDC16□□
TPDC17□□
TPDC18□□
TPDC19□□
TPDC20□□
TPDC21□□
TPDC22□□
TPDC23□□
TPDC24□□
TPDC25□□
TPDC26□□
TPDC27□□
TPDC28□□
TPDC29□□
TPDC30□□

TPD-CM

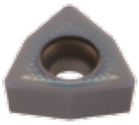
TPDC12□□
TPDC13□□
TPDC14□□
TPDC15□□
TPDC16□□
TPDC17□□
TPDC18□□
TPDC19□□
TPDC20□□
TPDC21□□
TPDC22□□
TPDC23□□
TPDC24□□
TPDC25□□
TPDC26□□
TPDC27□□
TPDC28□□
TPDC29□□
TPDC30□□

TPD-CN

TPDC12□□
TPDC13□□
TPDC14□□
TPDC15□□
TPDC16□□
TPDC17□□
TPDC18□□
TPDC19□□
TPDC20□□
TPDC21□□
TPDC22□□
TPDC23□□
TPDC24□□
TPDC25□□
TPDC26□□
TPDC27□□
TPDC28□□
TPDC29□□
TPDC30□□

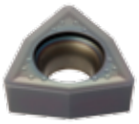
WCMT-C20N

030208
040208
050308
06T308
080408
080412



WCMT-C21N

030204
040204
040208
050308
06T308
080408

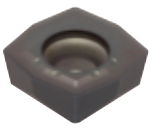


XOET-ND

040204
050204
060204
07T205
090305
11T306
130406
15M508
180508

XOMT-LD

060204
07T205
090305
11T306
130406
15M508
180508



XOMT-PD

040204
050204
060204
07T205
090305
11T306
130406
15M508
180508

XOMT-RD

07T207
090308
11T309
130410
15M511
180512

Inserts for Aluminium Machining

For Turning

CCGT-AK

060202 120402
060204 120404
060208 120408
09T302
09T304
09T308

CCGT-AR

060202 120402
060204 120404
060208 120408
09T302 120412
09T304
09T308

DCGT-AK

070202
070204
070208
11T302
11T304
11T308
11T312

DCGT-AR

070202
070204
070208
11T302
11T304
11T308
11T312

RCGT-AK

0602M0
0803M0
1003M0
10T3M
1204M0

RCGT-AR

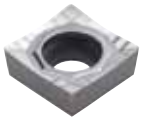
0602M0
0803M0
1003M0
10T3M
1204M0

SCGT-AK

09T302
09T304
09T308
120404
120408
120416

SCGT-AR

09T302
09T304
09T308
120404
120408
120416



TCGT-AK

090202 16T302
090204 16T304
110202 16T308
110204 16T312
110208 16T316
16T325

TCGT-AR

090202 16T302
090204 16T304
110202 16T308
110204 16T312
110208 16T316
16T325

VBGT-AK

110302
110304
110308
160402
160404
160408
160412

VBGT-AR

110302
110304
110308
160402
160404
160408
160412

VCGT-AK

110301 160402
110302 160404
110304 160408
110308 160412
130302 220516
130304 220525
130308 220530

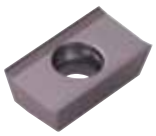
VCGT-AR

110301 160402
110302 160404
110304 160408
110308 160412
130302 220516
130304 220525
130308 220530

For Milling

APKT-MA

1604PDFR
160416FR



APKT-MA2

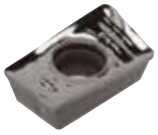
1604PDFR
160416FR
160432FR

APKT-MA3

1604PDFR
160420FR

APMT-MA

0602PDFR
060208PDFR
0903PDFR
090308PDFR
11T3PDFR
11T308PDFR
160404PDFR
1604PDFR
180604PDFR
1806PDFR
180612PDFR
180616PDFR
180620PDFR
180624PDFR
180630R



CDEW-XCF

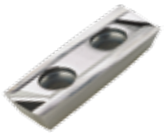
1204R
1204L

LNEX-MA

100605PNR
151004PNR
151008PNR

LXET-MA

250404PEFR-32
2504PEFR-32
250412PEFR-32
250416PEFR-32
250404PEFR-40
2504PEFR-40
250412PEFR-40
250416PEFR-40
340504PEFR-50
3405PEFR-50
340512PEFR-50
340516PEFR-50
340504PEFR-63
3405PEFR-63
340512PEFR-63
340516PEFR-63



OFKR-MA

0704FN
0704EN

OFKT-MA

05T3FN
05T3EN
0704FN
0704EN

ONHX-MA

060608
080608

RDCT-MA

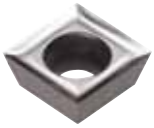
10T3M0
1204MO

RPCT-MA

10T3M0
1204M0
1606M0
2007M0

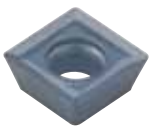
SDET-MA

09M402R
09M404R
09M405R
130504R



SDXT-MA

09M405R
130508R



SEET-MA

0903AGFN
14M4AGFN

SNEX-MA

1206ANN
1206ENN
1206QNN
120612

VCKT-MA

220530N

VDKT-MA

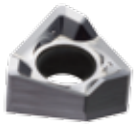
11T210N
11T220N

XEKT-MA

19M504FR
19M508FR
19M512FR
19M516FR
19M518FR
19M520FR
19M530FR
19M532FR
19M540FR
19M550FR
250604FR
250608FR
250612FR
250616FR
250620FR
250630FR
250632FR
250640FR
250650FR

XNCT-MA

080508PNFR



Inserts for Aluminium Machining

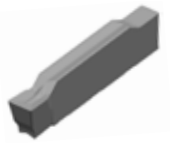
For Grooving

KGGN-A

200-02
300-02
400-04
500-04
600-04

KGGN-A Type singular

200S-02
300S-02
400S-04
500S-04
600S-04



KRGN-A

300
400
500
600
800

MGGN-A

300-02 500-02
300-04 500-04
300-08 500-08
400-02
400-04
400-08

MRGN-A

300
400
500
600
800

MRGN-A

6N
8N

MRGN-A5

6N
8N

MRGN-AM

6N
8N

MRGN-AP

6N
8N

MVGN

8N-A-R1.2
8N-A-R1.6

For Drilling

SPET-ND

040204 11T308
050204 130410
060205 15M510
07T208 180510
090308

XOET-ND

040204 11T306
050204 130406
060204 15M508
07T205 180508
090305

KGT

KGGN-A

Holder
KGEHR/L
KGEVR/L
KGFHR/L
KGFVR/L

Width
: 2.0 ~ 6.0mm

KGGN-A Type singular

Holder
KGTB

Width
: 2.0 ~ 6.0mm

KGGN-B

Holder
KGEHR/L
KGEVR/L
KGFHR/L
KGFVR/L

Width
: 2.65 ~ 8.0mm

KGGN-R

Holder
KGEHR/L
KGEVR/L
KGFHR/L
KGFVR/L

Width
: 2.0 ~ 8.0mm

KGGN-R Type singular

Holder
KGTB

Width
: 2.0 ~ 8.0mm

KGMI-T

Holder
KGIVR/L

Width
: 2.0 ~ 4.0mm

KGML-LP

Holder
KGEHR/L

Width
: 2.0 ~ 4.0mm

KGML-RP

Holder
KGEHR/L

Width
: 2.0 ~ 4.0mm

KGMN-L

Holder
KGEHR/L
KGEVR/L
KGFHR/L
KGFVR/L
KGIVR/L

Width
: 2.0 ~ 6.0mm

KGMN-R

Holder
KGEHR/L
KGEVR/L
KGFHR/L
KGFVR/L
KGIVR/L

Width
: 1.5 ~ 8.0mm

KGMN-T

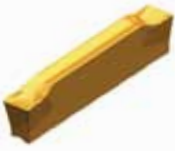
Holder
KGEHR/L
KGEVR/L
KGFHR/L
KGFVR/L
KGIVR/L

Width
: 1.5 ~ 8.0mm

KGMR-LP

Holder
KGEHR/L

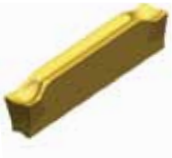
Width
: 2.0 ~ 5.0mm



KGMR-RP

Holder
KGEHR/L

Width
: 2.0 ~ 5.0mm



KRGN-A

Holder
KGEHR/L
KGEVR/L
KGEUR/L
KGFHR/L
KGFVR/L
KGIUR/L

Width
: 3.0 ~ 8.0mm

KRMI-C

Holder
KGIVR/L

Width
: 2.0 ~ 4.0mm

KRMN-C

Holder
KGEHR/L
KGEVR/L
KGEUR/L
KGFHR/L
KGFVR/L
KGIVR/L
KGIUR/L

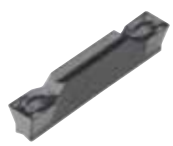
Width
: 2.0 ~ 8.0mm

MGT

MFMN

Holder
MGFHR/L
MGFVR/L

Width
: 3.0mm



MGGN-A

Holder
MGEHR/L
MGEVR/L
MGIVR/L

Width
: 3.0 ~ 5.0mm

MGGN-M

Holder
MGEHR/L
MGEVR/L
MGIVR/L

Width
: 3.0 ~ 6.0mm

MGMN-G

Holder
MGEHR/L
MGEVR/L
MGIVR/L
MGFHR/L
MGFVR/L

Width
: 1.5 ~ 6.0mm

MGMN-L

Holder
MGEHR/L
MGEVR/L
MGIVR/L
MGFHR/L
MGFVR/L

Width
: 2.0 ~ 5.0mm

MGMN-M

Holder
MGEHR/L
MGEVR/L
MGIVR/L
MGFHR/L
MGFVR/L

Width
: 2.0 ~ 8.0mm

MGMN-R

Holder
MGEHR/L
MGEVR/L
MGIVR/L
MGFHR/L
MGFVR/L

Width
: 1.5 ~ 6.0mm

MGMN-T

Holder
MGEHR/L
MGEVR/L
MGIVR/L
MGFHR/L
MGFVR/L

Width
: 1.5 ~ 6.0mm

MGT

MGMR/L-PS

Holder
MGEHR/L

Width
: 3.0 ~ 5.0mm

MGMR/L-PT

Holder
MGEHR/L

Width
: 2.0 ~ 5.0mm

MRGN-A

Holder
MGEHR/L
MGEUR/L
MGEVR/L
MGIUR/L
MGIVR/L

Width
: 4.0 ~ 5.0mm

MRMN-M

Holder
MGEHR/L
MGEUR/L
MGEVR/L
MGIUR/L
MGIVR/L

Width
: 2.0 ~ 8.0mm

MVGN

Holder
MGEXR/L
MGIUR/L-MV

K Notch

KNG

Holder
KNSR

Width
: 0.79 ~ 6.35mm

KNGP

Holder
KNSR

Width
: 0.79 ~ 6.35mm

KNR

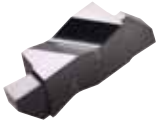
Holder
KNSR

Width
: 1.57 ~ 6.35mm

KNRP

Holder
KNSR

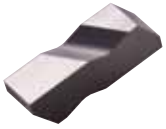
Width
: 1.57 ~ 6.35mm



KNB

Holder
KNSR

Width
: 3.81 ~ 6.48mm



KNT

Holder
KNSR

Width
: 3.81 ~ 6.48mm

For Parting

KSP

200-020-N
300-020-N
400-025-N
500-025-N
600-035-N

Holder
KSPB

SP

160 300L 600
180 400 600R
200 400R 600L
200R 400L 800
200L 500 900
300 500R
300R 500L

Holder
SPB/SPB-S, SPH/SPH-S

For Grooving

ESB

Holder
EH

Width
: 9.525mm

DB

Holder
DBH

Width
: 3.0 ~ 8.0mm

DC

Holder
DBH

Width
: 3.0 ~ 5.0mm

FGD/FGM/FMM

Holder
FGHH
FGVH

Width
: 3.0 ~ 5.0mm

For Forming

BF

Holder
GFT, GFIP

POB

Holder
PH

Width
: 3.0 ~ 5.0mm

For Grooving

GO

Holder
GH

Width
: 2.5 ~ 4.1mm

GS

Holder
GH

Width
: 1.23 ~ 4.28mm

GW

Holder
GFT
GFIP

Width
: 1.1~8.0mm

IG

Holder
IGH

Width
: 1.25 ~ 2.8mm

GR

Holder
GFT
GFIK

Width
: 2.0 ~ 8.0mm

TB

Holder
TBH

Width
TB3 : 1.25 ~ 4.3mm
TB4 : 1.25 ~ 4.5mm

TB-M

Holder
TBH

Width
TB4-M : 1.5 ~ 4.5mm
TB5-M : 0.5 ~ 3.18mm

For Micro Boring Tools

NFTF, NFTG, NFTT

Holder : NFTIH
※ for Internal Grooving, Threading and Copy machining

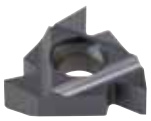
For Threading

< Standard >

- Partial profile 60°
- Partial Profile 55°
- ISO Metric (Full Profile)
- American UN (Full Profile)
  UN, UNC, UNF, UNEF
- Whitworth (Full Profile)
  BSW, BSF, BSP
- British Standard Pipe thread
  (Full Profile) BSPT
- National Pipe Thread
  (Full Profile) NPT
- National Pipe Threads-Dryseal
  (Full Profile) NPTF
- Round DIN 405
- Trapez DIN 103
- American ACME
- Stub ACME
- UNJ
- American Buttress
- British Buttress
- Metric Buttress-Sagengewinde
- API
- API Buttress Casing
- API Round Casing & Tubing
- EL-Extreme Line

ER

Holder
ER(L)H / ER(L)H-C



ERM

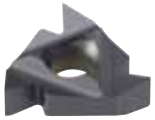
Holder
ER(L)H / ER(L)H-C

ERM-U

Holder
ER(L)H / ER(L)H-C

IR

Holder
IR(L)H / IR(L)H-C



IRM

Holder
IR(L)H / IR(L)H-C

IRM-U

Holder
IR(L)H / IR(L)H-C

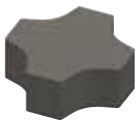
Bearing Inserts

For R-Chamfering

MC

0906 1212 1525
0910 1215 1530
1206 1220 1540
1210 1225

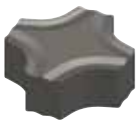
Holder
CMSN…F
CMSN…B



MC

1206 1220
1210 1230
1212 1235
1215

Holder
CMSN…F
CMSN…B



Internal Turning

RPGT

0802M0 1604M0
1203M0 2004M0

Holder
SRGP…E
SRGP…F
SRGP…B

SPGH

120440L

Holder
CSKP…B

SPGH

090330L

Holder
SSKP…B

Machining for Race-way

KORIC

2204R/L 3806R/L
2704R/L 4408R/L
3306R/L

Holder
CKFN…RW
CKGN…RW

SNGN-W

0903WR/L
1504WR/L
1905WR/L

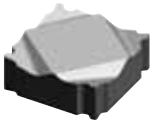
Holder
CSGN…RW

Machining for Bearing Shield

SNGN-S

0903SR/L
1204SR/L
1504SR/L

Holder
CSBN…BS
CSKN…BS



TNGN

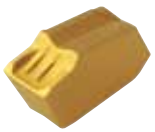
2204SR/L

Holder
STGN…BS

SP

160 300R 500R
180 300L 500L
200 400 600
200R 400R 600R
200L 400L 600L
300 500

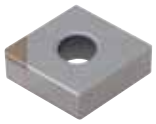
Holder
SPB-S



Regrinding Type (Negative/Positive)

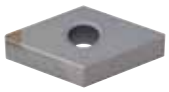
CNMA

120404
120408



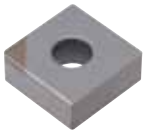
DNMA

150404
150408



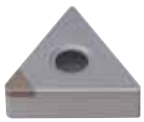
SNMA

Holder
KNSR



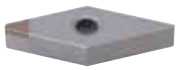
TNMA

160404
160408



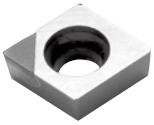
VNMA

160404
160408



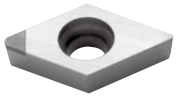
CCMW

09T304



DCGW

11T308



TPGB

110304
110308

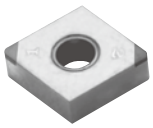
VBMW

160404
160408

Multi-Corner Type (Negative/Positive)

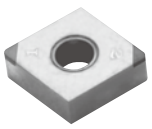
2NU-CNGA

120404
120404F
120404T
120404W
120404WF
120408
120408F
120408T
120408W
120408WF
120408WT
120412
120412F
120412T
120412W
120412WF
120412WT



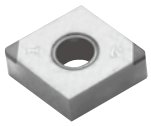
2NU-CNMA

120404
120408



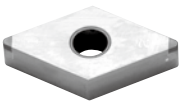
2NS-CNGA

120408



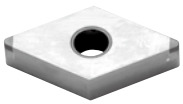
2NU-DNGA

150404
150404F
150404T
150408
150408F
150408T
150412
150412F
150412T
150608



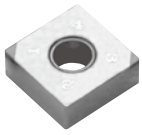
2NS-DNGA

150408



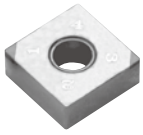
4NU-SNGA

120404
120404F
120404T
120408
120408F
120408T
120412



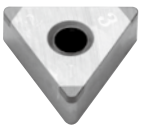
2NS-SNGA

120408



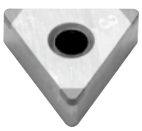
3NU-TNGA

160404
160404F
160404T
160408
160408F
160408T
160412



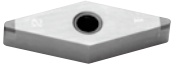
2NS-TNGA

160408



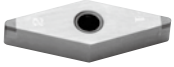
2NU-VNGA

160404
160404F
160404T
160408
160408F
160408T



2NS-VNGA

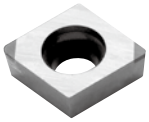
160408



Multi-Corner Type (Negative/Positive)

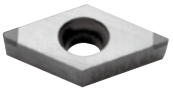
2NU-CCGW

060202 09T304
060202F 09T304F
060202T 09T304T
060204 09T308
060204F 09T308F
060204T 09T308T
060208 09T308W
060208F 09T308WF
060208T



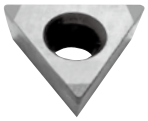
2NU-DCGW

070204 11T304F
070204F 11T304T
070204T 11T308
070208 11T308F
070208F 11T308T
070208T
11T304



3NU-TCGW

090204
090204F
090204T



3NU-TPGB

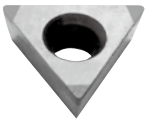
110304
110304F
110304T
110308
110308F
110308T

3NU-TPGN

110304 160304
110304F 160308
110304T
110308
110308F
110308T

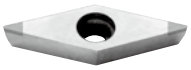
3NU-TPGW

110304
110304F
110304T
110308
110308F
110308T



2NU-VBGW

160404
160404F
160404T
160408
160408F
160408T



2NU-VCGW

160404
160404F
160404T
160408
160408F
160408T

PCD Inserts (Negative/Positive)

BAMPR-XAF

BAMPR

BAMPR-XAW

BAMPR

BAMPR-XAWR

BAMPR

CDEW-NAF

1204R
1204L

(Strengthened Edge)

CDEW-NAW

1204R
1204L

(Strengthened Edge Wiper Insert)

CDEW-XAW

1204R
1204L

(Sharp Edge Wiper Insert)

CDEW-XAF

1204R
1204L

(Sharp Edge)

CDEW-XCF

1204R
1204L

(Sharp Edge)

CNMM

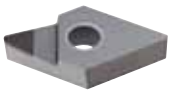
120404
120408
120412

CNMX

120404
120408
120412

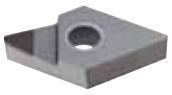
DNMM

150404
150408
150412



DNMX

150404
150408
150412



TNMX

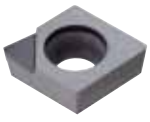
160404
160408
160412

VNMX

160404
160408
160412

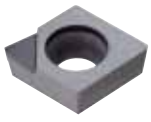
CCMT

060202
060204
060208
09T304
09T308
09T312



CPMT

080204
080208
080212
090304
090308
090312



PCD Inserts (Negative/Positive)

DCMT

070202
070204
070208
11T302
11T304
11T308

SCMT

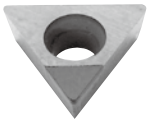
09T304
09T308
09T312

SPGW

090302
090304
090308

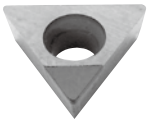
TBGW

080204
080208
080212
090304
090308
090312



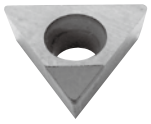
TCMT

090201
090202
090204
110201
110202
110204



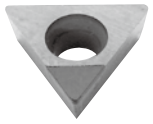
TPGB

080204
080208
090204
090208
110304
110308



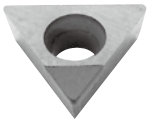
TPGW

080202
080204
090204
090208
110302
110304
110308
160404
160408



TPGT

110302
110304



VBMT

110302
110304
110308
160402
160404
160408
160412

VCMT

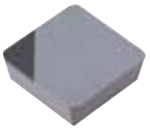
110302
110304
110308
160404
160408
160412

TPGN

090204
090208
110302
110304
110308
160302
160304
160308

SPGN

090304
090308
120304
120308



Turning Tools

KORLOY holders contribute to improving machining quality and tool life by employing excellent durability and strong clamping.
KORLOY responds to customer demands for a variety of holder shapes that are proper for each machining route.

- Tool Holders (ISO Type)
- Boring Bars (ISO Type)
- Save Turn
- Auto Tools
- Multi Functional Tools (Holders)

Double Clamp System

DCBNR/L

2020-K12
2525-M12
3225-P12
2525-M16
3232-P16
3232-P19
4040-S19

DCKNR/L

2020-K12
2525-M12
3225-P12
3232-P16
4040-S16

DCLNR/L

2020-K09 3225-P16
2525-M09 3232-P16
2020-K12 2525-M19
2525-M12 3225-P19
3225-P12 3232-P19
3232-P12 4040-S19
2525-M16

DDJNR/L

2020-K11
2525-M11
3225-P11
3232-P11
2020-K15
2525-M15
3225-P15
3232-P15
2020-K15-3
2525-M15-3
3232-P15-3

DSBNR/L

2020-K09
2525-M09
2020-K12
2525-M12
3225-P12
3232-P12
2525-M15
3225-P15
3232-P15
3232-P19
4040-S19

DSDNN

2020-K09
2020-K12
2525-M12
3225-P12
3232-P12
2525-M15
3232-P15
3232-P19
4040-S19

DSKNR/L

2020-K09
2020-K12
2525-M12
3232-P12
3232-P15
3232-P19
4040-S19

DSSNR/L

2020-K09
2020-K12
2525-M12
3225-P12
3232-P12
2525-M15
3232-P15
3232-P19
4040-S19

DTFNR/L

2020-K16
2525-M16
3232-P16
2525-M22
3225-P22
3232-P22

DTGNR/L

2020-K16
2525-M16
3232-P16
2525-M22
3225-P22
3232-P22

DVJNR/L

2020-K16
2525-M16
3232-P16

DVVNN

2020-K16
2525-M16
3232-P16

DWLNR/L

2020-K06
2525-M06
2020-K08
2525-M08

Lever Lock System

PCBNR/L

2020-K12	3232-P16	4040-S25-5
2525-M12	3232-P19	5050-T25
3225-P12	4040-S19	
2525-M16	4040-S25	

New Type

2020-K12N	2525-M16N	4040-S19N
2525-M12N	3232-P16N	
3225-P12N	3232-P19N	

PCKNR/L

2020-K12	3225-P12	4040-S16
2525-M12	3232-P16	

New Type

2020-K12N	3225-P12N	
2525-M12N	3232-P16N	

PCLNR/L

1616-H09	3232-P12	4040-S19
2020-K09	2525-M16	4040-S25
2525-M09	3232-P16	5050-T25
1616-H12	2525-M19	4040-S25-5
2020-K12	3225-P19	5050-S25-5
2525-M12	3232-P19	
3225-P12	4040-P19	

New Type

1616-H09N	2020-K12N	2525-M16N
2020-K09N	2525-M12N	3232-P16N
2525-M09N	3225-P12N	2525-M19N
1616-H12N	3232-P12N	4040-S19N

PDJNR/L

1616-H11	2525-M15	2525-M15-3
2020-K11	3225-P15	3232-P15-3
2525-M11	3232-P15	
2020-K15	2020-K15-3	

New Type

1616-H11N	2525-M15N	2525-M15-3N
2020-K11N	3225-P15N	3232-P15-3N
2525-M11N	3232-P15N	
2020-K15N	2020-K15-3N	

PDNNR/L

2020-K15	3232-P15	2525-M15-3
2525-M15	4025-M15	4025-M15-3

New Type

2020-K15N	3232-P15N	3232-P15-3N
2525-M15N	2525-M15-3N	

PRDCN

2020-M10	3225-Q12	3232-Q20
2525-M10	2525-Q16	4040-S25
2525-M12	3225-Q16	4040-T25
2020-K12	3232-Q16	5050-U32

PRGCR/L

2020-K10	2525-M12	3225-P16
2525-M10	3225-P12	3232-P20
2020-K12	2525-M16	4040-S25

PSBNR/L

1616-H09	3232-P12	4040-S25
2020-K09	2525-M15	4040-S25-6
2020-K12	3232-P15	5050-T25
2525-M12	3232-P19	5050-T25-6
3225-P12	4040-S19	

New Type

1616-H09N	2525-M12N	2525-M15N
2020-K09N	3225-P12N	
2020-K12N	3232-P12N	

PSDNN

1616-H09	2525-M15	4040-S25
2020-K12	3232-P15	5050-T25
2525-M12	3225-P19	4040-S25-6
3225-P12	3232-P19	5050-T25-6
3232-P12	4040-S19	

New Type

1616-H09N	3225-P12N	3232-P15N
2020-K12N	3232-P12N	
2525-M12N	2525-M15N	

PSKNR/L

1616-H09	3232-P12	4040-S19
2020-K09	2525-M15	4040-S25
2020-K12	3232-P15	4040-S25-6
2525-M12	3232-P19	5050-T25-6

New Type

1616-H09N	2525-M12N	3232-P15N
2020-K09N	3232-P12N	
2020-K12N	2525-M15N	

Lever Lock System

PSSNR/L

1616-H09	3232-P12	4040-R19
2020-K12	2525-M15	4040-S19
2525-M12	3232-P15	4040-S25
3225-P12	3232-P19	4040-S25-6

New Type

1616-H09N	3225-P12N	3232-P15N
2020-K12N	3232-P12N	
2525-M12N	2525-M15N	

PTFNR/L

1616-H16	2525-M22	4040-S27
2020-K16	3232-P22	
2525-M16	3232-P27	

New Type

2525-M22N	3232-P27N	
3232-P22N	4040-S27N	

PTGNR/L

1212-F11	1616-H16	2525-M22
1616-H11	2020-K16	3232-P22
2020-K11	2525-M16	3232-P27
2525-M11	3232-P16	4040-S27

New Type

2525-M22N	3232-P27N	
3232-P22N	4040-S27N	

PTTNR/L

1616-H16	2525-M16
2020-K16	2525-M22

New Type

2525-M22N

PWLNR/L

1616-H06	2525-M06	2525-M08
2020-K06	2020-K08	

New Type

1616-H06N	2525-M06N	2525-M08N
2020-K06N	2020-K08N	

Wedge Clamp System

WTENN

2020-K16
2525-M16
2525-M22
3232-P22

WTJNR/L

2020-K16
2525-M16
3232-P16
2525-M22
3232-P22

WTXNR/L

2020-K16
2525-M16
3232-P16

WWLNR/L

2020-K08
2525-M08
3232-P08

Clamp on System

CKJNR/L

CKJNR

2020-K16 3225-P16
2525-M16 3232-P16
3225-M16 4040-R16

CKJNL

2020-K16 3232-P16
2525-M16 4040-R16

CKNNR/L

2525-M16
3232-P16

CSDPN

1616-H09
2525-M12

CSKPR/L

2525-M12

CTFPR/L

2020-K16
2525-M16

CTGPR/L

1212-F11
1616-H11
2020-K11
2020-K16
2525-M16
2525-M22
3232-P22

Multi Lock System

MCKNR/L

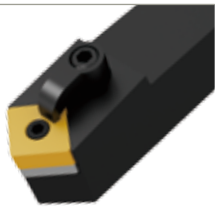
2020-K12
2525-M12
3232-P12

MCLNR/L

1616-H09 2525-M16
2020-K09 3232-P16
2525-M09 4040-S16
2020-K12 2525-M19
2525-M12 3232-P19
3225-P12 4040-S19
3232-P12 4040-S25

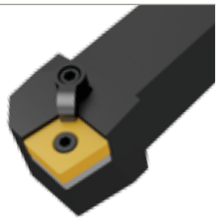
MCMNN

2020-K12
2525-M12
3232-P12
2525-M16
3232-P16
3232-P19
4040-S19



MCRNR/L

2020-K12
2525-M12
2525-M16
3232-P16
3232-P19
4040-S19



MDJNR/L

2020-K11
2525-M11
2020-K15-3
2525-M15-3
3232-P15-3
2020-K15
2525-M15
3232-P15

MDNNN

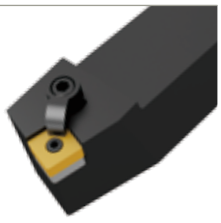
2525-M15-3
2525-M15

MDQNR/L

2525-M15-3
3232-P15-3
2525-M15
3232-M15

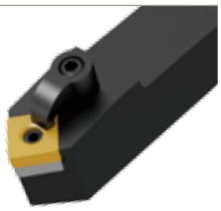
MSBNR/L

2020-K12
2525-M12
2525-M15
3232-P15
3232-P19
4040-S19



MSDNN

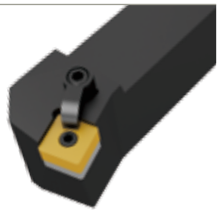
1616-H09
2020-K09
2020-K12
2525-M12
3225-P12
2525-M15
3225-P15
3232-P15
4040-S15
3232-P19
4040-S19



Multi Lock System

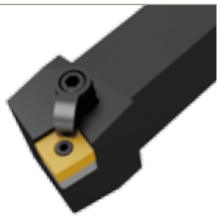
MSKNR/L

1616-H09
2020-K09
2020-K12
2525-M12
3225-P12
2525-M15
3232-P15
3232-P19
4040-S19
4040-S25



MSRNR/L

1616-H09
2020-K09
2020-K12
2525-M12
2525-M15
3232-P15
3225-P19
3232-P19
4040-S19
4040-S25



MSSNR/L

1616-H09
2020-K09
2020-K12
2525-M12
2525-M15
3232-P15
3232-P19
4040-S19

MTENN

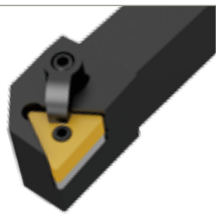
2020-K16
2525-M16
2525-M22
3232-P27
4040-S33

MTFNR/L

1616-H16
2020-K16
2525-M16
2525-M22
3232-P22
4040-S22
3232-P27
4040-S27
4040-S33

MTGNR/L

1616-H16
2020-K16
2525-M16
2525-M22
3232-P22
3232-P27
4040-S27
4040-S33



MTJNR/L

2020-K16
2525-M16
2525-M22
3232-P22
3232-P27
4040-S27
4040-S33

MVJNR/L

2020-K16
2525-M16
3232-P16
2525-M22
3232-P22
4040-S22

MVQNR/L

2020-K16
2525-M16
3232-P16

MVVNN

2020-K16
2525-M16

MWLNR/L

2020-K06
2525-M06
3232-P06
2020-K08
2525-M08
3232-P08

Screw on System

SCACR/L

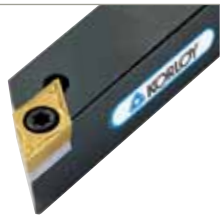
1010-E06
1212-F09

SCLCR/L

0808-D06
1010-E06
1212-F09
1616-H09
2020-K09
2020-K12
2525-M09
2525-M12

SDACR/L

1010-E07
1212-F11
1616-H11

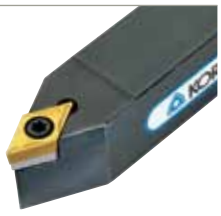


SDJCR/L

1010-E07
1212-F07
1616-H07
2020-K07
1212-F11
1616-H11
2020-K11
2525-M11

SDNCN

1010-E07
1212-F07
1212-H11
1616-H11
2020-K11
2020-M11



SRDCN

1010-E06
1212-F06
1616-H06
2525-M06
1616-H08
2020-K08
2525-M08
1616-H10
2020-K10
2525-M10
2020-K12
2525-M12

SRGCR/L

1010-E06
1212-F06
1616-H06
1616-H08
2020-K08
2525-M08
1616-H10
2020-K10
2525-M10
2020-K12
2525-M12

SSBCR/L

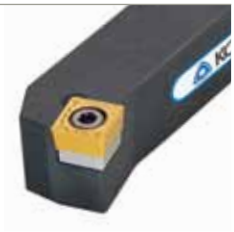
1212-F09
1616-H09
2020-K12

SSDCN

1212-F09
1616-H09

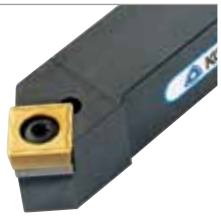
SSKCR/L

1616-H09



SSSCR/L

1616-H09
2020-K12
2525-M12



STACR/L

1010-E09
1212-F11

STFCR/L

1010-E09
1212-F11
1616-H11
1616-H16
2020-K16
2525-M16

STGCR/L

0808-D09
1010-E09
1212-F11
1616-H11
1616-H16
2020-K16
2525-M16

STTCR/L

1616-H11
1616-H16
2020-K16

Screw on System

SVABR/L

1616-H16
2020-K16

SVHBR/L

2525-M16
3225-P16

SVJBR/L

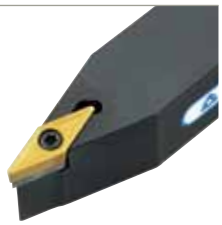
1212-F11
1616-H11
2020-K11
1616-H16
2020-K16
2525-M16
3225-P16
3232-P16

SVJCR/L

1212-F11
1616-H11
2020-K11
1212-F13
1616-H13
2020-K13
1616-H16
2020-K16
2525-M16

SVVBN

1212-F11
1616-H11
2020-K11
1616-H16
2020-K16
2525-M16
3225-P16



SVVCN

1212-F11
1616-H11
2020-K11
1212-F13
1616-H13
2020-K13
1616-H16
2020-K16
2525-M16

Boring Bars (ISO Type)

Double Clamp System

DCLNR/L

A25R-DCLNR/L-09
A25R-DCLNR/L-12
A32S-DCLNR/L-12
A40T-DCLNR/L-12
A50U-DCLNR/L-16

DDUNR/L

A40T-DDUNR/L-15
A50U-DDUNR/L-15
A40T-DDUNR/L-15-3
A50U-DDUNR/L-15-3

DSKNR/L

A25R-DSKNR/L-09
A25R-DSKNR/L-12
A32S-DSKNR/L-12
A40T-DSKNR/L-12

DTFNR/L

A25R-DTFNR/L-16
A32S-DTFNR/L-16
A40T-DTFNR/L-22
A50U-DTFNR/L-22

DWLNR/L

A25R-DWLNR/L-06
A32S-DWLNR/L-06
A40T-DWLNR/L-06
A25R-DWLNR/L-08
A32S-DWLNR/L-08
A40T-DWLNR/L-08
A50U-DWLNR/L-08

Lever Lock System

PCLNR/L

S16R-PCLNR/L-09
S20S-PCLNR/L-09
S25R-PCLNR/L-09
S25R-PCLNR/L-12
S25T-PCLNR/L-12
S32S-PCLNR/L-12
S32U-PCLNR/L-12
S40T-PCLNR/L-12
S50U-PCLNR/L-12
S50U-PCLNR/L-19
A25R-PCLNR/L-12
A32S-PCLNR/L-12
A40T-PCLNR/L-12

New Type

S16R-PCLNR/L-09N
S20S-PCLNR/L-09N
S25R-PCLNR/L-09N
S25R-PCLNR/L-12N
S25T-PCLNR/L-12N
S32S-PCLNR/L-12N
S32U-PCLNR/L-12N
S40T-PCLNR/L-12N
S50U-PCLNR/L-12N
S50U-PCLNR/L-19N
A16R-PCLNR/L-09N
A20S-PCLNR/L-09N
A25R-PCLNR/L-09N
A25R-PCLNR/L-12N
A32R-PCLNR/L-12N
A40T-PCLNR/L-12N
A50U-PCLNR/L-12N
A50U-PCLNR/L-19N

PDSNR/L

S32S-PDSNR/L-15
S40T-PDSNR/L-15
S32S-PDSNR/L-15-3
S40T-PDSNR/L-15-3
A32S-PDSNR/L-15
A32S-PDSNR/L-15-3

New Type

S32S-PDSNR/L-15N
S40T-PDSNR/L-15N
S32S-PDSNR/L-15-3N
S40T-PDSNR/L-15-3N
A32S-PDSNR/L-15N
A40T-PDSNR/L-15N
A32S-PDSNR/L-15-3N
A40T-PDSNR/L-15-3N

PDUNR/L

S32S-PDUNR/L-11
S32S-PDUNR/L-15
S40T-PDUNR/L-15
S50U-PDUNR/L-15
S32S-PDUNR/L-15-3
S40T-PDUNR/L-15-3
A32S-PDUNR/L-15
A32S-PDUNR/L-15-3

New Type

S20S-PDUNR/L-11N
S25R-PDUNR/L-11N
S32S-PDUNR/L-11N
S32S-PDUNR/L-15N
S32U-PDUNR/L-15N
S40T-PDUNR/L-15N
S50U-PDUNR/L-15N
S32S-PDUNR/L-15-3N
S40T-PDUNR/L-15-3N
A20S-PDUNR/L-11N
A25R-PDUNR/L-11N
A32S-PDUNR/L-11N
A32S-PDUNR/L-15N
A40T-PDUNR/L-15N
A50U-PDUNR/L-15N
A32S-PDUNR/L-15-3N
A40T-PDUNR/L-15-3N

PSKNR/L

S25R-PSKNR/L-12
S32S-PSKNR/L-12
S40T-PSKNR/L-12
A25R-PSKNR/L-12
A32S-PSKNR/L-12

New Type

S25R-PSKNR/L-12N
S32S-PSKNR/L-12N
S40T-PSKNR/L-12N
A25R-PSKNR/L-12N
A32S-PSKNR/L-12N
A40T-PSKNR/L-12N

PTFNR/L

S16R-PTFNR/L-11
S20S-PTFNR/L-11
S25R-PTFNR/L-11
S25R-PTFNR/L-16
S32S-PTFNR/L-16
S40T-PTFNR/L-16
A25R-PTFNR/L-16
A32S-PTFNR/L-16

PWLNR/L

S16R-PWLNR/L-06
S20S-PWLNR/L-06
S25R-PWLNR/L-06
S32S-PWLNR/L-06
S25R-PWLNR/L-08
S32S-PWLNR/L-08

New Type

S32S-PWLNR/L-06N
S25R-PWLNR/L-08N
S32S-PWLNR/L-08N

Clamp on System

CKUNR/L

S32S-CKUNR/L-16
S40T-CKUNR/L-16
S50U-CKUNR/L-16

CSKPR/L

S16R-CSKPR/L-09
S20S-CSKPR/L-09
S20S-CSKPR/L-12
S25R-CSKPR/L-12

CTFPR/L

S12M-CTFPR/L-11
S16R-CTFPR/L-11
S20S-CTFPR/L-11
S16R-CTFPR/L-16
S20S-CTFPR/L-16
S25R-CTFPR/L-16
S32S-CTFPR/L-16
S40T-CTFPR/L-16
S40T-CTFPR/L-22

Multi Lock System

MCLNR/L

S20S-MCLNR/L-09
S25R-MCLNR/L-09
S25R-MCLNR/L-12
S32S-MCLNR/L-12
S40T-MCLNR/L-12
A25R-MCLNR/L-12
A32S-MCLNR/L-12

MDUNR/L

S32S-MDUNR/L-15-3
S40T-MDUNR/L-15-3
A32S-MDUNR/L-15-3

MSKNR/L

S25R-MSKNR/L-12
S32S-MSKNR/L-12
S40T-MSKNR/L-12
A25R-MSKNR/L-12
A32S-MSKNR/L-12
A40T-MSKNR/L-12

MTFNR/L

S25R-MTFNR/L-16
S32S-MTFNR/L-16
S40T-MTFNR/L-16
A25R-MTFNR/L-16
A32S-MTFNR/L-16

MVUNR/L

S32S-MVUNR/L-16
S40T-MVUNR/L-16
A32S-MVUNR/L-16
A40T-MVUNR/L-16

MWLNR/L

S25R-MWLNR/L-06
S32S-MWLNR/L-06
S40T-MWLNR/L-06
S25R-MWLNR/L-08
S32S-MWLNR/L-08
S40T-MWLNR/L-08
A25R-MWLNR/L-06
A32S-MWLNR/L-06
A25R-MWLNR/L-08
A32S-MWLNR/L-08

Screw on System

SCLCR/L

S08K-SCLCR/L-06
S10K-SCLCR/L-06
S10M-SCLCR/L-06
S12M-SCLCR/L-06
S16R-SCLCR/L-06
S12M-SCLCR/L-09
S16R-SCLCR/L-09
S20S-SCLCR/L-09
S25R-SCLCR/L-09
S25R-SCLCR/L-12
S32S-SCLCR/L-12
S40T-SCLCR/L12
A08F-SCLCR/L-06
A10H-SCLCR/L-06
A12K-SCLCR/L-06
A12K-SCLCR/L-09
A16M-SCLCR/L-09
A20Q-SCLCR/L-09
A25R-SCLCR/L-09
A25R-SCLCR/L-12
A32S-SCLCR/L-12

SCLPR/L

S10M-SCLPR/L-08
S12M-SCLPR/L-08
S16N-SCLPR/L-09
S16R-SCLPR/L-09
S20N-SCLPR/L-09
S20S-SCLPR/L-09
A10H-SCLPR/L-08
A12K-SCLPR/L-08
A16M-SCLPR/L-09
A20Q-SCLPR/L-09

SDQCR/L

S10M-SDQCR/L-07
S12M-SDQCR/L-07
S16R-SDQCR/L-07
S16R-SDQCR/L-11
S20S-SDQCR/L-11
S25R-SDQCR/L-11
A10H-SDQCR/L-07
A12K-SDQCR/L-07
A16M-SDQCR/L-11
A20Q-SDQCR/L-11
A25R-SDQCR/L-11

SDUCR/L

S10M-SDUCR/L-07
S12M-SDUCR/L-07
S16R-SDUCR/L-07
S16R-SDUCR/L-11
S20S-SDUCR/L-11
S25R-SDUCR/L-11
S32S-SDUCR/L-11
A10H-SDUCR/L-07
A12K-SDUCR/L-07
A16M-SDUCR/L-07
A20Q-SDUCR/L-11
A25R-SDUCR/L-11

Screw on System

SDZCR/L

S16R-SDZCR/L-07
S20S-SDZCR/L-07
S25R-SDZCR/L-11
S32S-SDZCR/L-11
S40T-SDZCR/L-11
A25R-SDZCR/L-11
A32S-SDZCR/L-11

SSKCR/L

S12M-SSKCR/L-09
S16R-SSKCR/L-09
S20S-SSKCR/L-09
S25R-SSKCR/L-12
S32S-SSKCR/L-12
A12K-SSKCR/L-09
A16M-SSKCR/L-09
A20Q-SSKCR/L-09
A25R-SSKCR/L-12
A32S-SSKCR/L-12

SSKPR/L

S12M-SSKPR/L-09
S16N-SSKPR/L-09
S16R-SSKPR/L-09
S20N-SSKPR/L-09
S20S-SSKPR/L-09
A12K-SSKPR/L-09
A16M-SSKPR/L-09
A20Q-SSKPR/L-09

STFCR/L

S10M-STFCR/L-09
S12M-STFCR/L-09
S12M-STFCR/L-11
S16R-STFCR/L-11
S20S-STFCR/L-11
S20S-STFCR/L-16
S25R-STFCR/L-16
S32S-STFCR/L-16
S40T-STFCR/L-16
A10H-STFCR/L-09
A12K-STFCR/L-09
A12K-STFCR/L-11
A16M-STFCR/L-11
A20Q-STFCR/L-11
A25R-STFCR/L-16
A32S-STFCR/L-16

STFPR/L

S10M-STFPR/L-11
S12M-STFPR/L-11
S16N-STFPR/L-11
S16R-STFPR/L-11
S20N-STFPR/L-16
S20S-STFPR/L-16
A10H-STFPR/L-11
A12H-STFPR/L-11
A16M-STFPR/L-11
A20Q-STFPR/L-16

STWPR/L

S10M-STWPR/L-11
S12M-STWPR/L-11
S16Q-STWPR/L-11
S20R-STWPR/L-11

SVJCR/L

S12M-SVJCR/L-08
S16Q-SVJCR/L-08

SVQBR/L

S32S-SVQBR/L-16
S40T-SVQBR/L-16
A32S-SVQBR/L-16

SVQCR/L

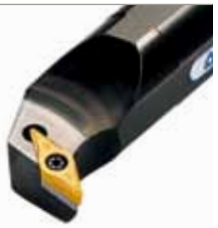
S16R-SVQCR/L-11
S20S-SVQCR/L-11
S25R-SVQCR/L-11
S20S-SVQCR/L-13
S25R-SVQCR/L-13
S25R-SVQCR/L-16
S32S-SVQCR/L-16
S40T-SVQCR/L-16

SVUBR/L

S32S-SVUBR/L-16
S40T-SVUBR/L-16
A32S-SVUBR/L-16

SVUCR/L

S16R-SVUCR/L-11
S20S-SVUCR/L-11
S25T-SVUCR/L-11
S20S-SVUCR/L-13
S25R-SVUCR/L-13
S25R-SVUCR/L-16
S32S-SVUCR/L-16
S40T-SVUCR/L-16



SWLCR/L

S25R-SWLCR/L-08
S32S-SWLCR/L-08
A25R-SWLCR/L-08
A32S-SWLCR/L-08

Carbide Shank Boring Bar

SCLCR/L

C04G-SCLCR/L-03 C12Q-SCLCR/L-09 E10M-SCLCR/L-06
C05H-SCLCR/L-03 C16R-SCLCR/L-09 E12M-SCLCR/L-06
C06H-SCLCR/L-04 C16S-SCLCR/L-09 E12Q-SCLCR/L-06
C07K-SCLCR/L-04 C20R-SCLCR/L-09 E12M-SCLCR/L-09
C08K-SCLCR/L-06 C20S-SCLCR/L-09 E12Q-SCLCR/L-09
C10K-SCLCR/L-06 C25T-SCLCR/L-12 E16R-SCLCR/L-09
C10M-SCLCR/L-06 E06H-SCLCR/L-04 E16S-SCLCR/L-09
C12M-SCLCR/L-06 E07K-SCLCR/L-04 E20R-SCLCR/L-09
C12Q-SCLCR/L-06 E08K-SCLCR/L-06 E20S-SCLCR/L-09
C12M-SCLCR/L-09 E10K-SCLCR/L-06 E25T-SCLCR/L-12

SCLPR/L

C10K-SCLPR/L-08 E10K-SCLPR/L-08
C10M-SCLPR/L-08 E10M-SCLPR/L-08
C12M-SCLPR/L-08 E12M-SCLPR/L-08
C12Q-SCLPR/L-08 E12Q-SCLPR/L-08
C12M-SCLPR/L-09 E12M-SCLPR/L-09
C12Q-SCLPR/L-09 E12Q-SCLPR/L-09
C16R-SCLPR/L-09 E16R-SCLPR/L-09
C16S-SCLPR/L-09 E16S-SCLPR/L-09
C20R-SCLPR/L-09 E20R-SCLPR/L-09
C20S-SCLPR/L-09 E20S-SCLPR/L-09

SDQCR/L

C08K-SDQCR/L-07 E08K-SDQCR/L-07
C10K-SDQCR/L-07 E10K-SDQCR/L-07
C12M-SDQCR/L-07 E12M-SDQCR/L-07
C16R-SDQCR/L-07 E16R-SDQCR/L-07
C16R-SDQCR/L-11 E16R-SDQCR/L-11
C20R-SDQCR/L-11 E20R-SDQCR/L-11
C20S-SDQCR/L-11 E20S-SDQCR/L-11

SDUCR/L

C10K-SDUCR/L-07 E10K-SDUCR/L-07
C10M-SDUCR/L-07 E10M-SDUCR/L-07
C12M-SDUCR/L-07 E12M-SDUCR/L-07
C12Q-SDUCR/L-07 E12Q-SDUCR/L-07
C16R-SDUCR/L-07 E16R-SDUCR/L-07
C16S-SDUCR/L-07 E16S-SDUCR/L-07
C16R-SDUCR/L-11 E16R-SDUCR/L-11
C16S-SDUCR/L-11 E16S-SDUCR/L-11
C20R-SDUCR/L-11 E20R-SDUCR/L-11
C20S-SDUCR/L-11 E20S-SDUCR/L-11
C25T-SDUCR/L-11 E25T-SDUCR/L-11

STFCR/L

C08K-STFCR/L-09 E08K-STFCR/L-09
C10K-STFCR/L-09 E10K-STFCR/L-09
C10K-STFCR/L-11 E10K-STFCR/L-11
C12M-STFCR/L-11 E12M-STFCR/L-11
C16R-STFCR/L-11 E16R-STFCR/L-11
C20R-STFCR/L-11 E20R-STFCR/L-11
C20S-STFCR/L-11 E20S-STFCR/L-11
C20R-STFCR/L-16 E20R-STFCR/L-16
C20S-STFCR/L-16 E20S-STFCR/L-16

STFPR/L

C08K-STFPR/L-08 E08K-STFPR/L-08
C10K-STFPR/L-11 E10K-STFPR/L-11
C10M-STFPR/L-11 E10M-STFPR/L-11
C12M-STFPR/L-11 E12M-STFPR/L-11
C12Q-STFPR/L-11 E12Q-STFPR/L-11
C16R-STFPR/L-11 E16R-STFPR/L-11
C16S-STFPR/L-11 E16S-STFPR/L-11
C20R-STFPR/L-11 E20R-STFPR/L-11
C20S-STFPR/L-11 E20S-STFPR/L-11
C20R-STFPR/L-16 E20R-STFPR/L-16
C20S-STFPR/L-16 E20S-STFPR/L-16
C25T-STFPR/L-16 E25T-STFPR/L-16

STUBR/L

C08K-STUBR/L-06 E08K-STUBR/L-06
C10K-STUBR/L-06 E10K-STUBR/L-06

STUPR/L

C08K-STUPR/L-08 E08K-STUPR/L-08
C10K-STUPR/L-11 E10K-STUPR/L-11
C10M-STUPR/L-11 E10M-STUPR/L-11
C12M-STUPR/L-11 E12M-STUPR/L-11
C12Q-STUPR/L-11 E12Q-STUPR/L-11
C16R-STUPR/L-11 E16R-STUPR/L-11
C16S-STUPR/L-11 E16S-STUPR/L-11
C20R-STUPR/L-11 E20R-STUPR/L-11
C20S-STUPR/L-11 E20S-STUPR/L-11
C20R-STUPR/L-16 E20R-STUPR/L-16
C20S-STUPR/L-16 E20S-STUPR/L-16
C25T-STUPR/L-16 E25T-STUPR/L-16

SWUBR/L

C05H-SWUBR/L-02 E06H-SWUBR/L-02
C06H-SWUBR/L-02 E08K-SWUBR/L-02
C08K-SWUBR/L-02 E08K-SWUBR/L-S3
C08K-SWUBR/L-S3

External Turning

PCLNR/L

1616-H09-4N
2020-K09-4N
2525-M09-4N

PCBNR/L

2020-K09-4N
2525-M09-4N

PDJNR/L

2020-K11-5N
2525-M11-5N

PDNNR/L

2020-K11-5N
2525-M11-5N

PDQNR/L

2020-K11-5N
2525-M11-5N

PSBNR/L

2020-K09-4N
2525-M09-4N

PSDNN

2020-K09-4N
2525-M09-4N

PSKNR/L

2020-K09-4N
2525-M09-4N

PSSNR/L

2020-K09-4N
2525-M09-4N

PWLNR/L

1616-H06
2020-K06
2525-M06

Internal Turning

PCLNR/L

S20Q-PCLNR/L-09-4N
S25R-PCLNR/L-09-4N
S32S-PCLNR/L-09-4N

PDUNR/L

S32S-PDUNR/L-11-5N
S40T-PDUNR/L-11-5N

PDZNR/L

S32S-PDZNR/L-11-5N
S40T-PDZNR/L-11-5N

PSKNR/L

S25R-PSKNR/L-09-4N
S32S-PSKNR/L-09-4N

PWLNR/L

S20S-PWLNR/L-06
S25S-PWLNR/L-06
S32S-PWLNR/L-06

ISO Type

SCACR/L

0808-X06A
1010-X06A
1010-X09A
1212-X09A
1616-X09A

SCLCR/L

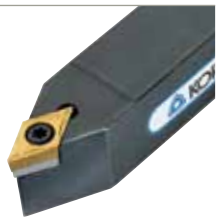
0808-X06A
1010-X06A
1010-X09A
1212-X09A
1616-X09A

SDJCR/L

0808-X07A
1010-X07A
1010-X11A
1212-X11A
1616-X11A

SDNCN

0808-X07A
1010-X07A
1010-X11A
1212-X11A
1616-X11A



STACR/L

0808-X08A
1010-X08A

SVACR/L

0810-X12A
1010-X12A
1212-X12A
1616-X12A
0810-X12C
1010-X12C
1212-X12C
1616-X12C

SVAPR/L

0808-X11A
1010-X11A
1212-X11A
1616-X11A

SVJBR/L

1010-X11A
1212-X11A
1616-X11A

SVJCR/L

1010-X11A
1212-X11A
1616-X11A
0810-X12A
1010-X12A
1212-X12A
1616-X12A
0810-X12C
1010-X12C
1212-X12C
1616-X12C

SVJPR/L

0810-X11A
1010-X11A
1212-X11A
1616-X11A

SVVPN

0810-X11A
1010-X11A
1212-X11A
1616-X11A

KHP

SCLCR/L

122-X09A-KHP

SDJCR/L

122-X07A-KHP
122-X11A-KHP

SVJCR/L

122-X11A-KHP
122-X12A-KHP

Blade Type

SBHR/L

1010-K25
1212-K25
1616-K25

Insert : SBT

SBHR/L-X

1010-K25-X
1212-K25-X

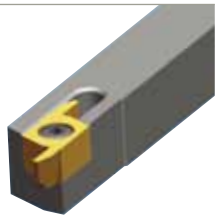
Insert : SBG, SBC

Multi Functional Type

SXGNR/L

1010-X06A
1212-X06A
1616-X06A
2020-X06A
1212-X08A
1616-X08A
2020-X08A

Insert : SB



KGT/MGT Type

KGEHR/L-D00A

1010-2-D20A
1212-2-D25A
1414-2-D25A
1616-2-D32A
1212-3-D25A
1616-3-D32A

Insert : KGMN

KGEHR/L-D00B

1010-2-D30B
1212-2-D25B
1212-2-D30B
1616-2-D32B
1212-3-D25B
1212-3-D32B
1616-3-D32B

MGEHR/L

1010-X15A
1212-X15A
1010-X20A
1212-X20A
1616-X20A
1010-X25A
1212-X25A
1616-X25A

Multi Functional Tools (Holders)

KGT

KGEHR/L

1212-□-T□□
1616-□-T□□
2020-□-T□□
2525-□-T□□
3232-□-T□□

Insert

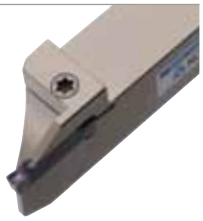
KGGN KRGN
KGMN KRMN
KGMR/L

KGEHR/L-D00A Auto Tool

1010-□-□□□A
1212-□-□□□A
1414-□-□□□A
1616-□-□□□A

Insert

KGGN KRMN
KGMN KRGN
KGMR/L



KGEHR/L-D00B Auto Tool

1010-□-□□□B
1212-□-□□□B
1414-□-□□□B
1616-□-□□□B

Insert

KGGN KGMR/L
KGMN KRMN

KGEHR/L-T00

1616-□-T00
2020-□-T00
2525-□-T00

Insert

KGGN KRGN
KGMN KRMN

KGEVR/L-T00

2020-□-T00
2525-□-T00
3232-□-T00

Insert

KGGN KRGN
KGMN KRMN

KGEUR/L

1616-□
2020-□
2525-□
3232-□

Insert

KRGN KRMN

KGFVR/L

325-□/□-T□□
425-□/□-T□□
525-□/□-T□□
625-□/□-T□□

Insert

KGGN KRGN
KGMN KRMN

KGFHR/L

320-□/□-T□□
325-□/□-T□□
420-□/□-T□□
425-□/□-T□□
525-□/□-T□□
625-□/□-T□□

Insert

KGGN KRGN
KGMN KRMN

KGIUR/L

3520-□
4025-□
5032-□

Insert

KRGN KRMN

KGIVR/L

2016-□ 3225-□
2516-□ 4032-□
2520-□ 4540-□

Insert

KGGN KRMI
KGMI KRMN
KGMN

KGTB (Blades)

1526S 4026S
1532 4032
2026S 5032
2032 6032
3026S 8032S
3032

Insert

KG□□

K.G.T Cartridge

KCER/L (Cartridge)

3-T16 5-T20
4-T16 6-T20

Insert

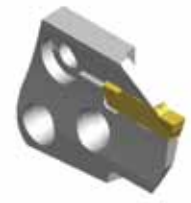
KGGN KGMR/L
KGMN KRMN

KCFR/L (Cartridge)

3-34/50-T16
3-44/70-T16
3-64/99-T16
4-44/60-T16
4-60/120-T16
4-112/200-T16

Insert

KGMI KGMN



MGT

MGEHR/L

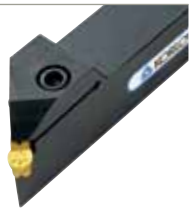
1212-□ 2525-□
1616-□ 2525-□-T□
2020-□ 3232-□
2020-□-T□ 3232-□-T□

Insert
MGGN MRGN
MGMN MRMN
MGMR

MGEUR/L

2020-□ 2525-□A
2525-□ 3232-□A
3232-□

Insert
KGGN KRMN
KGMN KRGN
KGMR/L



MGEVR/L

2020-□
2525-□
3232-□

Insert
KGGN KGMR/L
KGMN KRMN

MGIUR/L

3520-□ 4025-□A
4025-□ 5032-□A
5032-□

Insert
MRGN MRMN

MGIVR/L

2016-□ 2520-□-T□
2520-□ 3125-□-T□
2925-□ 3732-□-T□
3125-□
3732-□
4540-□

Insert
MGGN MRGN
MGMN MRMN

MGT Cartridge

MCER/L (Cartridge)

3-T16
4-T16
5-T20
6-T20

Insert
MGMN MGGN
MGMR MRMN

MCFR/L (Cartridge)

3-24/35-T16 3-64/99-T16
3-29/40-T16 4-44/60-T16
3-34/50-T16 4-60/120-T16
3-44/70-T16 4-112/200-T16

Insert
MFNM MGMN

MCHR/L (Holder)

2020
2525
3232

Insert
MCER/L MCFR/L

MCVR/L (Holder)

2020
2525
3232

Insert
MCER/L MCFR/L

K Notch

KNSR

1.01E+05 2525M3
1212F2 322593
1616H2 323293
2020K2 2525M4
2525M2 3225P4
2020K3 3232P4

Insert
KNB KNR
KNG KNRP
KNGP KNT

Saw-Man X

KSPB (Blades)

2026 4032
2032 5026
3026 5032
3032 6026
4026 6032

Insert
KSP

Saw-Man

SMBB (Block)

1626 2526
2026 2532
2032 3232
Insert : SP

SPB (Blades)

226 232
326 332
426 432
526 532
626 632
Insert : SP

SPB-S (Blades)

226-S 432-S
326-S 532-S
426-S 632-S
526-S 832-S
626-S 932-S
232-S 8526-S
332-S 9526-S
Insert : SP

SPH (Holder)

316R/L 325R/L
320R/L 425R/L
420R/L 525R/L
520R/L
Insert : SP

SPH-S (Holder)

316R/L-S 325R/L-S
320R/L-S 425R/L-S
420R/L-S 525R/L-S
520R/L-S
Insert : SP

Internal Cutting

GFIK

316R/L 525R/L
325R/L 540R/L
340R/L 840R/L
Insert : GR

GFIP

316R/L 525R/L
320R/L 540R/L
325R/L 840R/L
340R/L
Insert : BF, GW

IGH

214R/L 220R/L
216R/L
Insert : IG

NFTIH

08206C 11208C 14012C 14312C 16316C
08212C 11212C 14016C 14316C 16416C
08312C 11312C 14112C 16312C 16516C
08312S 11312S 14116C 16312S
08412C 11412C 14212C 16412C
08512C 11512C 14216C 16512C
Insert : NFTF, NFTG, NFTT

External Cutting

DBH

320R/L 525R/L
325R/L 720R/L
520R/L 725R/L
Insert : DB, DC

EH

620R 625R
Insert : ESB

GFT

320R/L 525R/L
325R/L 825R/L
Insert : GW, BF

External Cutting

GH

2020R/L-3 2020R/L-4
2025R/L-3 2525R/L-4

Insert : GO, GS

TBH

320R/L-23 425R/L-23
320R/L-33 425R/L-33
320R/L-43 425R/L-45
325R/L-23 510R/L
325R/L-33 512R/L
325R/L-43 516R/L
420R/L-23 520R/L
420R/L-33 525R/L
420R/L-45

Insert : TB, TB-M

PH

320R/L 425R/L
325R/L 520R/L
420R/L 525R/L

Insert : POB

Face Grooving Tools

MGFHR/L

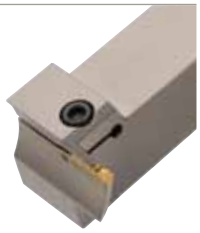
325-24/35-T10 325-64/99-T10
325-29/40-T10 425-62/120-T15
325-34/50-T10 425-112/200-T15
325-44/70-T10

Insert : MFMN, MGMN

MGFVR/L

325-24/35-T10 325-64/99T10
325-29/40-T10 425-44/60-T10
325-34/50-T10 425-60/120-T10
325-44/70-T10 425-112/200-T10

Insert : MFMN, MGMN



MGFVR/L

320R 425R
325R 520R
420R 525R

Insert : FGD, FGM, FMM

Threading

ER(L)H — Screw on system

ER(L)H□□-□□

Insert : ER, ERM

ER(L)H-C — Clamp on system

ER(L)H□□-□□C

Insert : ER, ERM, ERM-U

IR(L)H — Clamp on system

IR(L)H□□-□□

Insert : IR, IRM, IRM-U

IR(L)H-C — Clamp on system

IR(L)H□□-□□C

Insert : IR, IRM, IRM-U

VTH

2020R
2525R
3225R

Insert : VETR

Milling Tools

KORLOY provides high quality milling cutters thanks to its advanced technology and accumulated know-how of tooling systems, carrying out values for higher productivity and quality results.

- Face Milling Cutters
- Multi Functional Cutters
- For Aluminum Milling
- High Feed Milling Cutters
- Side Cutters

Rich Mill

RM3PC(M)3000/4000/5000

3000 Type
: Ø40 ~ Ø80mm

Insert
XNKT060405PNER-ML
XNKT060405PNSR-MM
XNKT060408PNER-ML
XNKT060408PNSR-MM

4000 Type
: Ø40 ~ Ø125mm

Insert
XNCT080504PNFR-MA
XNCT080508PNFR-MA
XNCT080512PNFR-MA
XNCT080520PNFR-MA
XNKT080504PNER-ML
XNKT080504PNSR-MM
XNKT080508PNER-ML
XNKT080508PNSR-MM
XNKT080512PNER-ML
XNKT080512PNSR-MM
XNKT080516PNER-ML
XNKT080516PNSR-MM
XNKT080520PNER-ML
XNKT080520PNSR-MM

5000 Type
: Ø80 ~ Ø125mm

Insert
XNCT120608PNFR-MA
XNKT120604PNSR-MM
XNKT120608PNER-ML
XNKT120608PNSR-MM
XNKT120612PNER-ML
XNKT120612PNSR-MM
XNKT120616PNER-ML
XNKT120616PNSR-MM
XNKT120620PNER-ML
XNKT120620PNSR-MM

RM3PS3000/4000

3000 Type
: Ø20 ~ Ø40mm

Insert
XNKT060405PNER-ML
XNKT060405PNSR-MM
XNKT060408PNER-ML
XNKT060408PNSR-MM

4000 Type
: Ø32 ~ Ø63mm

Insert
XNCT080504PNFR-MA
XNCT080508PNFR-MA
XNCT080512PNFR-MA
XNCT080520PNFR-MA
XNKT080504PNER-ML
XNKT080504PNSR-MM
XNKT080508PNER-ML
XNKT080508PNSR-MM
XNKT080512PNER-ML
XNKT080512PNSR-MM
XNKT080516PNER-ML
XNKT080516PNSR-MM
XNKT080520PNER-ML
XNKT080520PNSR-MM

RM3PM3000/4000

3000 Type
: Ø20 ~ Ø40mm

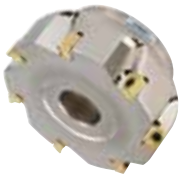
Insert
XNKT060405PNER-ML
XNKT060405PNSR-MM
XNKT060408PNER-ML
XNKT060408PNSR-MM

4000 Type
: Ø32 ~ Ø63mm

Insert
XNCT080504PNFR-MA
XNCT080508PNFR-MA
XNCT080512PNFR-MA
XNCT080520PNFR-MA
XNKT080504PNER-ML
XNKT080504PNSR-MM
XNKT080508PNER-ML
XNKT080508PNSR-MM
XNKT080512PNER-ML
XNKT080512PNSR-MM
XNKT080516PNER-ML
XNKT080516PNSR-MM
XNKT080520PNER-ML
XNKT080520PNSR-MM

• Please refer to page 104 for available adaptors

RM4PC(M)3000/4000



3000 Type
: Ø40 ~ Ø100mm

Insert
LNEX100605PNR-MA
LNEX100605PNR-MF/MM
LNEX100608PNR-MF/MM
LNMX100605PNR-MF/MM
LNMX100608PNR-MF/MM

4000 Type
: Ø50 ~ Ø160mm

Insert
LNEX151004PNR-MA
LNEX151004PNR-MF/MM
LNEX151008PNR-MA
LNEX151008PNR-MF/MM
LNEX151016PNR-MF/MM
LNMX151004PNR-MF/MM
LNMX151008PNR-MF/MM
LNMX151016PNR-MF/MM

RM4PS3000/4000

3000 Type
: Ø14 ~ Ø50mm

Insert
LNEX100605PNR-MA
LNEX100605PNR-MF/MM
LNEX100605PNL-MM
LNMX100605PNR-MF/MM
LNMX100608PNR-MF/MM

4000 Type
: Ø32 ~ Ø63mm

Insert
LNEX151004PNR-MA
LNEX151004PNR-MF/MM
LNEX151008PNR-MA
LNEX151008PNR-MF/MM
LNEX151016PNR-MF/MM
LNMX151004PNR-MF/MM
LNMX151008PNR-MF/MM
LNMX151016PNR-MF/MM

RM4PM3000

3000 Type
: Ø14 ~ Ø50mm

Insert
LNEX100605PNR-MA
LNEX100605PNR-MF/MM
LNEX100608PNR-MF/MM
LNMX100605PNR-MF/MM
LNMX100608PNR-MF/MM
LNMX100608PNR-MF/MM

• Please refer to page 104 for available adaptors

RM4ZC(M)3000/4000

3000 Type
: Ø40 ~ Ø63mm

Insert
LNEX100605PNL-MM
LNMX100605PNL-MM

4000 Type
: Ø66 ~ Ø100mm

Insert
LNEX151008PNL-MM
LNMX151008PNL-MM

Rich Mill

RM4ZS3000

▸ **3000 Type**
: Ø25 ~ Ø40mm

Insert
LNEX100605PNL-MM
LNMX100605PNL-MM

RM4ZM3000

▸ **3000 / 4000 Type**
: Ø25 ~ Ø40mm

Insert
LNEX100605PNL-MM
LNMX100605PNL-MM

• Please refer to page 104 for available adaptors

RM6PC(M)-WN04/08

▸ **WN04**
: Ø40 ~ Ø63mm

Insert

WNGX040304PNFR-MA	WNGX040304PNSR-MM
WNGX040308PNFR-MA	WNGX040308PNSR-MM
WNGX040312PNFR-MA	WNGX040312PNSR-MM
WNGX040316PNFR-MA	WNGX040316PNSR-MM
WNGX040304PNER-ML	
WNGX040308PNER-ML	
WNGX040312PNER-ML	
WNGX040316PNER-ML	

▸ **WN08**
: Ø50 ~ Ø125mm

Insert

WNGX080604PNFR-MA	WNGX080616PNER-ML
WNGX080608PNFR-MA	WNGX080620PNER-ML
WNGX080612PNFR-MA	WNGX080604PNSR-MM
WNGX080616PNFR-MA	WNGX080608PNSR-MM
WNGX080620PNFR-MA	WNGX080612PNSR-MM
WNGX080604PNER-ML	WNGX080616PNSR-MM
WNGX080608PNER-ML	WNGX080620PNSR-MM
WNGX080612PNER-ML	

RM6PS-WN04/08

▸ **WN04**
: Ø20 ~ Ø32mm

Insert

WNGX040304PNFR-MA	WNGX040304PNSR-MM
WNGX040308PNFR-MA	WNGX040308PNSR-MM
WNGX040312PNFR-MA	WNGX040312PNSR-MM
WNGX040316PNFR-MA	WNGX040316PNSR-MM
WNGX040304PNER-ML	
WNGX040308PNER-ML	
WNGX040312PNER-ML	
WNGX040316PNER-ML	

▸ **WN08**
: Ø32 ~ Ø50mm

Insert

WNGX080604PNFR-MA	WNGX080616PNER-ML
WNGX080608PNFR-MA	WNGX080620PNER-ML
WNGX080612PNFR-MA	WNGX080604PNSR-MM
WNGX080616PNFR-MA	WNGX080608PNSR-MM
WNGX080620PNFR-MA	WNGX080612PNSR-MM
WNGX080604PNER-ML	WNGX080616PNSR-MM
WNGX080608PNER-ML	WNGX080620PNSR-MM
WNGX080612PNER-ML	

RM6PM-WN04/08

▸ **WN04**
: Ø20 ~ Ø32mm

Insert

WNGX040304PNFR-MA	WNGX040312PNER-ML
WNGX040308PNFR-MA	WNGX040316PNER-ML
WNGX040312PNFR-MA	WNGX040304PNSR-MM
WNGX040316PNFR-MA	WNGX040308PNSR-MM
WNGX040304PNER-ML	WNGX040312PNSR-MM
WNGX040308PNER-ML	WNGX040316PNSR-MM

• Please refer to page 104 for available adaptors

▸ **WN08**
: Ø32 ~ Ø40mm

Insert

WNGX080604PNFR-MA	WNGX080616PNER-ML
WNGX080608PNFR-MA	WNGX080620PNER-ML
WNGX080612PNFR-MA	WNGX080604PNSR-MM
WNGX080616PNFR-MA	WNGX080608PNSR-MM
WNGX080620PNFR-MA	WNGX080612PNSR-MM
WNGX080604PNER-ML	WNGX080616PNSR-MM
WNGX080608PNER-ML	WNGX080620PNSR-MM
WNGX080612PNER-ML	

RM8AC(M)4000/5000

▸ **4000 Type**
: Ø50 ~ Ø400mm

Insert
SNEX1206ANN-MA
SNEX1206ANN-MF
SNEX1206ANN-ML
SNEX1206ANN-MM
SNEX1206ANN-W
SNMX1206ANN-MF
SNMX1206ANN-MM

▸ **5000 Type**
: Ø80 ~ Ø400mm

Insert
SNEX1507ANN-MF
SNEX1507ANN-ML
SNEX1507ANN-MM
SNMX1507ANN-MF
SNMX1507ANN-MM

RMH8AC(M)4000/5000

Shim Type

▸ **4000 Type**
: Ø80 ~ Ø400mm

Insert
SNEX1206ANN-MA
SNEX1206ANN-MF
SNEX1206ANN-ML
SNEX1206ANN-MM
SNEX1206ANN-W
SNMX1206ANN-MF
SNMX1206ANN-MM

▸ **5000 Type**
: Ø80 ~ Ø400mm

Insert
SNEX1507ANN-MF
SNEX1507ANN-ML
SNEX1507ANN-MM
SNMX1507ANN-MF
SNMX1507ANN-MM

Rich Mill

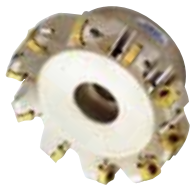
RM8EC(M)4000/5000

4000 Type
: Ø50 ~ Ø400mm

Insert
SNEX1206ENN-MA
SNEX1206ENN-MF
SNEX1206ENN-ML
SNEX1206ENN-MM
SNMX1206ENN-MF
SNMX1206ENN-MM

5000 Type
: Ø80 ~ Ø400mm

Insert
SNEX1507ENN-MF
SNEX1507ENN-ML
SNEX1507ENN-MM
SNMX1507ENN-MF
SNMX1507ENN-MM



RMH8EC(M)4000/5000

Shim Type

4000 Type
: Ø80 ~ Ø400mm

Insert
SNEX1206ENN-MA
SNEX1206ENN-MF
SNEX1206ENN-ML
SNEX1206ENN-MM
SNMX1206ENN-MF
SNMX1206ENN-MM

5000 Type
: Ø80 ~ Ø400mm

Insert
SNEX1507ENN-MF
SNEX1507ENN-ML
SNEX1507ENN-MM
SNMX1507ENN-MF
SNMX1507ENN-MM

RM8QC(M)4000

4000 Type
: Ø63 ~ Ø200mm

Insert
SNEX1206QNN-MA
SNEX1206QNN-MF
SNEX1206QNN-ML
SNEX1206QNN-MM
SNEX120612-MA
SNEX120612-MF
SNEX120612-ML
SNEX120612-MM
SNMX1206QNN-MF
SNMX1206QNN-MM
SNMX120612-MF
SNMX120612-MM

RMH8QC(M)4000

Shim Type

4000 Type
: Ø80 ~ Ø200mm

Insert
SNEX1206QNN-MA
SNEX1206QNN-MF
SNEX1206QNN-ML
SNEX1206QNN-MM
SNEX120612-MA
SNEX120612-MF
SNEX120612-ML
SNEX120612-MM
SNMX1206QNN-MF
SNMX1206QNN-MM
SNMX120612-MF
SNMX120612-MM

RMT8A(M)4000/5000

4000 Type
: Ø80 ~ Ø315mm

Insert
SNCF1206ANN-MF/MM
SNMF1206ANN-MF/MM

5000 Type
: Ø80 ~ Ø315mm

Insert
SNCF1507ANN-MF/MM
SNMF1507ANN-MF/MM

RMT8E(M)4000/5000

4000 Type
: Ø80 ~ Ø315mm

Insert
SNCF1206ANN-MF/MM
SNMF1206ANN-MF/MM

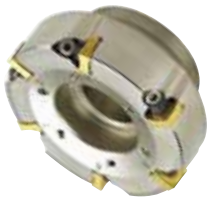
5000 Type
: Ø80 ~ Ø315mm

Insert
SNCF1507ANN-MF/MM
SNMF1507ANN-MF/MM

RMT8Q(M)4000

4000 Type
: Ø80 ~ Ø315mm

Insert
SNMF1206QNN-MF/MM
SNMF1206QNN-MF/MM



RM16AC(M)6000/8000

6000 Type
: Ø63 ~ Ø400mm

Insert
ONHX060608-MA
ONHX060608-MF
ONHX060608-ML
ONHX060608-MM
ONHX060608-W
ONHX0606ANN-MF
ONHX0606ANN-MM
ONMX060608-MF
ONMX060608-MM
ONMX0606ANN-MF
ONMX0606ANN-MM

8000 Type
: Ø63 ~ Ø400mm

Insert
ONHX080608-MA
ONHX080608-MF
ONHX080608-ML
ONHX080608-MM
ONHX080608-W
ONHX0806ANN-MF
ONHX0806ANN-MM
ONMX080608-MF
ONMX080608-MM
ONMX0806ANN-MF
ONMX0806ANN-MM

Rich Mill (Side Milling Cutter)

RM4PFCB3000/4000

3000 Type
: Ø80 ~ Ø160mm
Insert
LNEX100605PNR-MM
LNEX100605PNL-MM
LNMX100605PNR-MM
LNMX100605PNL-MM

4000 Type
: Ø80 ~ Ø160mm
Insert
LNEX151008PNR-MM
LNEX151008PNL-MM
LNMX151008PNR-MM
LNMX151008PNL-MM

RM4PHCB3000/4000

3000 Type
: Ø80 ~ Ø315mm
Insert
LNEX100605PNR-MA
LNEX100605PNR-MF/MM
LNEX100608PNR-MF/MM
LNMX100605PNR-MF/MM
LNMX100608PNR-MF/MM

4000 Type
: Ø80 ~ Ø160mm
Insert
LNEX151004PNR-MA
LNEX151008PNR-MA
LNEX151004PNR-MF/MM
LNEX151008PNR-MF/MM
LNEX151016PNR-MF/MM
LNMX151004PNR-MF/MM
LNMX151008PNR-MF/MM
LNMX151016PNR-MF/MM

RM4PFCP3000/4000

3000 Type
: Ø80 ~ Ø160mm
Insert
LNEX100605PNR-MM
LNEX100605PNL-MM
LNMX100605PNR-MM
LNMX100605PNL-MM

4000 Type
: Ø80 ~ Ø160mm
Insert
LNEX151008PNR-MM
LNEX151008PNL-MM
LNMX151008PNR-MM
LNMX151008PNL-MM

RM4PHCP3000/4000

3000 Type
: Ø80 ~ Ø315mm
Insert
LNEX100605PNR-MA
LNEX100605PNR-MF/MM
LNEX100608PNR-MF/MM
LNMX100605PNR-MF/MM
LNMX100608PNR-MF/MM

4000 Type
: Ø80 ~ Ø160mm
Insert
LNEX151004PNR-MA
LNEX151008PNR-MA
LNEX151004PNR-MF/MM
LNEX151008PNR-MF/MM
LNEX151016PNR-MF/MM
LNMX151004PNR-MF/MM
LNMX151008PNR-MF/MM
LNMX151016PNR-MF/MM

Tangen-Pro TP2P

TP2PCM-LN08

Ø40 ~ Ø63mm
Insert
LNKT080404PNR-MA
LNKT080408PNR-MA
LNKT080404PNR-ML
LNKT080408PNR-ML
LNKT080404PNR-MM
LNKT080408PNR-MM

TP2PC(M)-LN14

Ø40 ~ Ø125mm
Insert
LNKT140608PNR-MA
LNKT140608PNR-ML
LNKT140608PNR-MM

TP2PC(M)-LN17

Ø40 ~ Ø125mm
Insert
LNKT170704PNR-MA
LNKT170708PNR-MA
LNKT170712PNR-MA
LNKT170716PNR-MA
LNKT170720PNR-MA
LNKT170704PNR-ML
LNKT170708PNR-ML
LNKT170712PNR-ML
LNKT170716PNR-ML
LNKT170720PNR-ML
LNKT170704PNR-MM
LNKT170708PNR-MM
LNKT170712PNR-MM
LNKT170716PNR-MM
LNKT170720PNR-MM

TP2PS-LN08

Ø20 ~ Ø25mm
Insert
LNKT080404PNR-MA
LNKT080408PNR-MA
LNKT080404PNR-ML
LNKT080408PNR-ML
LNKT080404PNR-MM
LNKT080408PNR-MM

TP2PS-LN14

Ø25 ~ Ø50mm
Insert
LNKT140608PNR-MA
LNKT140608PNR-ML
LNKT140608PNR-MM

TP2PS-LN17

Ø40 ~ Ø125mm
Insert
LNKT170704PNR-MA
LNKT170708PNR-MA
LNKT170712PNR-MA
LNKT170716PNR-MA
LNKT170720PNR-MA
LNKT170704PNR-ML
LNKT170708PNR-ML
LNKT170712PNR-ML
LNKT170716PNR-ML
LNKT170720PNR-ML
LNKT170704PNR-MM
LNKT170708PNR-MM
LNKT170712PNR-MM
LNKT170716PNR-MM
LNKT170720PNR-MM

Future Mill

FMAC(M)3000/4000

3000 Type
: Ø50 ~ Ø125mm
Insert
SEET0903AGFN-MA
SEET0903AGSN-MF/MM
SEXT0903AGSN-MF/MM/MR
SEEW0903AGTN

4000 Type
: Ø80 ~ Ø160mm
Insert
SEET14M4AGFN-MA
SEET14M4AGSN-MF/MM
SEXT14M4AGSN-MF/MF/MR
SEEW14M4AGTN
SEEW14M4AGFN-W
SEEW14M4AGSN-W
SEEW14M4AGTN-W

FMAC(M)3000-A/4000-A

Aluminum Body

3000 Type
: Ø63 ~ Ø215mm
Insert
SEET0903AGFN-MA
SEET0903AGSN-MF/MM
SEXT0903AGSN-MF/MM/MR
SEEW0903AGTN

4000 Type
: Ø63 ~ Ø315mm
Insert
SEET14M4AGFN-MA
SEET14M4AGSN-MF/MM
SEXT14M4AGSN-MF/MM/MR
SEEW14M4AGTN
SEEW14M4AGFN-W
SEEW14M4AGSN-W
SEEW14M4AGTN-W

FMAS3000/4000

3000 Type
: Ø25 ~ Ø63mm
Insert
SEET0903AGFN-MA
SEET0903AGSN-MF/MM
SEXT0903AGSN-MF/MM/MR
SEEW0903AGTN

4000 Type
: Ø50 ~ Ø63mm
Insert
SEET14M4AGFN-MA
SEET14M4AGSN-MF/MM
SEXT14M4AGSN-MF/MM/MR
SEEW14M4AGTN
SEEW14M4AGFN-W
SEEW14M4AGSN-W
SEEW14M4AGTN-W

FMPC(M)3000/4000

3000 Type
: Ø50 ~ Ø100mm
Insert
SDET09M402R-MA
SDET09M405R-MF/MM
SDXT09M405R-MA
SDXT09M405R/L-MF
SDXT09M405R/L-MM

4000 Type
: Ø63 ~ Ø125mm
Insert
SDET130504R-MA
SDET130508R-MF/MM
SDXT130508R-MA
SDXT130508R-MF/MM

FMPC(M)3000-A/4000-A

Aluminum Body

3000 Type
: Ø63 ~ Ø100mm
Insert
SDET09M402R-MA
SDET09M405R-MF/MM
SDXT09M405R-MA
SDXT09M405R/L-MF
SDXT09M405R/L-MM

4000 Type
: Ø63 ~ Ø315mm
Insert
SDET130504R-MA
SDET130508R-MF/MM
SDXT130508R-MA
SDXT130508R-MF/MM

FMPS3000/4000

3000 Type
: Ø25 ~ Ø63mm
Insert
SDET09M402R-MA
SDET09M405R-MF/MM
SDXT09M405R-MA
SDXT09M405R/L-MF
SDXT09M405R/L-MM

4000 Type
: Ø40 ~ Ø63mm
Insert
SDET130504R-MA
SDET130508R-MF/MM
SDXT130508R-MA
SDXT130508R-MF/MM

Future Mill

FMRC(M)3000/4000

3000 Type
: Ø40 ~ Ø100mm
Insert
RDCT10T3M0-MA
RDKT10T3M0-MF/MM

4000 Type
: Ø50 ~ Ø125mm
Insert
RDCT1204M0-MA
RDKT1204M0-MF/MM

FMRC(M)5000/6000

5000 Type
: Ø50 ~ Ø125mm
Insert
RDCT10T3M0-MA
RDKT10T3M0-MF/MM

6000 Type
: Ø63 ~ Ø160mm
Insert
RDCT1204M0-MA
RDKT1204M0-MF/MM

FMRS1000/1500

1000 Type
: Ø8 ~ Ø15mm
Insert
RDHW0501M0E, F, S
RDKW0501M0E

1500 Type
: Ø10 ~ Ø20mm
Insert
RDHW06T1M0E, F, S
RDKW06T1M0E

FMRS2000/2500

2000 Type
: Ø15 ~ Ø20mm
Insert
RDHW0702M0E, F, S
RDKW0702M0E

2500 Type
: Ø16 ~ Ø25mm
Insert
RDHW0803M0E, F, S
RDKW0803M0E

Future Mill

FMRS3000/4000

▸ **3000 Type**
: Ø21 ~ Ø40mm
Insert
RDCT10T3M0-MA
RDKT10T3M0-MF/MM

▸ **4000 Type**
: Ø32 ~ Ø50mm
Insert
RDCT1204M0-MA
RDKT1204M0-MF/MM

FMRS5000/6000

▸ **5000 Type**
: Ø40 ~ Ø63mm
Insert
RDHW1605M0E, F, S
RDKT1605M0-MF/ML/MM

▸ **6000 Type**
: Ø50 ~ Ø63mm
Insert
RDHW2006M0E, F, S
RDKT2006M0-MM

FMRM1000/1500/2000/2500

▸ **1000/1500/2000/2500 Type**
: Ø8 ~ Ø25mm
Insert

RDHW0501M0E,F,S	RDHW0702M0E.F.S
RDKW0501M0E	RDKW0702M0E
RDHW06T1M0E,F,S	RDHW0803M0E,F,S
RDKW06T1M0E	RDKW0803M0E

• Please refer to page 104 for available adaptors

FMRM3000/4000/5000

▸ **3000/4000/5000 Type**
: Ø21 ~ Ø40mm
Insert

RDCT10T3M0-MA	RDKT1204M0-MF/MM
RDKT10T3M0-MF/MM	RDHW1605M0E, F, S
RDCT1204M0-MA	RDKT1605M0-MM/ML

• Please refer to page 104 for available adaptors

FMR P-positive

FMRC(M)3000/4000

▸ **3000 Type**
: Ø40 ~ Ø66mm
Insert
RPCT10T3M0-MA
RPET10T3M0E-ML
RPMT10T3M0E-MF
RPMT10T3M0S-MM
RPMW10T3M0E1

▸ **4000 Type**
: Ø50 ~ Ø100mm
Insert
RPCT1204M0-MA
RPET1204M0E-ML
RPMT1204M0E-MF
RPMT1204M0S-MM
RPMW1204M0S1
RPMW1204M0S2

FMRC(M)5000/6000

▸ **5000 Type**
: Ø63 ~ Ø160mm
Insert
RPCT1606M0-MA
RPET1606M0E-ML
RPMT1606M0E-MF
RPMT1606M0S-MM
RPMW1606M0S1

▸ **6000 Type**
: Ø63 ~ Ø250mm
Insert
RPCT2007M0-MA
RPET2007M0E-ML
RPMT2007M0E-MF
RPMT2007M0S-MM
RPMW2007M0S1

FMRS2500

▸ **2500 Type**
: Ø17 ~ Ø26mm
Insert
RPET0803M0E-ML
RPMT0803M0E-MF
RPMT0803M0S-MM
RPMW0803M0E1

FMRS3000/4000

▸ **3000 Type**
: Ø25 ~ Ø33mm
Insert
RPCT10T3M0-MA
RPET10T3M0E-ML
RPMT10T3M0E-MF
RPMT10T3M0S-MM
RPMW10T3M0E1

▸ **4000 Type**
: Ø25 ~ Ø50mm
Insert
RPCT1204M0-MA
RPET1204M0E-ML
RPMT1204M0E-MF
RPMT1204M0S-MM
RPMW1204M0S1
RPMW1204M0S2

FMRS5000

▸ **5000 Type**
: Ø40 ~ Ø50mm
Insert
RPCT1606M0-MA
RPET1606M0E-ML
RPMT1606M0E-MF
RPMT1606M0S-MM
RPMW1606M0S1

FMRS6000

▸ **6000 Type**
: Ø50mm
Insert
RPCT2007M0-MA
RPCT2007M0E-ML
RPMT2007M0E-MF
RPMT2007M0S-MM
RPMW2007M0S1

FMR P-positive

FMRM2500/3000/4000/5000

▸ **2500/3000/4000/5000 Type**
: Ø17 ~ Ø42mm
Insert

RPET0803M0E-ML	RPET10T3M0E-ML	RPET1204M0E-ML	RPCT1606M0-MA
RPMT0803M0E-MF	RPMT10T3M0E-MF	RPMT1204M0E-MF	RPET1606M0E-ML
RPMT0803M0S-MM	RPMT10T3M0S-MM	RPMT1204M0S-MM	RPMT1606M0E-MF
RPMW0803M0E1	RPMW10T3M0E1	RPMW1204M0S1	RPMT1606M0S-MM
RPCT10T3M0-MA	RPCT1204M0-MA	RPMW1204M0S2	RPMW1606M0S1

• Please refer to page 104 for available adaptors

Double-Mill

AFO(M)4000

▸ **4000 Type**
: Ø80 ~ Ø125mm
Insert

OFCW05T3FN	OFKT05T3EN-MA
OFCW05T3SN	OFKT05T3FN-MA
OFCW05T308FN	OFKT05T3SN-MF/MM
	OFKT05T308SN-MF/MM

AFO(M)5000

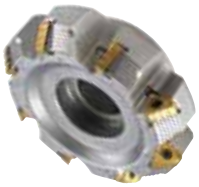
▸ **5000 Type**
: Ø80 ~ Ø315mm
Insert

OFCN0704FN	OFKR0704SN-MF/MM
OFCN0704SN	OFKR0704E(F)N-MA
OFCN070408FN	OFKR070408SN-MF/MM
OFCN070408SN	OFKT0704E(F)N-MA
	OFKT0704SN-MM
	REKR170400-MM

Power Buster

PBAC(M)5000

▸ **5000 Type**
: Ø80 ~ Ø315mm
Insert
TNMX2710AZNR-NM
TNMX2710AZNL-NM



PBZC(M)5000

▸ **5000 Type**
: Ø80 ~ Ø315mm
Insert
TNMX2710AZNR-NM
TNMX2710AZNL-NM

Mill-Max

ADN(M)4000/5000+

▸ **4000 Type**
: Ø80 ~ Ø315mm
Insert
SDCN42
SDCN1203
SDKN1203
SDKR1203

▸ **5000+ Type**
: Ø80 ~ Ø315mm
Insert
SDCN53
SDCN1504
SDKN1504
SDKR1504

AE(M)4000/5000

▸ **4000 Type**
: Ø80 ~ Ø315mm
Insert
SECN1203
SEKN1203
SEKR1203

▸ **5000 Type**
: Ø80 ~ Ø315mm
Insert
SECN1504
SEKN1504
SEKR1504

EF(M)4000

▸ **4000 Type**
: Ø80 ~ Ø315mm
Insert
SFCN1203EFR

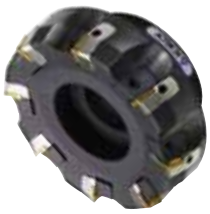
EN(M)4000

▸ **4000 Type**
: Ø80 ~ Ø315mm
Insert
SNCN1204ENN
SNKN1204ENN

Mill-Max

EPN(M)4000/5000+

- **4000 Type**
  : Ø80 ~ Ø315mm
  Insert
  SPCN1203
  SPKN1203
  SPKR1203
  SPEX1203
- **5000+ Type**
  : Ø80 ~ Ø315mm
  Insert
  SPCN1504
  SPKN1504
  SPKR1504
  SPEX1504

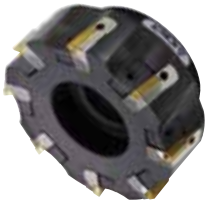


PF(M)4000

- **4000 Type**
  : Ø80 ~ Ø315mm
  Insert
  TFCN2203PFR
  TFCN2203PFL

PPN(M)4000

- **4000 Type**
  : Ø80 ~ Ø315mm
  Insert
  TPCN2204
  TPKN2204
  TPKR2204



Mill-Max Heavy

HDDCM7000/9000

- **7000 Type**
  : Ø125 ~ Ø315mm
  Insert
  SCKN220715DDSR-MM
- **9000 Type**
  : Ø125 ~ Ø315mm
  Insert
  SCKN280920DDSR-MM

Shave Mill

SVM(M)4000

- **4000 Type**
  : Ø80 ~ Ø315mm
  Insert
  SNEU120420-MF
  SNEU1204ANN-MF
  SNEU1204R-WMF
  SNEU1204-TBW

Shave Mill Ultra

SVUM6000

- **6000 Type**
  : Ø80 ~ Ø315mm
  Insert
  LNCS1907-R3.0-WC
  LNCS1907-C1.5-WC

SVUM6000-B

- **6000 Type**
  : Ø80 ~ Ø315mm
  Insert
  LNCS1907-R3.0-WC
  LNCS1907-C1.5-WC

High Feed Cutter

ANH4000/5000

- **4000 Type**
  : Ø100 ~ Ø450mm
  Insert
  SNCN1204ENN
  SNKN1204ENN
- **5000 Type**
  : Ø100 ~ Ø450mm
  Insert
  SNCN 1504ENN
  SNKN 1504ENN

CDH4000/5000

- **4000 Type**
  : Ø100 ~ Ø450mm
  Insert
  SDCN42R
  SDCN42L
- **5000 Type**
  : Ø100 ~ Ø450mm
  Insert
  SDCN53R
  SDCN53L

High Feed Cutter

DEH5000

Ø100 ~ Ø450mm

Insert

HECN090408FN
HECN090408SN
HECN090408TN

DPH5000

Ø100 ~ Ø450mm

Insert

HPEN090408FN
HPEN090408SN
HPEN090408EN
HPEN090408-WC

PNH4000/5000

Ø125 ~ Ø450mm

Insert

SNEF435

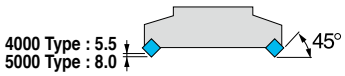
PPH4000

Ø125 ~ Ø450mm

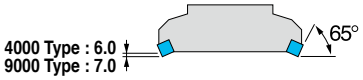
Insert

SPEN120416-WC

ANH Type



CDH Type



DEH Type

DPH Type

PNH/PPH Type

Multi Functional Cutters

Alpha Mill-X

AMXCM

Ø40 ~ Ø80mm

Insert

ADKT170604PESR-MM
ADKT170608PESR-MM
ADKT170608PESR-ML
ADKT170616PESR-ML
ADKT170620PESR-ML

AMXS

Ø20 ~ Ø40mm

Insert

ADKT170604PESR-MM
ADKT170608PESR-MM
ADKT170608PESR-ML
ADKT170616PESR-ML
ADKT170620PESR-ML

Alpha Mill

AMC(M)-S

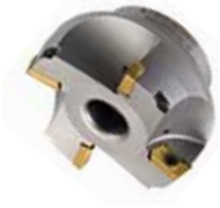
1000S, 1500S, 2000S, 3000S(-K), 4000S

- **1000 Type** : Ø32 ~ Ø63mm
- **1500 Type** : Ø40 ~ Ø100mm
- **2000 Type** : Ø40 ~ Ø100mm
- **3000 Type** : Ø40 ~ Ø100mm
- **4000 Type** : Ø50 ~ Ø200mm

AMC(M)-SE

1000SE, 2000SE, 3000SE

- **1000 Type** : Ø40 ~ Ø50mm
- **2000 Type** : Ø80 ~ Ø100mm
- **3000 Type** : Ø80 ~ Ø100mm



AMC(M)-M

2000M, 3000M, 4000M

- **2000 Type** : Ø50 ~ Ø100mm
- **3000 Type** : Ø63 ~ Ø100mm
- **4000 Type** : Ø63 ~ Ø125mm

AMS-S

1000S, 1500S, 2000S, 3000S, 3000S(-K), 4000S

- **1000 Type** : Ø10 ~ Ø33mm
- **1500 Type** : Ø10 ~ Ø40mm
- **2000 Type** : Ø10 ~ Ø63mm
- **3000 Type** : Ø25 ~ Ø63mm
- **4000 Type** : Ø20 ~ Ø63mm

AMS-SE

1000SE, 2000SE, 3000SE

- **1000 Type** : Ø25mm
- **2000 Type** : Ø25 ~ Ø63mm
- **3000 Type** : Ø50 ~ Ø63mm

AMS-M

1000M, 1500M, 2000M, 4000M

- **1000 Type** : Ø16 ~ Ø25mm
- **1500 Type** : Ø20 ~ Ø32mm
- **2000 Type** : Ø20 ~ Ø40mm
- **4000 Type** : Ø32 ~ Ø50mm

AMS-MH

1000MH, 1500MH, 2000MH, 3000MH-K

- **1000 Type** : Ø14 ~ Ø18mm
- **1500 Type** : Ø20mm
- **2000 Type** : Ø25 ~ Ø32mm
- **3000 Type** : Ø40mm

AMM

1000M, 1500M, 2000M

- **1000 Type** : Ø12 ~ Ø32mm
- **1500 Type** : Ø10 ~ Ø32mm
- **2000 Type** : Ø16 ~ Ø40mm

• Please refer to page 88 for available adaptors

BT Tooling system (Single)

AM1000HS, AM1500HS, AM2000HS, AM3000HS, AM4000HS

- **1000 Type** : Ø10 ~ Ø20mm
- **1500 Type** : Ø16 ~ Ø40mm
- **2000 Type** : Ø16 ~ Ø50mm
- **3000 Type** : Ø25 ~ Ø50mm
- **4000 Type** : Ø20 ~ Ø50mm

BT Tooling system (Multi)

AM1000, AM1500, AM2000, AM3000, AM4000

- **1000 Type** : Ø16 ~ Ø25mm
- **1500 Type** : Ø20 ~ Ø32mm
- **2000 Type** : Ø20 ~ Ø100mm
- **3000 Type** : Ø50 ~ Ø100mm
- **4000 Type** : Ø40 ~ Ø100mm

HSK Tooling system (Single)

AM1000HS, AM1500HS, AM2000HS, AM3000HS, AM4000HS

- **1000 Type** : Ø10 ~ Ø20mm
- **1500 Type** : Ø16 ~ Ø40mm
- **2000 Type** : Ø16 ~ Ø50mm
- **3000 Type** : Ø25 ~ Ø50mm
- **4000 Type** : Ø20 ~ Ø50mm

HSK Tooling system (Multi)

AM1000, AM1500, AM2000, AM3000, AM4000

- **1000 Type** : Ø16 ~ Ø25mm
- **1500 Type** : Ø20 ~ Ø32mm
- **2000 Type** : Ø20 ~ Ø100mm
- **3000 Type** : Ø50 ~ Ø100mm
- **4000 Type** : Ø40 ~ Ø100mm

Have Mill

HAVE (Multi Edge)

Ø16 ~ Ø50mm

Insert

XPMT0802ER-MM
XPMT1003ER-MM
XPMT13T3ER-MM
XPMT1604ER-MM
XPMT1805ER-MM
XPMT2006ER-MM
XPMT2507ER-MM

HAVE (Single Edge)

Ø16 ~ Ø50mm

Insert

XPMT0802ER-MM
XPMT1003ER-MM
XPMT13T3ER-MM
XPMT1604ER-MM
XPMT1805ER-MM
XPMT2006ER-MM
XPMT2507ER-MM

Turbo Mill

ADS4000/5000

▸ **4000 Type**
: Ø50 ~ Ø63mm
Insert
SDCN42
SDCN1203
SDKN1203
SDKR1203

▸ **5000 Type**
: Ø50 ~ Ø63mm
Insert
SDCN53
SDCN1504
SDKN1504
SDKR1504

PES2000/3000/4000

▸ **2000/3000/4000 Type**
: Ø20 ~ Ø63mm
Insert
TECN22R/TR
TECN32R/TR
TECN32TR-S20
TEEN43R/TR
TEEN43R-G
TEEN43TR-S20
TEEN43TR-Z
TEEN43TR-ZH

2000/3000 Type

4000 Type

Tank Mill

THE

Ø25 ~ Ø50mm

Insert

SPMT060304
SDMT090308-MM
SPMT120408-MM
APLT070304R
ADLT150308R
ZPMT1504PPSR-MM

T-Cutter

TFE

Ø21 ~ Ø50mm

Insert

CPMT060204-MM
CPMT080308-MM
CPMT09T308-MM
CPMH120408-MM

Chamfer Tool

CE (Back & Front)

▸ **Chamfer angles**
15°, 30°, 45°, 60°
Insert
SPMT110408-KC
SPMN120308

15-1125R-S20
30-1125R-S20
45-1107R-S20
45-1119R-S20
45-1125R-S20
60-1125R-S32
45-1207R-S32
45-1220R-S32
45-1225R-S32
45-1235R-S32

CE (Long Chamfer)

▸ **Chamfer angles**
30°, 45°, 60°
Insert
XCET310404ER-KC

30-3105R-S32
45-3105R-S32
60-3105R-S32

CE (Multi-functional)

▸ **Chamfer angles**
45°
Insert
TWX16R-KC
TWX22R-KC

45-1600R-S12
45-1600R-S20
45-1600R-L20
45-2200R-S12
45-2200R-S25
45-2200R-L25

CET

CET060-□□□
CET090-□□□
CET120-□□□

CCT

CCT060-□□□
CCT060T-□□□
CCT060T-□□□L
CCT090-□□□
CCT090T-□□□
CCT090T-□□□L
CCT120-□□□
CCT120T-□□□
CCT120T-□□□L

For Aluminum Milling

Pro-A Mill

PAC(M)2000/4000

- **2000/4000 Type** : Ø40 ~ Ø100mm

Insert
VCKT220530N-MA

PAS2000/4000

- **2000 Type** : Ø12 ~ Ø42mm

Insert
VDKT11T210N-MA
VDKT11T220N-MA

- **4000 Type** : Ø32 ~ Ø40mm

Insert
VCKT220530N-MA

PAM2000

- **2000 Type** : Ø12 ~ Ø42mm

Insert
VDKT11T210N-MA

• Please refer to page 104 for available adaptors

Pro-X Mill

PAXC(M)5000/6000

- **5000 Type** : Ø40 ~ Ø125mm

Insert
XEKT19M5□□FR-MA
XEKT19M5□□ER-ML

- **6000 Type** : Ø50 ~ Ø125mm

Insert
XEKT2506□□FR-MA
XEKT2506□□ER-ML

PAXS5000/6000

- **5000 Type** : Ø20 ~ Ø40mm

Insert
XEKT19M5□□FR-MA
XEKT19M5□□ER-ML

- **6000 Type** : Ø25 ~ Ø40mm

Insert
XEKT2506□□FR-MA
XEKT2506□□ER-ML

PAXM5000

- **5000 Type** : Ø25 ~ Ø40mm

Insert
XEKT19M5□□FR-MA
XEKT19M5□□ER-ML

• Please refer to page 104 for available adaptors

Pro-L Mill

PALCM

Ø63mm

Insert
LXET3405PEFR-63-MA/ML
LXET3405□□PEFR-63-MA/ML

PALS (Single Edge)

Ø32, Ø40mm

Insert
LXET2504PEER-□□-MA/ML
LXET2504□□PEER-□□-MA/ML
LXET2504PEFR-□□-MA/ML
LXET2504□□PEFR-□□-MA/ML

Ø50, Ø63mm

Insert
LXET3405PEER-□□-MA/ML
LXET3405□□PEER-□□-MA/ML
LXET3405PEFR-□□-MA/ML
LXET3405□□PEFR-□□-MA/ML

PALS (Multi Edge)

Ø63mm

Insert
LXET3405PEER-□□-MA/ML
LXET3405□□PEER-□□-MA/ML
LXET3405PEFR-□□-MA/ML
LXET3405□□PEFR-□□-MA/ML

Pro-XL Mill

PXL(S)

Ø40 ~ Ø80mm

Insert
LDET650540PPFR-MA
LDET650550PPFR-MA

Pro-V Mill

PAVCM-XD19

Ø40 ~ Ø125mm

Insert
XDET1905□□PEFR-MA

PAVS-XD19

Ø25 ~ Ø40mm

Insert
XDET1905□□PEFR-MA

HSK-XD19

Ø32 ~ Ø50mm

Insert
XDET1905□□PEFR-MA

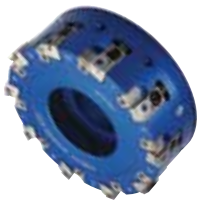
Aero Mill

APD(M)-A

Ø80 ~ Ø315mm

Insert

CDEW1204R/L-XCF
CDEW1204R/L-XAF
CDEW1204R-NAF
CDEW1204R/L-XAW
CDEW1204R-NAW



Aero Mill-Plus

APD(M)-PB

Ø80 ~ Ø315mm

Insert

BAMPR-XAF
BAMPR-XAW
BAMPR-XAWR

Aero Mill-Mini

MAPD000HR/L-Z0

Ø40 ~ Ø63mm

Insert

SNEW09T3ADFR
SNEW09T3ADTR-XAF
SNEW09T3ADTR-XAW
SNEW09T3ADTR-NAF
SNEW09T3ADTR-NAW

MAPDS000HR/L-Z0

Ø32 ~ Ø40mm

Insert

SNEW09T3ADFR
SNEW09T3ADTR-XAF
SNEW09T3ADTR-XAW
SNEW09T3ADTR-NAF
SNEW09T3ADTR-NAW

HRM/HRM Double Tools

HRMDC(M)09/13

- **09 Type**
  : Ø40 ~ Ø100mm
  Insert
  WNMX09T316ZNN-MF/ML/MM
- **13 Type**
  : Ø50 ~ Ø125mm
  Insert
  WNMX130520ZNN-MF/ML/MM

HRMDC(M)16

- **16 Type**
  : Ø80 ~ Ø315mm
  Insert
  WNMX160720ZNN-MF/ML/MM

HRMDS06

- **06 Type**
  : Ø16 ~ Ø33mm
  Insert
  WNMX060312ZNN-MF/ML/MM

HRMDS09/13

- **09 Type**
  : Ø25 ~ Ø50mm
  Insert
  WNMX09T316ZNN-MF/ML/MM
- **13 Type**
  : Ø32 ~ Ø63mm
  Insert
  WNMX130520ZNN-MF/ML/MM

HRMDM06

- **06 Type**
  : Ø16 ~ Ø33mm
  Insert
  WNMX060312ZNN-MF/ML/MM

• Please refer to page 104 for available adaptors

HRMDM09/13

- **09 Type**
  : Ø25 ~ Ø40mm
  Insert
  WNMX09T316ZNN-MF/ML/MM
- **13 Type**
  : Ø32 ~ Ø40mm
  Insert
  WNMX130520ZNN-MF/ML/MM

• Please refer to page 104 for available adaptors

HRMC(M)13/15

- **13 Type**
  : Ø50 ~ Ø80mm
  Insert
  WDKT130520ZDSR-MH
- **15 Type**
  : Ø63 ~ Ø160mm
  Insert
  WDKT150625ZDSR-MH

HRMS08/10

- **08 Type**
  : Ø20 ~ Ø21mm
  Insert
  WDKT080316ZDSR-MH
- **10 Type**
  : Ø25 ~ Ø30mm
  Insert
  WDKT10T320ZDSR-MH

HRMS13/15

- **13 Type**
  : Ø32 ~ Ø40mm
  Insert
  WDKT130520ZDSR-MH
- **15 Type**
  : Ø50 ~ Ø63mm
  Insert
  WDKT150625ZDSR-MH

HRMM08/10/13

- **08/10/13 Type**
  : Ø20 ~ Ø40mm
  Insert
  WDKT080316ZDSR-MH
  WDKT10T320ZDSR-MH
  WDKT130520ZDSR-MH

• Please refer to page 104 for available adaptors

HFM (High Feed Mill)

HFMS1000

- **1000 Type**
  : Ø15 ~ Ø21mm

Insert

LPMT040210R-MF
LPMT040220R-MF
LPMW040210R
LPMW040220R
LPEW040210R
LPEW040220R

HFMM1000

- **1000 Type**
  : Ø8 ~ Ø33mm

Insert

LPMT040210R-MF
LPMT040220R-MF
LPMW040210R
LPMW040220R
LPEW040210R
LPEW040220R

• Please refer to page 104 for available adaptors

HFMD (High Feed Mill Double)

HFMDCM-LN06

Ø32 ~ Ø66mm

Insert

LNMX060310R-MF
LNMX060310R-ML
LNMX060310R-MM

HFMDS-LN06

Ø16 ~ Ø40mm

Insert

LNMX060310R-MF
LNMX060310R-ML
LNMX060310R-MM

HFMDM-LN06

Ø16 ~ Ø42mm

Insert

LNMX060310R-MF
LNMX060310R-ML
LNMX060310R-MM

Side Cutters

Tangential Type (Full Side Cutter)

TAFCP(M)

Ø100 ~ Ø315mm

Insert

CNHQ1005-□□□
CNHQ1305-□□□
CNHQ1606-□□□

TAFCB(M)

Ø100 ~ Ø315mm

Insert

CNHQ1005-□□□
CNHQ1305-□□□
CNHQ1606-□□□

Tangential Type (Half Side Cutter)

TAHCP(M)

Ø100 ~ Ø315mm

Insert

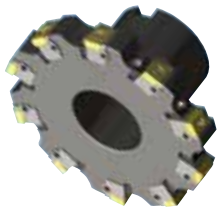
CNHQ1005-□□□
CNHQ1305-□□□
CNHQ1606-□□□

TAHCB(M)

Ø100 ~ Ø315mm

Insert

CNHQ1005-□□□
CNHQ1305-□□□
CNHQ1606-□□□



Radial Type (Full Side Cutter)

RAFCP(M)

Ø100 ~ Ø315mm

Insert

SDXT09M40□R/L
SDXT13050□R/L

RAFCB(M)

Ø100 ~ Ø315mm

Insert

SDXT09M40□R/L
SDXT13050□R/L

Radial Rype (Half Side Cutter)

RAHCP(M)

Ø100 ~ Ø315mm

Insert

SDXT09M40□R/L
SDXT13050□R/L

RAHCB(M)

Ø100 ~ Ø315mm

Insert

SDXT09M40□R/L
SDXT13050□R/L

Side Cutters

SPP(M)

Ø80 ~ Ø200mm

Insert

PNEJ12□□N

SPB(M)

Ø80 ~ Ø200mm

Insert

PNEJ12□□N

SPS

Ø50 ~ Ø200mm

Insert

SPFN200
SPFN300
SPFN400

Wind Mill

RAHCP(M) Boss Type

Ø80 ~ Ø250mm

Insert

SNHT11023□□R/L-WX	SNHT1205□R/L-WX
SNHT1103□□R/L-WX	SNHT12054□R/L-WX
SNHT1203□□R/L-WX	SNHT1206□□R/L-WX
SNHT12035□□R/L-WX	SNHT12065□□R/L-WX
SNHT1204□□R/L-WX	SNHT1207□□R/L-WX
SNHT12045□□R/L-WX	SNHT12075□□R/L-WX

RAHCB(M) Plane Type

Ø80 ~ Ø250mm

Insert

SNHT11023□□R/L-WX	SNHT1205□R/L-WX
SNHT1103□□R/L-WX	SNHT12054□R/L-WX
SNHT1203□□R/L-WX	SNHT1206□□R/L-WX
SNHT12035□□R/L-WX	SNHT12065□□R/L-WX
SNHT1204□□R/L-WX	SNHT1207□□R/L-WX
SNHT12045□□R/L-WX	SNHT12075□□R/L-WX

Endmills / Drills

KORLOY provides high quality endmills and drills thanks to its advanced technology and accumulated know-how of tooling systems, carrying out values for higher productivity and quality results.

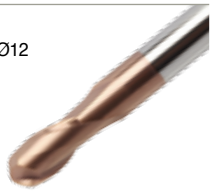
- Solid Endmills
- Solid Drills
- Indexable Drills / Indexable Endmills

Solid Endmills

H Endmill

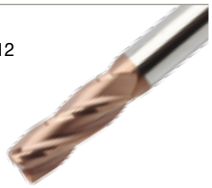
PBE2000 (Ball)

No. of flutes : 2
Cutting diameter : Ø0.5 ~ Ø12



PRE4000 (Radius)

No. of flutes : 4
Cutting diameter : Ø3 ~ Ø12



V Endmill

VFE4000 (Flat)

No. of flutes : 4
Cutting diameter : Ø2.5 ~ Ø16

Z Endmill

ZFE2000 (Flat)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø16

ZFE4000 (Flat)

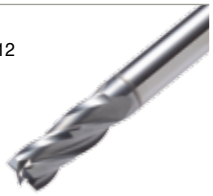
No. of flutes : 4
Cutting diameter : Ø1 ~ Ø16

ZSFE2000 (Short Flat)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø12

ZSFE4000 (Short Flat)

No. of flutes : 4
Cutting diameter : Ø1 ~ Ø12



ZBE2000 (Ball)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø12

F Endmill

FME4000 (High feed)

No. of flutes : 4
Cutting diameter : Ø6 ~ Ø12

FMLE4000 (High feed long)

No. of flutes : 4
Cutting diameter : Ø6 ~ Ø12

T Endmill

TZBE (Ball)

No. of flutes : 2
Cutting diameter : Ø0.6 ~ Ø3

TTBE (Ball)

No. of flutes : 2
Cutting diameter : Ø0.6 ~ Ø3

TWBE (Ball)

No. of flutes : 2
Cutting diameter : Ø0.6 ~ Ø3

D Endmill

DFE2000 (Flat)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø12

DFE4000 (Flat)

No. of flutes : 4
Cutting diameter : Ø2 ~ Ø12

DBE2000 (Ball)

No. of flutes : 2
Cutting diameter : Ø0.6 ~ Ø12

DBE4000 (Ball)

No. of flutes : 4
Cutting diameter : Ø2 ~ Ø12

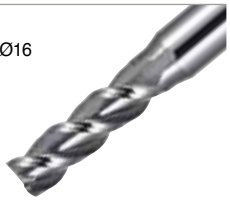
Endmills for Specific Aluminum

SSEA2000 (Flat)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø20

SSEA3000 (Flat)

No. of flutes : 3
Cutting diameter : Ø2 ~ Ø16



SSBEA2000 (Ball)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø20

C-Max

CFE2000 (Flat)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø12

CFNE2000 (Long Neck Flat)

No. of flutes : 2
Cutting diameter : Ø0.5 ~ Ø4

CBE2000 (Ball)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø12

CBNE2000 (Long Neck Ball)

No. of flutes : 2
Cutting diameter : Ø0.5 ~ Ø4

CRE2000 (Radius)

No. of flutes : 2
Cutting diameter : Ø2 ~ Ø12

CRNE2000 (Long Neck Radius)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø4

Super Endmill

SRES4000

No. of flutes : 4
Cutting diameter : Ø3 ~ Ø20

Composite Router Endmill

CCDR4000

No. of flutes : 4
Cutting diameter : Ø6 ~ Ø8

CCDR6000

No. of flutes : 6
Cutting diameter : Ø10 ~ Ø12

CCHR4000

No. of flutes : 4
Cutting diameter : Ø6 ~ Ø8

CCHR6000

No. of flutes : 6
Cutting diameter : Ø10 ~ Ø12

CCR2000

No. of flutes : 2
Cutting diameter : Ø4 ~ Ø12

CCLR4000

No. of flutes : 4
Cutting diameter : Ø4 ~ Ø12

CCRR6000

No. of flutes : 6
Cutting diameter : Ø6 ~ Ø8

CCRR8000

No. of flutes : 8
Cutting diameter : Ø10 ~ Ø12

I⁺ Endmill

IPFE2000 (Flat)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø20

IPFE4000 (Flat)

No. of flutes : 4
Cutting diameter : Ø1 ~ Ø20

IPLFE2000 (Long Flat)

No. of flutes : 2
Cutting diameter : Ø6 ~ Ø12

I⁺ Endmill

IPLFE4000 (Long Flat)

No. of flutes : 4
Cutting diameter : Ø6 ~ Ø12

IPBE2000 (Ball)

No. of flutes : 2
Cutting diameter : Ø0.5 ~ Ø10

IPBE4000 (Ball)

No. of flutes : 4
Cutting diameter : Ø0.5 ~ Ø10

IPLBE2000 (Long Ball)

No. of flutes : 2
Cutting diameter : Ø0.5 ~ Ø8

IPRE2000 (Radius)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø12

IPRE4000 (Radius)

No. of flutes : 4
Cutting diameter : Ø2 ~ Ø12

IPLRE2000 (Long Radius)

No. of flutes : 2
Cutting diameter : Ø3 ~ Ø12

IPLRE4000 (Long Radius)

No. of flutes : 4
Cutting diameter : Ø3 ~ Ø12

Z⁺ Endmill

ZPFE2000 (Flat)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø20

ZPSFE2000 (Short Flat)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø16

ZPLFE2000 (Long Flat)

No. of flutes : 2
Cutting diameter : Ø2 ~ Ø20

ZPLFE2000 (Long Flute)

No. of flutes : 2
Cutting diameter : Ø2 ~ Ø20

ZPFE4000 (Flat)

No. of flutes : 4
Cutting diameter : Ø1 ~ Ø20

ZPSFE4000 (Short Flat)

No. of flutes : 4
Cutting diameter : Ø1 ~ Ø16

Z+ Endmill

ZPLFE4000 (Long Flat)

No. of flutes : 4
Cutting diameter : Ø2 ~ Ø20

ZPLFE4000 (Long Flute)

No. of flutes : 4
Cutting diameter : Ø1 ~ Ø20

ZPFE3000 (Flat)

No. of flutes : 3
Cutting diameter : Ø2 ~ Ø25

ZPFE6000 (Flat)

No. of flutes : 6
Cutting diameter : Ø6 ~ Ø20

ZPBE2000 (Ball)

No. of flutes : 2
Cutting diameter : Ø0.8 ~ Ø20

ZPLBE2000 (Long Ball)

No. of flutes : 2
Cutting diameter : Ø2 ~ Ø12

ZPBE4000 (Ball)

No. of flutes : 4
Cutting diameter : Ø2 ~ Ø20

ZPRE2000 (Radius)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø16

ZPLRE2000 (Long Radius)

No. of flutes : 2
Cutting diameter : Ø6 ~ Ø16

ZPRE4000 (Radius)

No. of flutes : 2
Cutting diameter : Ø1.5 ~ Ø16

ZPLRE4000 (Long Radius)

No. of flutes : 4
Cutting diameter : Ø6 ~ Ø16

S+ Endmill

SPFE4000 (Flat)

No. of flutes : 4
Cutting diameter : Ø1 ~ Ø12

SPLFE4000 (Long Flat)

No. of flutes : 4
Cutting diameter : Ø1 ~ Ø12

S+ Endmill

SPFE4000 (Flat)

No. of flutes : 4
Cutting diameter : Ø1 ~ Ø12

SPLFE4000 (Long Flat)

No. of flutes : 4
Cutting diameter : Ø1 ~ Ø12

R+ Endmill

RPAE

Roughing Endmill for Wave Form of Al

No. of flutes : 3
Cutting diameter : Ø6 ~ Ø25

RPE-FP-H

Standard Roughing Endmill for Fine Pitches

No. of flutes : 4
Cutting diameter : Ø5 ~ Ø20

RPLE-FP-H

Long Type Roughing Endmill for Fine Pitches

No. of flutes : 4
Cutting diameter : Ø5 ~ Ø20

RPE-XG

Roughing Endmill with Finishing Capability

No. of flutes : 4
Cutting diameter : Ø6 ~ Ø20

RPE-FP-L

Roughing Endmill for Fine Pitches

No. of flutes : 4
Cutting diameter : Ø5 ~ Ø20

RPE-RG

Standard Roughing Endmill

No. of flutes : 4
Cutting diameter : Ø5 ~ Ø20

RPE-RG

4F Roughing Endmill

No. of flutes : 4
Cutting diameter : Ø6 ~ Ø20

RPE-FF

Roughing Endmill for Fine Pitches

No. of flutes : 4
Cutting diameter : Ø6 ~ Ø20

RPE-FP

Roughing Endmill for Fine Pitches

No. of flutes : 4
Cutting diameter : Ø6 ~ Ø20

RPE-RG

Roughing Endmill

No. of flutes : 4
Cutting diameter : Ø6 ~ Ø20

A+ Endmill

APFE2000 (Flat)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø20

APFE3000 (Flat)

No. of flutes : 3
Cutting diameter : Ø1 ~ Ø20

APMFE2000 (Middle Flat)

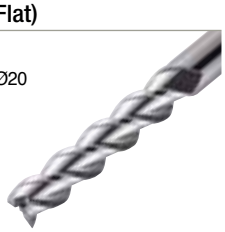
No. of flutes : 2
Cutting diameter : Ø3 ~ Ø20

APMFE3000 (Middle Flat)

No. of flutes : 3
Cutting diameter : Ø3 ~ Ø20

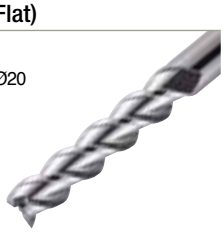
APLFE2000 (Long Flat)

No. of flutes : 2
Cutting diameter : Ø3 ~ Ø20



APLFE3000 (Long Flat)

No. of flutes : 3
Cutting diameter : Ø3 ~ Ø20



APBE2000 (Ball)

No. of flutes : 2
Cutting diameter : Ø1 ~ Ø12

AFE3000 (Short Flat)

No. of flutes : 3
Cutting diameter : Ø1 ~ Ø20

AFE3000 (Flat)

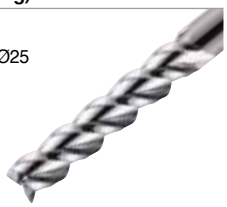
No. of flutes : 3
Cutting diameter : Ø1 ~ Ø20

AFE3000 (Long Flat)

No. of flutes : 3
Cutting diameter : Ø1 ~ Ø20

APRE3000 (Roughing)

No. of flutes : 3
Cutting diameter : Ø4 ~ Ø25



RPAE3000 (Wave Roughing)

No. of flutes : 3
Cutting diameter : Ø6 ~ Ø25

PCD Endmills

PDE1000 (Flat)

No. of flutes : 1
Cutting diameter : Ø4.6 ~ Ø6

PDE2000 (Flat)

No. of flutes : 2
Cutting diameter : Ø6.0 ~ Ø12

Brazed Endmills

ZSE200 (Flat)

No. of flutes : 2
Cutting diameter : Ø14 ~ Ø50

ZSE300 (Flat)

No. of flutes : 3
Cutting diameter : Ø14 ~ Ø50

ZSE400 (Flat)

No. of flutes : 4
Cutting diameter : Ø14 ~ Ø50

ZSE600 (Flat)

No. of flutes : 6
Cutting diameter : Ø34 ~ Ø50

ZSEA200 (Flat)

No. of flutes : 2
Cutting diameter : Ø15 ~ Ø50

ZSEL200 (Long Flat)

No. of flutes : 2
Cutting diameter : Ø14 ~ Ø50

ZSEL400 (Long Flat)

No. of flutes : 4
Cutting diameter : Ø16 ~ Ø40

ZSEXL200 (Long Flat)

No. of flutes : 2
Cutting diameter : Ø20 ~ Ø25

ZSBE200 (Ball)

No. of flutes : 2
Cutting diameter : Ø13 ~ Ø50

Mach Solid Drill Plus

MSDP

Aspect Ratio(L / D) : 3, 5, 7
Cutting diameter : Ø1 ~ Ø20

MSDP□□□-□P/M/K/N

MSDPH

Oil hole type

Aspect Ratio(L / D) : 3, 5, 7
Cutting diameter : Ø2 ~ Ø20

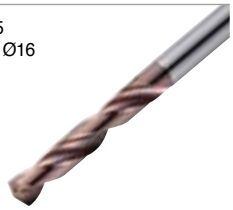
MSDPH□□□-□P/M/K/N

Mach Solid Drills Plus-S

MSDPH-S

Aspect Ratio(L / D) : 3, 5
Cutting diameter : Ø3 ~ Ø16

MSDPH□□□-□S



Mach Solid Drill Plus CFRP-C

MSDP-C

Aspect Ratio(L / D) : 5
Cutting diameter : Ø3 ~ Ø12.7

MSDPH□□□-□5S

MSFD

MSFD

Aspect Ratio(L / D) : 2
Cutting diameter : Ø2.5 ~ Ø16

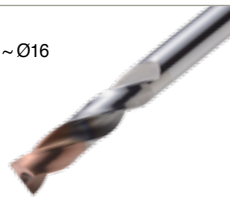
MSDP□□□-□P/M/K/N

MSFDH

Oil hole type

Aspect Ratio(L / D) : 3
Cutting diameter : Ø2.5 ~ Ø16

MSDPH□□□-□P/M/K/N



Mach Long Drills Plus

MLDP

Aspect Ratio(L / D) : 10, 15, 20, 25
Cutting diameter : Ø3 ~ Ø10

MLD□□□□N-□□P/K/N

Vulcan Drills

VZD

VZD-MA, MBA
Cutting diameter : Ø12.6 ~ Ø40.5

VZD

VZD-LA, LBA
Cutting diameter : Ø12.6 ~ Ø40.5

ESD Plus

ESDP

Aspect Ratio(L / D) : 3, 5, 7
Cutting diameter : Ø1 ~ Ø20

ESDP□□□-□P

SSD Plus

SSDP

Aspect Ratio(L / D) :
Cutting diameter : Ø1 ~ Ø15

SSDP□□□

Indexable Drills

King Drill

King Drill (2D/3D/4D/5D)

Ø12 ~ Ø60.5mm

Insert

Inner	Outer
SPMT040204-PD	XOMT040204-PD
SPMT050204-PD	XOMT050204-PD
SPMT060205-PD	XOMT060204-PD
SPMT07T208-PD	XOMT07T205-PD
SPMT090308-PD	XOMT090305-PD
SPMT11T308-PD	XOMT11T306-PD
SPMT130410-PD	XOMT130406-PD
SPMT15M510-PD	XOMT15M508-PD
SPMT180510-PD	XOMT180508-PD

King Drill-HP (2D/3D/4D)

Ø13 ~ Ø29mm

Insert

Inner	Outer
SPMT040204-PD	XOMT040204-PD
SPMT050204-PD	XOMT050204-PD
SPMT060205-PD	XOMT060204-PD
SPMT07T208-PD	XOMT07T205-PD
SPMT090308-PD	XOMT090305-PD

King Drill

For large diameter drilling

KING DRILL- Cartridge Type
Ø61 ~ Ø100mm

Cartridge

Inner		Outer	
KDC6165C	KDC8085C	KDC6165P	KDC8085P
KDC6570C	KDC8590C	KDC6570P	KDC8590P
KDC7075C	KDC9095C	KDC7075P	KDC9095P
KDC7580C	KDC95100C	KDC7580P	KDC95100P

King Drill Insert

	PD	LD	ND	RD
Inner	 SPMT-PD	 SPMT-LD	 SPET-ND	 XOMT-RD
Outer	 XOMT-PD	 XOMT-LD	 XOET-ND	

TPDB Plus

TPDB Plus (3D/5D/8D/10D/12D)

Ø10 ~ Ø32.9mm

Insert
TPD100B~TPD329B

TPDB-H

TPDB-H (3D/4D/8D)

Ø14 ~ Ø30.4mm

Insert
TPD140B-H~TPD309B-H

TPDC

TPDC (3D/5D/8D/10D/12D)

Ø12 ~ Ø30.9mm

Insert
TPDC1200CP, CM, CN
~ TPDC3050CP, CM, CN

WPDC

WPDC (5D/6.5D/8D)

Standard type
Ø25 ~ Ø40mm

Insert
WC□T030204-C21
WC□T040204-C21
WC□T050308-C21

WPDC (5D/6.5D/8D)

Single insert catridge type
Ø41 ~ Ø59mm

Insert
WC□T06T308-C21
WC□T080408-C21

WPDC (5D/6.5D/8D)

Dual insert cartridge type
Ø60 ~ Ø80mm

WSP
WC□T050308-C21
WC□T06T308-C21

Indexable Endmill

BFE

Ø16 ~ Ø32

RC16
RC20
RC25
RC30
RC32

BRE

Ø20 ~ Ø50

SDMT090308-MM	ZDMT130416R-MM
SPMT060304	ZPMT160520R-MM
SPMT120408-MM	ZPMT160525R-MM
SPMT120508-MMN	ZPMT160531.5R-MM
ZDMT080310R-MM	ZPMT160525R-MR
ZDMT110312.5R-MM	

GBE

Single Edge : Ø16 ~ Ø50

Internal : M External : S

ZPET080M(S)-MM	ZPET140M(S)-MM
ZPET090M(S)-MM	ZPET150M(S)-MM
ZPET100M(S)-MM	ZPET160M(S)-MM
ZPET110M(S)-MM	ZPET200M(S)-MM
ZPET125M(S)-MM	ZPET250M(S)-MM
ZPET130M(S)-MM	

GBE-M

Multi Edge : Ø20 ~ Ø50mm

Internal : M External : S

ZPET100M(S)-MM	ZPET150M(S)-MM
ZPET110M(S)-MM	ZPET160M(S)-MM
ZPET125M(S)-MM	ZPET200M(S)-MM
ZPET130M(S)-MM	ZPET250M(S)-MM
ZPET140M(S)-MM	

Ext.Principal :

SPMT060304	SPMT120408-MM
SDMT090308-MM	

GBEM

Ø16 ~ Ø32mm

Internal : M External : S

ZPET080M(S)-MM
ZPET100M(S)-MM
ZPET125M(S)-MM
ZPET150M(S)-MM
ZPET160M(S)-MM

Laser Mill

LBE (08/10/12/16/20/25/30/32)

Carbide Shank-Ball type (Straight type)

LBE080080S-S08C	LBE120100S-S12C	LBE200120S-S20C	LBE300140S-S32C
LBE080100S-S08C	LBE120150S-S12C	LBE200170S-S20C	LBE300170S-S32C
LBE080020S-S08C-130	LBE120025S-S12C-150	LBE200035S-S20C-190	LBE300050S-S32C-230
LBE080020S-S08C-150	LBE120025S-S12C-200	LBE200035S-S20C-240	LBE300050S-S32C-260
LBE100080S-S10C	LBE160100S-S16C	LBE250140S-S25C	LBE320140S-S32C
LBE100120S-S10C	LBE160150S-S16C	LBE250170S-S25C	LBE320170S-S32C
LBE100023S-S10C-130	LBE160030S-S16C-160	LBE250040S-S25C-220	LBE320050S-S32C-230
LBE100023S-S10C-170	LBE160030S-S16C-210	LBE250040S-S25C-250	LBE320050S-S32C-260

LBE (08/10/12/16/20/25/30/32)

Steel Shank-Ball type (Taper type)

LBE080035T-S12	LBE160100T-S20
LBE080055T-S12	LBE200075T-S20
LBE080075T-S12	LBE200115T-S25
LBE100035T-S12	LBE250090T-S25
LBE100055T-S12	LBE250135T-S32
LBE100075T-S12	LBE300105T-S32
LBE120055T-S12	LBE300160T-S32
LBE120085T-S16	LBE320105T-S32
LBE160065T-S16	LBE320160T-S32

LBE (12/16/20/25/30/32)

Steel Shank-Ball type (Straight type)

LBE120035S-S12	LBE250045S-S25
LBE160035S-S16	LBE300055S-S32
LBE200040S-S20	LBE320055S-S32

Laser Mill

LRE (10/12/16/20/25/30/32)

Carbide Shank-Corner R type (Straight type)

LRE100080S-S10C	LRE120025S-S12C-200	LRE200035S-S20C-190	LRE300170S-S32C
LRE100120S-S10C	LRE160100S-S16C	LRE200035S-S20C-240	LRE300050S-S32C-230
LRE100023S-S10C-130	LRE160150S-S16C	LRE250140S-S25C	LRE300050S-S32C-260
LRE100023S-S10C-170	LRE160030S-S16C-160	LRE250170S-S25C	LRE320140S-S32C
LRE120100S-S12C	LRE160030S-S16C-210	LRE250040S-S25C-220	LRE320170S-S32C
LRE120150S-S12C	LRE200120S-S20C	LRE250040S-S25C-250	LRE320050S-S32C-230
LRE120025S-S12C-150	LRE200170S-S20C	LRE300140S-S32C	LRE320050S-S32C-260

LRE (10/12)

Steel Shank-Corner R type (Taper type)

LRE100025T-S12
LRE100050T-S12
LRE120060T-S16

LRE (12/16/25/30/32)

Steel Shank-Corner R type (Straight type)

LRE120030S-S12
LRE160050S-S16
LRE160060S-S16
LRE200060S-S20
LRE200080S-S20
LRE250070S-S25
LRE250100S-S25
LRE300070S-S32
LRE300100S-S32
LRE320080S-S32
LRE320100S-S32

LBE-MHD

LBE100-MHD-M06
LBE120-MHD-M06
LBE160-MHD-M08
LBE200-MHD-M10
LBE250-MHD-M12
LBE300-MHD-M16
LBE320-MHD-M16

• Please refer to page 88 for available adaptors

Shank Adaptor for Modular Head

MAT (Steel Shank type)

Available to use

(FMRM, LBE, PAM, PAXM, AMM, RM3PM, RM4PM, RM4ZM, RM6PM, HFMDM, HFMM, HRMM, HRMDM, GBEM)

MAT-M06-020-S10S	MAT-M10-050-S20T
MAT-M6B-020-S12S	MAT-M10-070-S20T
MAT-M6B-040-S12S	MAT-M10-090-S25T
MAT-M08-020-S16S	MAT-M10-110-S25T
MAT-M10-030-S20S	MAT-M10-130-S32T
MAT-M12-030-S25S	MAT-M12-050-S25T
MAT-M16-035-S32S	MAT-M12-070-S25T
MAT-M06-040-S12T	MAT-M12-090-S25T
MAT-M06-065-S16T	MAT-M12-110-S32T
MAT-M6B-065-S16T	MAT-M12-175-S40T
MAT-M6B-080-S16T	MAT-M16-055-S32T
MAT-M08-040-S16T	MAT-M16-080-S32T
MAT-M08-065-S16T	MAT-M16-120-S32T
MAT-M08-080-S20T	MAT-M16-175-S40T
MAT-M08-110-S25T	

MAT-C (Carbide Shank type)

Available to use

(FMRM, LBE, PAM, PAXM, AMM, RM3PM, RM4PM, RM4ZM, RM6PM, HFMDM, HFMM, HRMM, HRMDM, GBEM)

MAT-M06-030-S10S-C-80	MAT-M10-010-S20S-C-170
MAT-M06-050-S10S-C-100	MAT-M10-010-S20S-C-200
MAT-M06-080-S10S-C-130	MAT-M10-010-S20S-C-300
MAT-M6B-030-S12S-C-80	MAT-M12-090-S25S-C
MAT-M6B-050-S12S-C-100	MAT-M12-110-S25S-C
MAT-M6B-080-S12S-C-130	MAT-M12-175-S25S-C
MAT-M08-080-S16S-C	MAT-M12-015-S25S-C-170
MAT-M08-110-S16S-C	MAT-M12-015-S25S-C-200
MAT-M08-150-S16S-C	MAT-M12-015-S25S-C-300
MAT-M08-010-S16S-C-150	MAT-M16-090-S32S-C
MAT-M08-010-S16S-C-180	MAT-M16-120-S32S-C
MAT-M08-010-S16S-C-250	MAT-M16-175-S32S-C
MAT-M10-090-S20S-C	MAT-M16-020-S32S-C-180
MAT-M10-110-S20S-C	MAT-M16-020-S32S-C-210
MAT-M10-175-S20S-C	MAT-M16-020-S32S-C-300

Comparison of Chip Breakers

				KORLOY	KYOCERA	TAEGUTEC	SUMITOMO	SANDVIK	KENNAMETAL	ISCAR	WLATER	MITSUBISHI	SECO	TUNGALLOY
NEGATIVE	P	Application	Ultra-Finishing	-	DP (G-class)	-	FA	PMC	FF (G-class)	SF	-	PK (G-class), FY	FF1	TF
				VL	GP	FA	FL, FB	QF	UF	PF	NF3	FH, FS, SY	FF2	NS, ZF
			Finishing	VF	PP	FG	LU, FE	PF, XF	FN	NF, SM	NF4	FP		NM, NS, SS
				VB	-	SF	SU	61	K	F3P	FP5	LP, SH, SA	MF2	TS, TSF
			Medium to finishing	VQ, VC	HQ, CQ	MC	SE	HM	LF, CT	TF	NS6	C (Cermet)		AS
				LP	PQ, CJ	FC	SX	PMC	-	-	MP3	MV	MF5	ZM, AM
			Medium machining	VM, HM	HK, GS, HS, PS	MP, MT	GU (UG)	QM, SM	MP, MN	PP, TF	NM4, NP5	MA, MH	M3, M5	TQ, TM
				MP	PG	PC	GE, UX	PM, XM	-	M3P	MP5	MP	-	DM, None C/B
			Roughing	B25				-	RP, MR	GN	-	GM, None C/B	M5	TH
				GR	PT, GT, HT, PH	RT	MU, ME, MX	PR, WR	RN, None C/B	R3P	RP5, NM9	GH, RP	MR5, MR6, MR7	THS
			Heavy duty machining	GH	PX	HB, RH, RX	HG, MP	PR, XMR	RH	NR, HT	RP7, NR4, NRF	HZ	R4, R5	CH
				VH	-	HZ, EH	HP	QR	RM	HR	NRR, NR8	HX	R6, R7, R8, PR6	THS, TRS
				VT	-	HT, HY, HD	HU, HW, HF	HR	MM	T3P	-	HV	PR9, R56, R57, R68	65, TUS
		Low carbon steel	Soft steel	VL	XF, XP, XP-T	SF	FL	LC	-	-	-	FY	-	-
				-	XQ, XS	-	-	-	-	-	-	SY	-	-
		High feed	Wiper	VW	WP, WF	WS	LUW, SEW	WF, WL	FW	WF	NF	SW	FF2, MF2	AFW, FW
				LW	WQ, WE	WT	GUW	WM, WMX	MW	WG	NM	MW	MF5, M3	ASW, SW
				-	-	-	-	WR	RW	-	-	-	R4, R7	-
		Application	Shaft (long bar)	SH	CJ, ST	FS, VF, FX	HM	K	-	-	-	ES	UX	P, S
				KNUX-	KNMX-	KNUX-	-	KNUX-71	-	-	-	KNMX-19	-	KNMX
	M	Stainless steel	Finishing	VP2, MP	MQ, GU, SK	EA, SF	SU, EF	MF, XF	FP, FF	SF, VL, F3M	NF4, FM5	SH, LM	FF1, MF1	SS, SF, SA
			Medium cutting	MM	HU, TK, MS	MP, EM	EX, EG, GU	MM,XM,QM,MMC	MP, UP, MS	PP, TF, M3M	NM4, NR4	MS, GM, MM	MF3, MF4	SM
			Roughing	RM	MU	ET	MU, HM, EM	MR, XMR, MRR	RP, P	MR, R3M	RM5, NRS	MA, ES	MF5, M5	S, SH
	K	Cast iron	Finishing	MP	None C/B, C, KQ	MT	UZ	KF, PMC, XF	T-20, FN	TF	NM, MK5	LK, MA	M4	CF
			Medium cutting	B25, MK	ZS, KG	RT, KT	UX, GZ	KM, XM	UN, RP	GN	NM5, RK5	MK, GK, None C/B	M5	CM, None C/B
			Roughing	-MA, RK	-MA, GC, KH	-MA	-MA	KR, XMR, KRR	MR, S-20, -MA	-MA, NR	-MA, RK7	RK, -MA	MR7	CH
	S	HRSA	Ultra-finishing	VP1	MQ, SK	EA	EF	SF, SGF	FS (G-class) LF (G-class)	SF, PF	NF4	FJ(G-class)	M1	SF
			Finishing	VP2	TK	ML	UP, EG	23.SR, XF, SMC	UP	PP	NFT	LS	MF1	HMM
			Medium cutting	VP3	MS	EM	EX	SM, SMR, XM	MS, GP, P, UN	TF	NMS, NMT	MS	MF4, MR3	HRF
			Roughing	VP4	MU	ET	MU	XMR	RP	MR	NRS, NRT	RS, GJ	MR4	HRM
	N	Aluminium alloy		HA	AH	ML	AX	23	GP, MS	NF, PP	FN2, PF2, MN2, PM2	MJ	MF1	P
POSITIVE	P M K	Application	Finishing	VL	XP, PP	FA, FX	FC	PF, XF	11	PF	FP4	SMG (G-class), FV	FF1	01
				VF	GP	-	FB, LU (FP,FK)	UF	UF	F3P	FK6	SV, FP	F1	PSF, PF
			Medium cutting	HMP	XQ	FG	LB, NF	PM, XM	LF, FP	14	MP4,FM2,FM4,MK4	LP	MF2	PSS
				MP	HQ, GK	PC, FM	SU, SC	UM, PMC	MP, T-20	SM	FP6,MM4,FM6,RK4	MV	F2, M3	PS
			Roughing	C25	None C/B	MT	MU	PR, UR, XR	MF, GM, -C	19	RP4, RM4, RK6	None C/B, MP	M5	PM
			Wiper	-	WP	-	LUW	WL, WF	FW	WF	PM	SW	-	-
				-	-	WT	SDW	WM, WMX	MW	WG	-	MW	-	-
	M S	Stainless steel For HRSA	Finishing	VP1	CF, GF, GQ	FG	FC, FM	MF, MM, MMC	11, UF, LF	PF	FM4, NM4	FJ (G-class), FM, LM	F1, MF2	PSF, PSS
			Medium to finish cutting	VL	MQ, MF	SA	LB, SI	MR, XR, SMC	MF	SM, M3M	RM4	MM, None C/B	M3, M5	PS, PM
	K	Cast iron	Medium cutting	MP	HQ	PC	MU	KF, KM	LF	17	FK6	MK	M3	CM
			Roughing	C25	GK	MT	None C/B	KR	MF, UF	19	MK4, RK6	None C/B, -MW	M5	None C/B
	N	Aluminium alloy		AK, AR	AH	FL	AW, AG, AY	AL	HP, LF	AS, AF	PM2	AZ, FS	AL	AL
	High precision bar turning (tolerance class G&E)			KF, KM	FSF, USF, J, A3	GF, FF, GW	FY, FX, FZ	K, F, UM	GH	LF, RF, XL	-	F, SR, SS, SM	UX	JS, J10, JRP, JPP

The comparison of grades for turning

WC

ISO		KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Turning	P	ST10 ST20 ST30A	ST10P ST20E A30 ST40E	PW30	IC50M IC54	S1P SM30 S30T S6	TTX TTM TTR	K45 KM K420	TX10S TX20 TX30 TX40	STi10T STi20T UTi20T	SRN5 WS20B EX35 EX40 EX45	S1F VC6 VC5 VC56		P10 P20 P30 P40		
	M	U20	U10E U2 A30 A40			H13A H10F	AT10 AT15 TTR	K2885 K2S	TU10 TU20 TU40	UTi20T	WAM10B EX35	VC27 VC28		M10 M20 M40		
	K	H01 H05 G10	H1 G10E	KW10H	IC4 IC20 IC28	H1P H10F	THM THR	K68 K8735	TH03 TH10 KS20	HTi10T HTi20T	WH05 W10 WH20	VC3 VC2 VC1		K10 K20 K20M K30		

CVD coated

ISO		KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Turning	P	NC3215★ NC3225★ NC3120 NC3030 NC5330	AC805P AC810P AC700G AC900G AC820P AC2000 AC8025P AC830P	CA5505 CA510 CA515 VP5115 CA5515 CA525 VP5125 CA5525 CR9025 CA5535 CA530	IC8150 IC8250 IC8350	GC4305 GC4205 GC4315 GC4215 GC4325 GC4225 GC4335 GC4235	TP0500 TP0501 TP1500 TP1501 TGP25 TP2500 TP2501 TGP35 TP3501 TP3500 TGP45	KCP05 KCP05B KCP10 KCP10B KCP25 KCP25B KCP30 KCP30B KCP40 KCP40B	T9105 T9115 T9125 T9135	UE6105 UE6110 MY5015 MC6025 UE6020 MC6035 UE6035 UH6400	HG8010 HG8025 GM8035	VP5515 VP5525 VP5535	WPP10S WKP13S WPP20S WKP23S WPP30S WKP33S	TT8105 TT8110 LC215P TT8115 TT8120 LC225P TT8125 TT5100 TT8135 TT7100	CP5	JC110V JC215V JC325V JC450
	M	NC9115★ NC9125★ NC9135★	AC610M AC630M AC6030M	CA6515 CA6525	IC6015 IC6025	S05F GC2015 GC2220 GC2025	TM2000 TM4000	KCM15 KCM15M KCM25 KCM25B KCM35 KCM35B	T6120 T6130	MC7015 MC7025 US7020 US735	GM25 GX30	VP8515 VP8525	WAM10 WMP20S WAM20 WAM30	TT9215 TT9225 TT9235		
	K	NC6310★ NC6315	AC405K AC415K AC420K	CA4505 CA4010 CA4515 CA4115 CA4120	IC5005 IC5015	GC3205 GC3210 GC3215 GC3225	TK1001 TK2001 TGK1500	KCK05 KCK05B KCK15 KCK15B KCK20 KCK20B	T5105 T5115 T5125	MC5005 UC5105 MC5015 UC5115	HG3505 HG3515	VP1505 VP1510 VP1515	WKK10S WKK20S WAK30	TT7005 TT7505 TT7310 TT7015 TT6300	CP2 CP5	JC105V JC110V JC215V

PVD coated

ISO		KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Turning	P	PC8105★ PC8110 PC5300 PC8115★		PR1005 PR915 PR1115 PR930 PR1025 PR630 PR660	IC507 IC808 IC830 IC908 IC3028 IC330	GC1025 GC4125	CP200 CP250 CP500	KU10T KU25T	AH710 GH730 AH330 AH740 AH120 GH330	VP15TF VP20MF	IP2000 IP3000	VC907 VC927 VC905	WTA43 WTA41	TT5030		JC5003 JC5015
	M	PC8105★ PC8110 PC8115★ PC5300★ PC9030 PC5400★	AC510U EH510Z AC520U EH520Z AC530U	PR915 PR930 PR1125 PR630 PR660	IC808 IC907 IC3028 IC830 IC330	GC1005 GC1105 GC1020 GC1025 GC4125 GC2035	CP200 CP250 CP500	KC5010 KC5510 KC5025 KC5525	AH330 GH330 AH120 GH730 AH140 AH630 AH645	MP9005 VP10RT VP15TF VP20MF MP7035	IP50S IP100S	VC929 VC927 VC902 VC901 VC905	WSM10S WSM20S WSM30S WSM40S	TT5030 TT8020	ZM3 QM3 VM1 TAS	JC5003 JC5015
	K	PC5300	EH510Z EH520Z		IC5100 IC810 IC220 IC908 IC228		CP200 CP250 CP500		AH110 GH110 AH120		CY110H	VC929 VC903 VC927 VC902 VC901 VC907		TT5030		
	S	PC8105 PC8110 PC8115★ PC5300 PC5400★	AC510U AC520U	PR915 PR660 PR1325	IC808 IC907 IC3028 IC328	GC1105 GC1025 GC2035	TS2000 CP500 TS2500	KC5010 KC5025	AH110 AH120	VP05RT VP10RT VP15TF MP7035			WSM10 WSM20 WSM30	TT5030		

CERMET

ISO		KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Turning	P	CC1500★ CN1500★ CC2500★ CN2000 CN2500★	T110A T2000Z★ T1500A T3000Z★	PV30★ TN30 PV7020★ TN60 TN620 TN6020 TN90 PV90★	IC20N IC520N IC30N IC530N	CT5015 CT525 GC1525★	CM C15M TP1020 TP1030★	HT2 KT125 HT5 KT175 KT195M	NS520 GT530★ NS530 NS9530 GT9530★ NS540 NS730	NX2525 NX3035 UP35N★ AP25N★ NX335 MP3025★	CH350 CZ25★ CH530 CH550 CH570	VC83	WTA43★ WTA41★	PV3010★ CT3000	T3N T15 N20 C30 N40	LN10 CX50 CX75 CX90 CX99
	M															
	K	CN1500★ CN2500★	T110A							NX2525				CT3000	T15	LN10 CX75

★ : PVD Coating cermet ★ : New Grade

The comparison of grades for milling

CVD coated

ISO		KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Milling	P	NC5330 NCM325 NCM535★ NCM335 NCM545★	ACP100		IC5100 IC5400	GC4210 GC4220 GC4230	MP1500 MS2500 MP2500 MS2500 T350M MM4500	KCPM20 KCMP30 KC927M	T3130	FH7020 F7030		SM245	WKP25S WKP35S WKP35G	TT8515 TT7800		
	M	NC5330 NC5340★ NC5350★	ACP400			GC2040	MP2500 MM4500		T3130	F7030						
	K	NC5330 NCM535★ NCM545★	ACK200		IC5100	GC3330 GC3040	MK1500 MK2000 MS2500 T350M MK3000	KC907M KCK15 KC914M KCPK30 KC917M KC924M	T1115 T1015	MC5020			WAK15 WKK25 WKP25S WKP35S WKP35G	TT7515 TT6800		

PVD coated

ISO		KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Milling	P	PC2005★ PC2010★ PC2015★ PC2505★ PC2510★ PC3600 PC3700★ PC210F PC5300 PC5400★	ACZ310 ACP200 ACZ330 ACP300 ACZ350	PR730 PR830 PR630 PR660	IC903 IC908 IC950 IC1008 IC928	P20A GC1010 GC1025 GC1030 GC1030	MP3000 F25M F30M F40M T60M	KC522M KUC20M KC525M KUC30M KC935M KC7140 KC720	GH330 AH120 AH3135	AP20M GP20M MP6120 VP15TF UP20M MP6130 VP30RT	ATH80D PCA08M ACS05E PCA12M PC20M JX1005 TB6005 JX1020 CY9020 TB6045 CY250 PTH30E JP4160 JM4160 PTH40H	VC935	WKP25 WKP35 WKP45	TT2510 TT7070 TT7080 TT7030 TT8020	QM3 ZM3	DH102 JC5003 JC5015 JC5030 JC5040
	M	PC210F PC5300 PC9530 PC5400★ PC9540★	ACM100 ACP200 ACM300 ACP300 ACZ350	PR730 PR1025 PR630 PR660 PR1535 PR660	IC903 IC900 IC250 IC928 IC328	GC1125 GC1025 GC2030 GC1030	F25M F30M F40M	KC5510 KC7020 KC522M KC725M KC735M KC7030 KC722	AH120 AH140 AH3135	MP7130 MP7140	JX1020 CY9020 JX1015 TB6020 CY250 JX1045 TB6045 JX1060 TB6060	VC928 VC902 VC901	WQM35 WSM35S WSP45 WSM45S	TT9030 TT9080 TT8020	QM3 ZM3	JC5003 JC5015 JC5030 JC5040
	K	PC6510 PC5300		PR510 PR905	DT7150 IC900 IC910 IC950 IC350		MK2050	KC510M KC915M KC520M	AH120	VP10MF VP15TF VP20RT		VC903 VC928 VC902 VC901		TT6290 TT6030 TT6060		JC5003 JC5015
	S	PC5300 PC5400★ PC9540★	AC520U	PR620 PR660 PR1535	IC328 IC408	GC1025 GC1040 S40T	F40M MS2050	KC510M KCU30M		VP15TF VP30RT MP9130	ACS05E		WSM35S WSM45S	TT9030 TT8020 TT8080		

CERMET

ISO		KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Milling	P	CN2000 CN30	T250A	TN100M TC60M	IC30N			KT195M	NS540 NS740	NX2525 NX4545	CH550 CH570			CT3000 CT7000	C50	
	M		T250A			CT530										
	K									NX2525						

★ : PVD Coating cermet ★ : New Grade

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