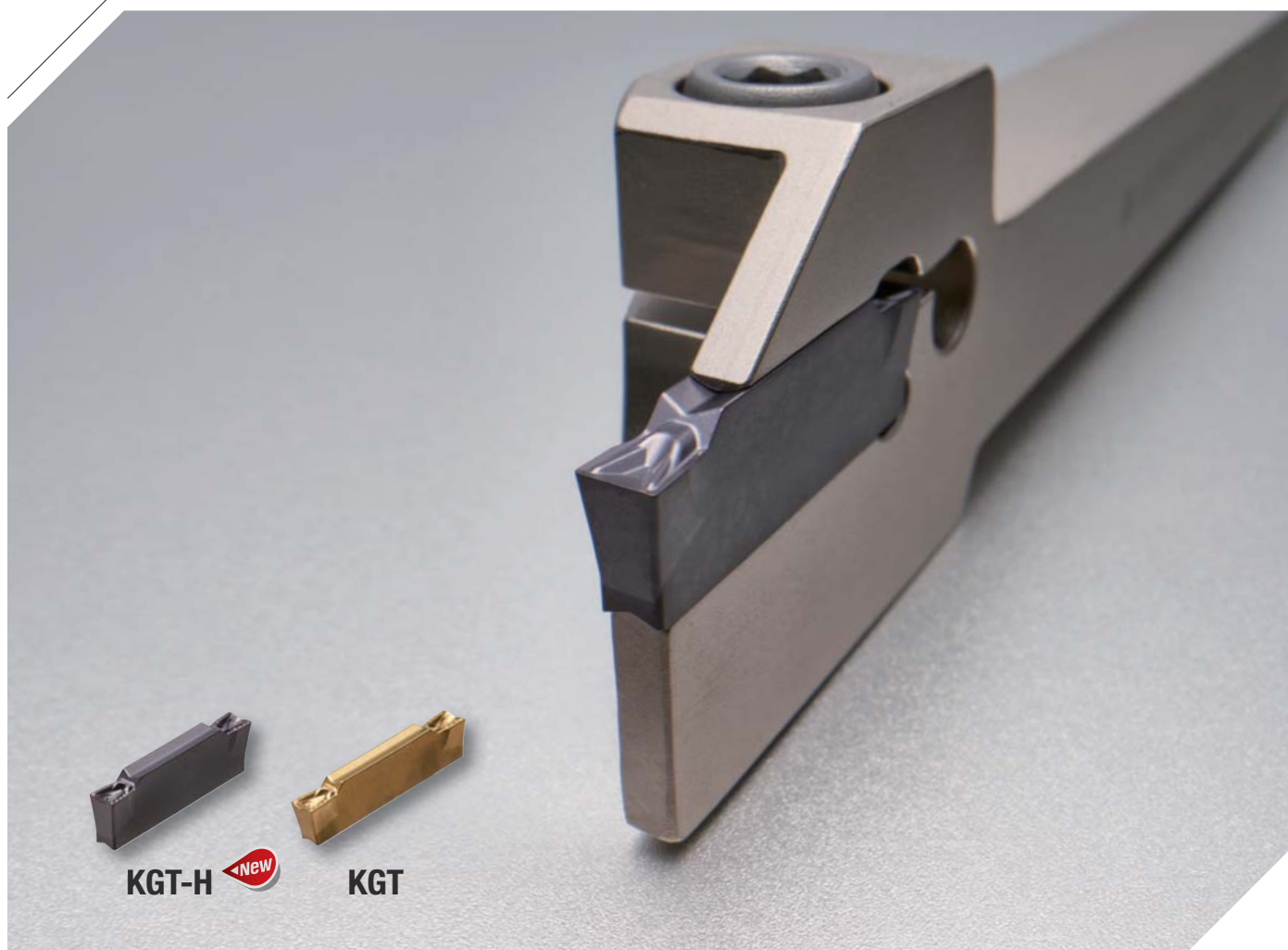


KGT

Multi-functional Grooving and Parting tool for high precision and high quality cutting

- New high-stiffness KGT-H line-up
- Chip breaker with excellent chip control and machinability



Multi-functional Grooving and Parting tool for high precision and high quality cutting

KGT

Grooving process is used in various machining and cutting applications, and recently, the industries require tools ensuring stable performance even in high-speed, high-precision machining to enhance productivity.

In addition, slim and long Grooving and cutting tools are vulnerable to wear, chipping, and breakage due to vibrations generated during high-speed, high-precision machining.

KGT Inserts uses a reinforced edge design and high quality edge treatment, protect the cutting edge while sustaining consistent performance across a wide range of machining condition. As a result, they achieve excellent surface finish with dimensional precision and provide superior performance in high-speed and high-precision machining.

KGT Holders provide high machining stability and long tool life by effectively suppressing vibrations generated during machining through a clamping system.

KGT-H : High Stiffness Korloy Grooving Tool features a high-stiffness design that suppresses tool damage occurring during high-speed, high-feed continuous machining, providing exceptional machining stability and performance.

The KGT offers a wide range of inserts and holders suitable for Grooving, Parting, Turning, Profiling, and relief machining and provides customers with the optimal machining solutions they need.

» Good chip control

- Various chip breakers for excellent chip evacuation

» Stable clamping system

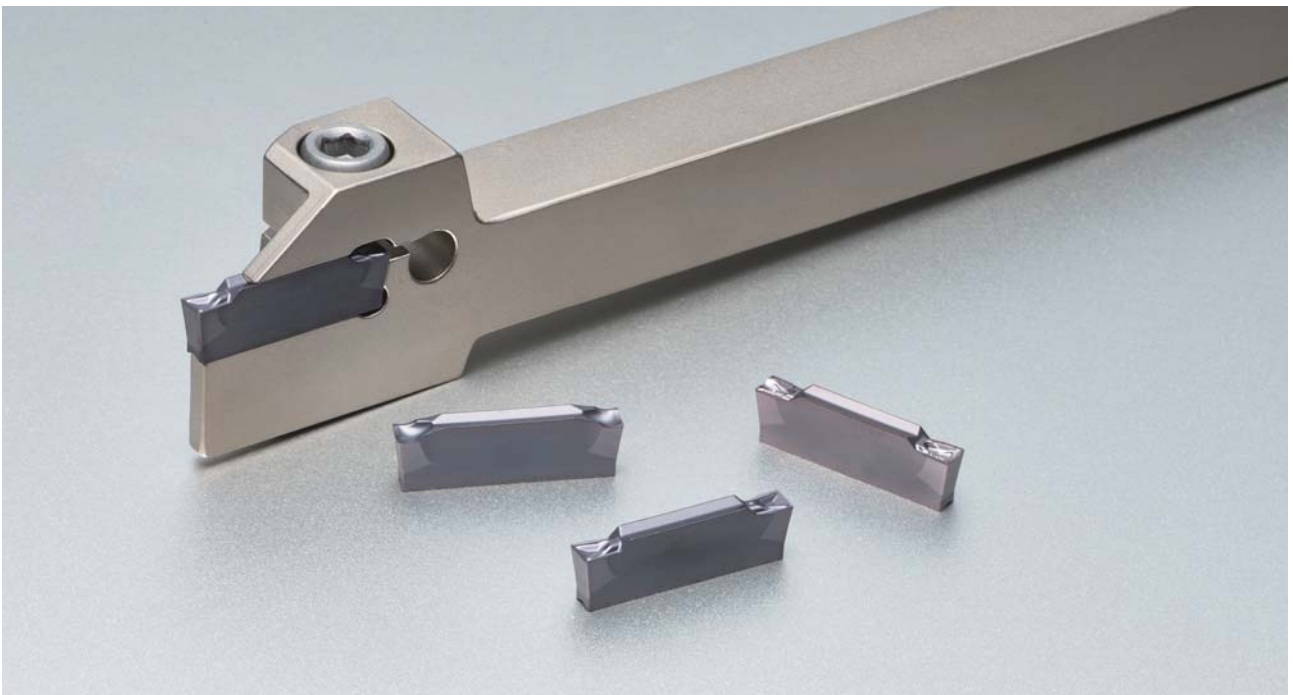
- Minimized chattering in cutting through clamp clamping

» High cutting performance

- New high-stiffness KGT-H line-up for excellent machining stability
- Excellent surface finish and high dimensional accuracy

» Optimal machining solutions

- Providing the optimal cutting solution in various cutting conditions



» Code system

» Insert

KG	M	N	300	(H)	-	04	-	T
KORLOY Grooving	Tolerance M: Pressed class G: Ground class	Hand N: Neutral R: Right L: Left I: Internal	Width of insert cutting edge 300: 3 mm	KGT-H Insert		Nose R 04: 0.4 mm		Chip breaker Flat: L, TL, T, R, B, A Round: C, CM, A Lead angle: LP, RP

» Insert (Round)

KR	M	N	300	(H)	-	C
KORLOY Grooving Round	Tolerance M: Pressed class G: Ground class	Hand N: Neutral	Width of insert cutting edge 300: 3 mm	KGT-H Insert		Chip breaker Round: C, CM, A

» Holder (External)

KG	E	H	R	25	25	-	3	(H)	-	T20
KORLOY Grooving	Use E: External F: Facing	Holder type H: Horizontal V: Vertical U: Under cut	Hand R: Right L: Left	Shank height 25: 25 mm	Shank width 25: 25 mm		Width of insert cutting edge 3: 3 mm	KGT-H Insert		Max. depth of cut T20: 20 mm

» Holder (Automatic lathe)

KG	E	H	R	16	16	-	3	(H)	-	D25B
KORLOY Grooving	Use E: External	Holder type H: Horizontal	Hand R: Right L: Left	Shank height 16: 16 mm	Shank width 16: 16 mm		Width of insert cutting edge 3: 3 mm	KGT-H Insert		Max. cutting diameter of the workpiece D25B: 25 mm

» Holder (Internal)

KG	I	V	R	25	20	-	3
KORLOY Grooving	Use I: Internal	Holder type V: Vertical U: Under cut	Hand R: Right L: Left	Min. cutting diameter 25: 25 mm	Shank diameter 20: 20 mm		Width of insert cutting edge 3: 3 mm

» Code system

» Holder (Facing)

KG	F	H	R	3	25	-	44	/	70	-	T15
KORLOY Grooving	Use F: Facing	Holder type H: Horizontal V: Vertical	Hand R: Right L: Left	Width of insert cutting edge 3: 3mm	Shank height, Shank width 25: 25mm		Min. cutting diameter 44: 44mm		Max. cutting diameter 70: 70mm		Max. depth of cut T15: 15mm

» Blade

KGTB	30	32	S
KORLOY Grooving Tool Blade	Width of insert cutting edge 30: 3mm	Blade height 32: 32mm	Single blade

» Cartridge (Holder)

MC	H	R	25	25
MGT Cartridge system	Holder type H: Horizontal V: Vertical	Hand R: Right L: Left	Shank height 25: 25mm	Shank diameter 25: 25mm

» Cartridge (External)

KC	E	R	3	(H)	-	T16
MGT Cartridge system	Use E: External	Hand R: Right L: Left	Width of insert cutting edge 3: 3mm	KGT-H Insert		Max. depth of cut T16: 16mm

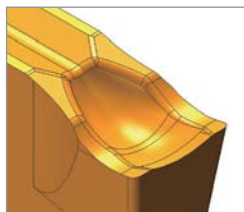
» Cartridge (Facing)

KC	F	R	3	-	44	/	70	-	T16
KGT Cartridge system	Use F: Facing	Hand R: Right L: Left	Width of insert cutting edge 3: 3mm		Min. cutting diameter 44: 44mm		Max. cutting diameter 70: 70mm		Max. depth of cut T16: 16mm

» Features of Chip breaker

◎: 1st recommendation ○: 2nd recommendation

L : Light grooving

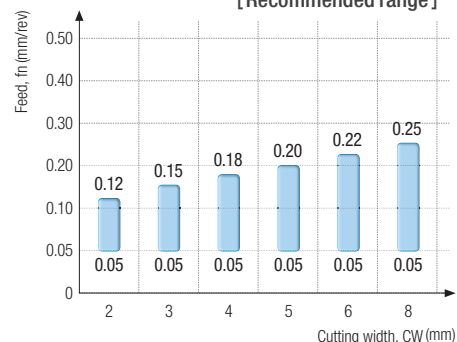


- For Grooving and Parting
- Concave cutting edge
- Concave rake surface
- Low hardness workpiece
- Small diameter part cutting

Recommended cutting

External					Internal				Facing		Special
Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning	
◎	○				○				○		

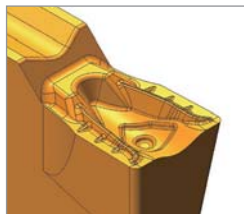
[Recommended range]



Recommended workpiece

P	M	K	N	S
◎	○			

TL : Turning and grooving in Low feed

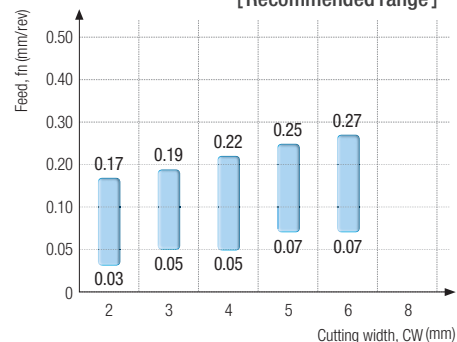


- For Grooving, Cutting and Parting
- Concave cutting edge
- Concave bump
- For HRSA cutting
- Good chip control

Recommended cutting

External					Internal				Facing		Special
Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning	
◎	○	○			○	○			◎	○	

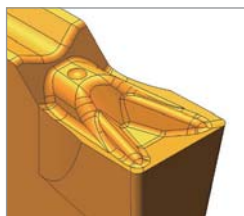
[Recommended range]



Recommended workpiece

P	M	K	N	S
○	○			◎

T : Turning and grooving

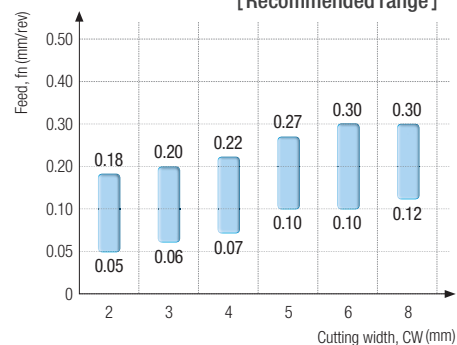


- For Grooving, Cutting and Parting
- Straight cutting edge
- Concave bump
- For various workpiece cutting
- Good chip control

Recommended cutting

External					Internal				Facing		Special
Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning	
◎	○	◎			○	○			◎	◎	

[Recommended range]



Recommended workpiece

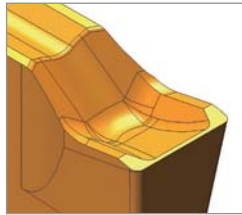
P	M	K	N	S
◎	○	○		

※ It is recommended to select and use an appropriate chip breaker considering the recommended machining, recommended area, and recommended workpiece material information.

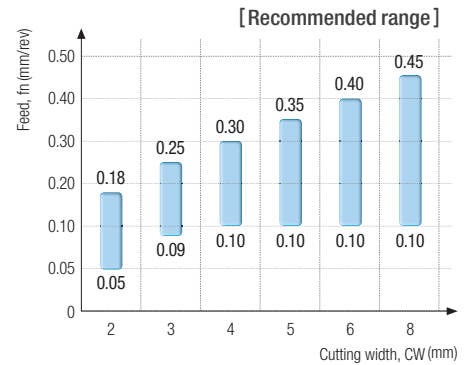
» Features of Chip breaker

◎: 1st recommendation ○: 2nd recommendation

R : Rough grooving



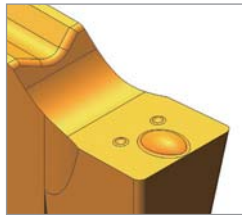
- For Grooving and Parting
- Straight cutting edge
- Hard cutting edge
- High hardness workpiece
- For high feed cutting



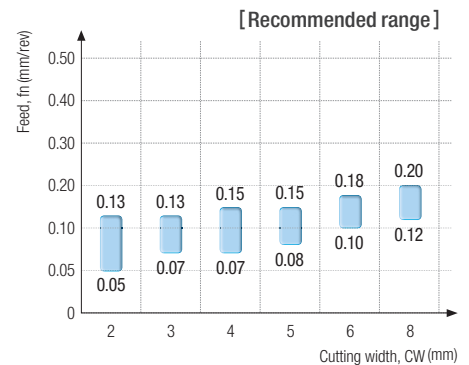
Recommended cutting											
External					Internal				Facing		Special
◎	○				○				○		

Recommended workpiece				
P	M	K	N	S
◎	○	◎		

B : Blank for precision grooving



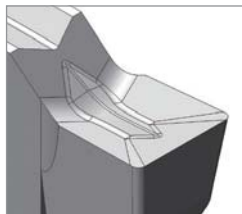
- For Grooving
- Straight cutting edge
- Special shape
- Good surface finish of workpiece



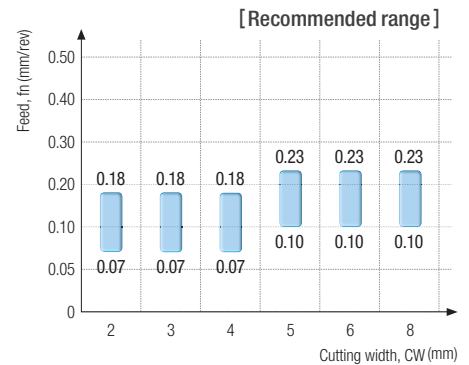
Recommended cutting											
External					Internal				Facing		Special
◎											◎

Recommended workpiece				
P	M	K	N	S
◎		○		

A : Aluminum grooving



- For Grooving, Parting and Turning
- Straight cutting edge
- Aluminum workpiece
- Good surface finish of workpiece



Recommended cutting											
External					Internal				Facing		Special
◎	○	○			○						

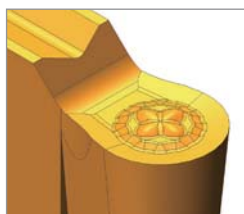
Recommended workpiece				
P	M	K	N	S
			◎	

※ It is recommended to select and use an appropriate chip breaker considering the recommended machining, recommended area, and recommended workpiece material information.

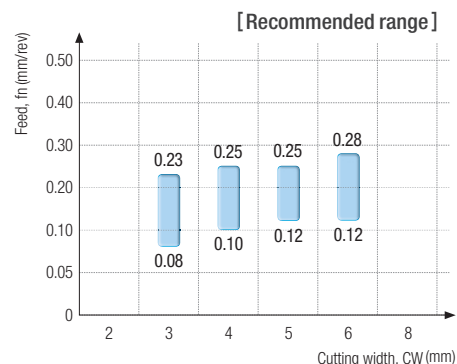
» Features of Chip breaker

◎: 1st recommendation ○: 2nd recommendation

CM : Copying and relief in Medium feed



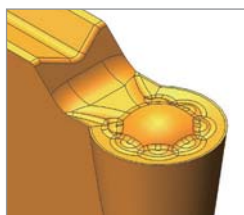
- For Copying and Relief
- Round cutting edge
- Bump on rake surface
- For HRSA cutting
- Good surface finish of workpiece



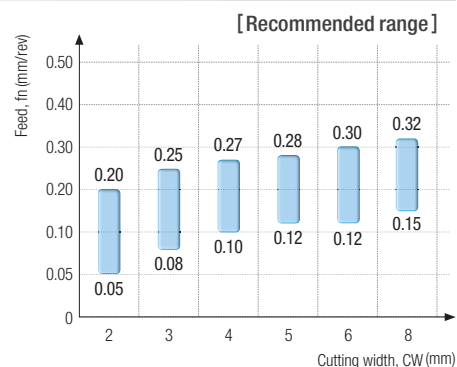
Recommended cutting										
External					Internal				Facing	
Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning
			◎	◎			○	○		

Recommended workpiece				
P	M	K	N	S
○	○			◎

C : Copying and relief



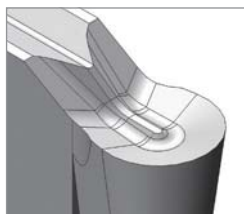
- For Copying and Relief
- Round cutting edge
- Bump on rake surface
- Good surface finish of workpiece



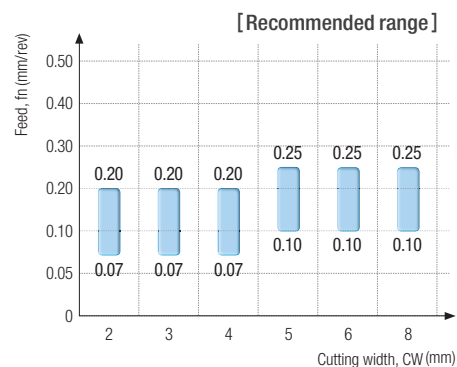
Recommended cutting										
External					Internal				Facing	
Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning
			◎	◎			○	○		

Recommended workpiece				
P	M	K	N	S
◎	○	○		

A : Aluminum grooving



- For Copying and Relief
- Round cutting edge
- Aluminum workpiece
- Good surface finish of workpiece



Recommended cutting										
External					Internal				Facing	
Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning
			◎	◎			○	○		

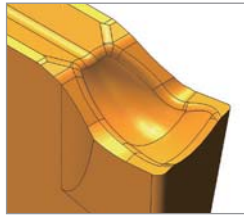
Recommended workpiece				
P	M	K	N	S
			◎	

※ It is recommended to select and use an appropriate chip breaker considering the recommended machining, recommended area, and recommended workpiece material information.

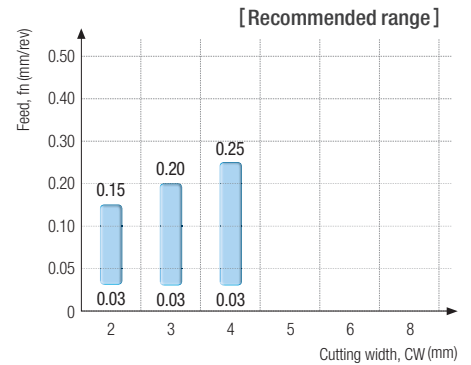
» Features of Chip breaker

◎: 1st recommendation ○: 2nd recommendation

LP : Light Parting



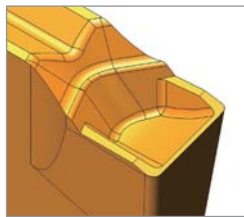
- For Parting
- Lead angle cutting edge
- Concave rake surface
- Low hardness workpiece
- Small diameter part cutting



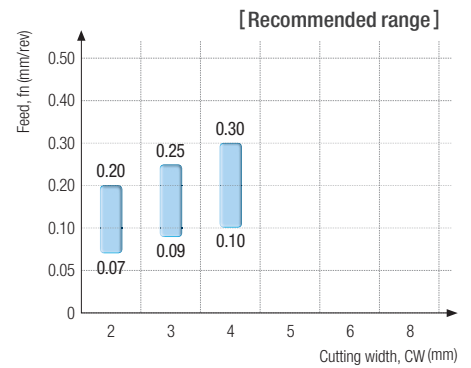
Recommended cutting										
External					Internal				Facing	
	◎									

Recommended workpiece				
P	M	K	N	S
◎	○			

RP : Rough Parting



- For Parting
- Lead angle cutting edge
- Hard cutting edge
- High hardness workpiece
- Good for high feed cutting



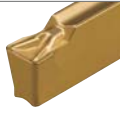
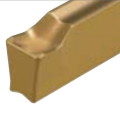
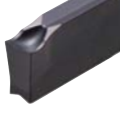
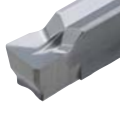
Recommended cutting										
External					Internal				Facing	
	◎									

Recommended workpiece				
P	M	K	N	S
◎		○		

※ It is recommended to select and use an appropriate chip breaker considering the recommended machining, recommended area, and recommended workpiece material information.

» Recommended insert for use

 ◎: 1st recommendation ○: 2nd recommendation

Type	Chip breaker	Cross section type	Recommended workpiece					Recommended cutting											
			P	M	K	N	S	External					Internal				Facing		Special
								Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning	
KGMN	L		◎	○				◎	○				○				○		
	TL		○	○			◎	◎	○	○			○	○			◎	○	
	T		◎	○	○			◎	○	◎			○	○			◎	◎	
	R		◎	○	◎			◎	○				○				○		
 KGMN(H)	L		◎	○				◎	○										
	TL		○	○			◎	◎	○	○									
	T		◎	○	○			◎	○	◎									
	R		◎	○	◎			◎	○										
KGGN	B		◎		○			◎											◎
	A					◎		◎	○	○			○						
	R		◎	○	◎			◎	○				○				○		
KGMI	T		◎	○	○								◎	◎					
KGMR/L	LP		◎	○					◎										
	RP		◎		○				◎										

※ It is recommended to select and use an appropriate chip breaker considering the recommended machining, recommended area, and recommended workpiece material information.

» Recommended insert for use

◎: 1st recommendation ○: 2nd recommendation

Type	Chip breaker	Cross section type	Recommended workpiece					Recommended cutting											Special
			P	M	K	N	S	External					Internal				Facing		
								Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning	
KRMN	C 		◎	○	○						◎	◎			○	○			
KRGN	A 					◎					◎	◎			○	○			
	CM 		○	○			◎				◎	◎			○	○			
KRMI	C 		◎	○	○										◎	◎			

※ It is recommended to select and use an appropriate chip breaker considering the recommended machining, recommended area, and recommended workpiece material information.

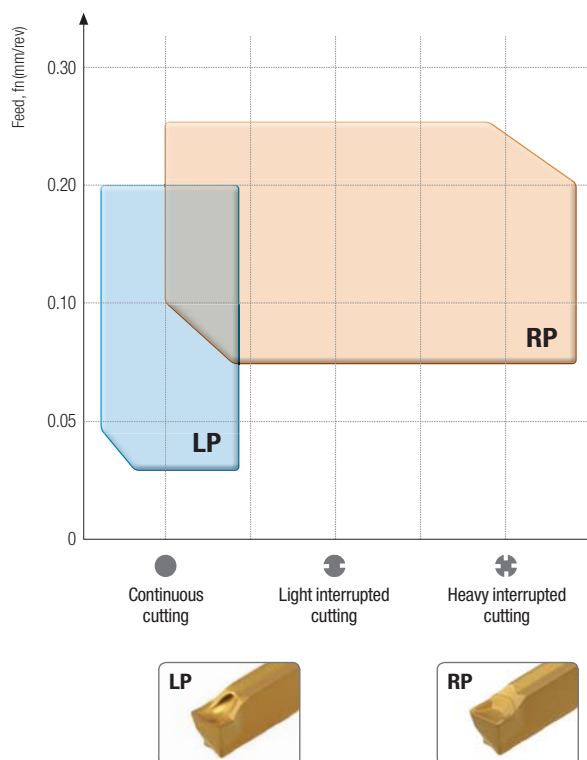
» Precautions for use

01. KGT is an exclusive product of KORLOY and is not compatible with inserts and holders from other manufacturers.
02. To minimize or suppress vibration, it is recommended to use holders with a small maximum depth of cut (CDX) and a large shank width and height.
03. Setting the insert and the workpiece surface at a right angle during machining can reduce vibration.
04. To prevent insert breakage and wear on the relief surface during machining, it is advisable to set the insert edge height within ± 0.1 mm relative to the workpiece center.
05. Considering recommended machining, recommended areas, and recommended workpiece materials, it is recommended to select and use an appropriate chip breaker.
06. Inserts with primary cutting edge angles (PSIRR, PSIRL) should be used for external turning to reduce PIP and burr formation, and appropriate lead angles should be selected according to the workpiece type:
 - Lead angle 4°: Pipe
 - Lead angle 6°: Pipe and round bar
 - Lead angle 8°: Round bar
 - Lead angle 15°: Small-diameter round bar
 - Related products: LP, RP, see page 19, 20.
07. KGT-H is not compatible with KGT inserts and holders because its thickness differs from the KGT insert.
 - Related product: KGEHR/L-H-D00B, Page 21
08. When using external turning inserts for internal turning, please check the applicable inserts. Related products: KGIUR, KGIVR, pages 28 and 29.
09. To reduce vibration during internal turning, it is recommended to set the boring bar overhang to within three times the shank diameter (DCON-MS). Related products: KGIUR, KGIVR, pages 28 and 29.
10. For face grooving, to avoid contact between the insert, holder, and workpiece, please be sure to use an appropriate holder after confirming the minimum axial groove inner diameter (DAXIN) and the maximum axial groove outer diameter (DAXX). Related products: KGFHR, KGFVR, pages 30 and 31.

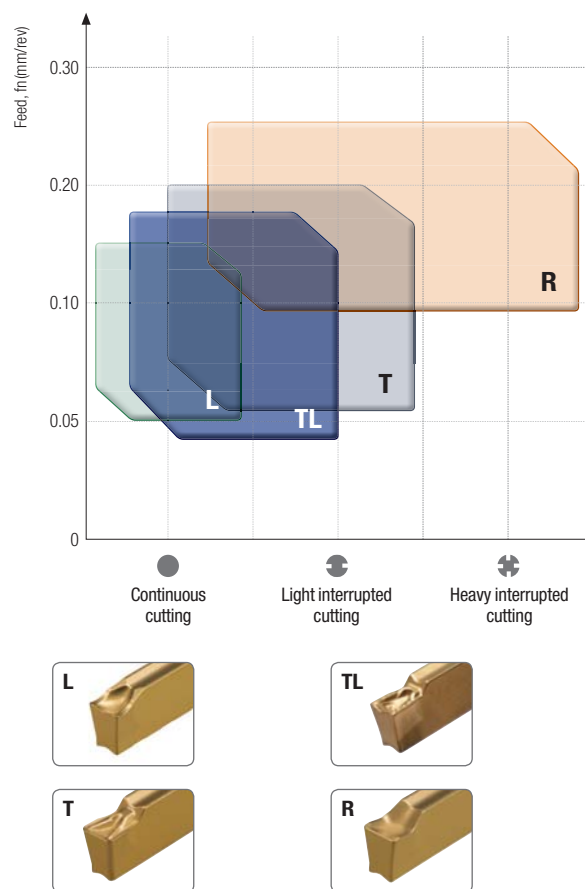
» Cutting range

Cutting width(mm) = Based on 3

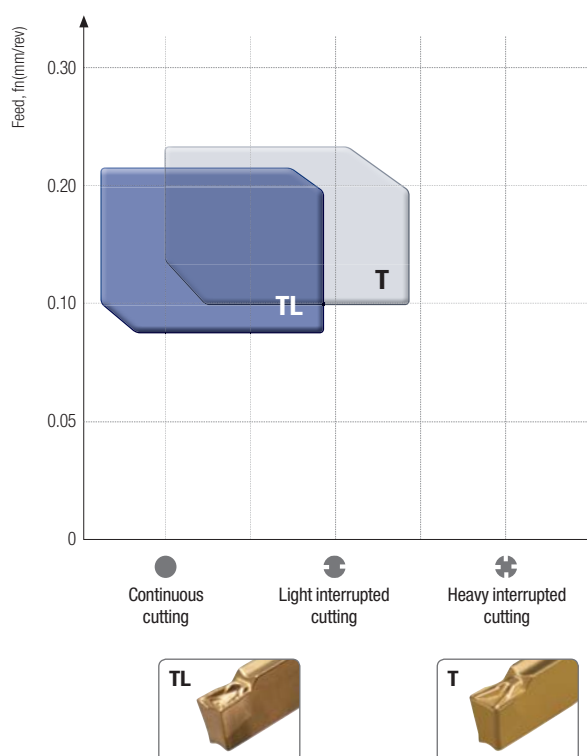
Parting



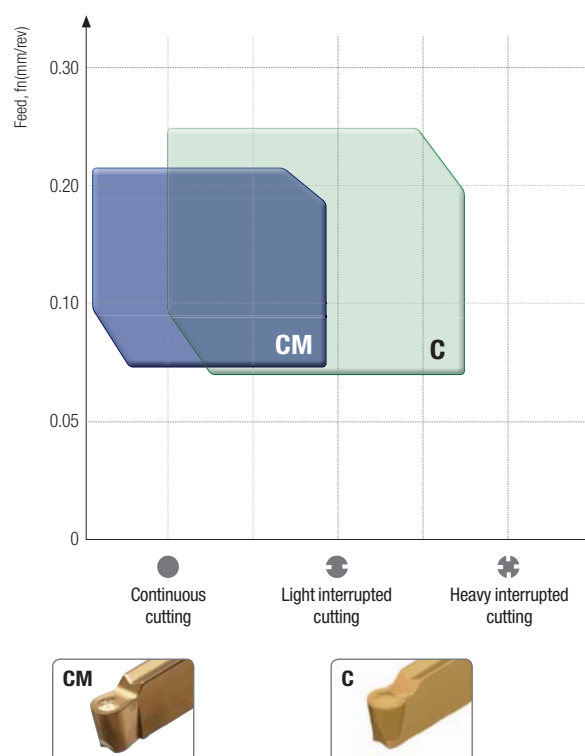
Grooving



Turning

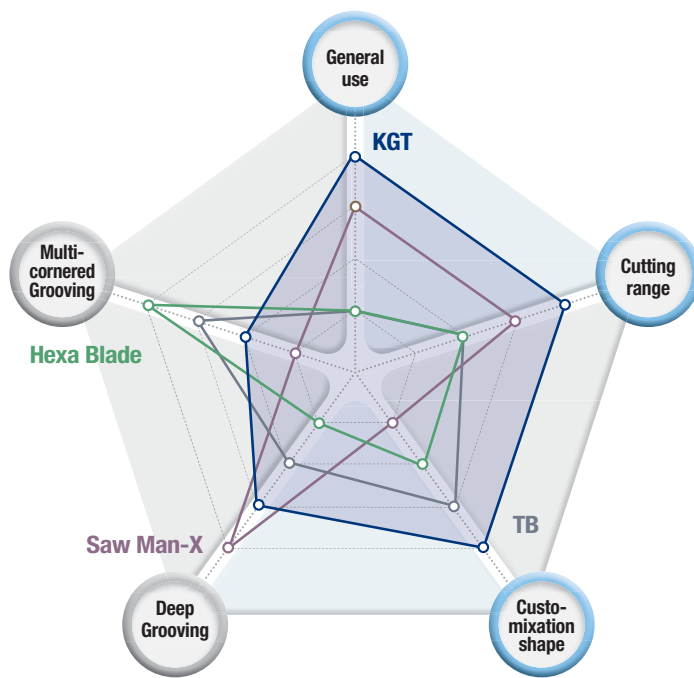


Profile



※ It is recommended to select and use an appropriate chip breaker considering the recommended machining, recommended area, and recommended workpiece material information.

» Tool selection guide



< KGT

- 2 cornered insert
- Various applications
- For general use



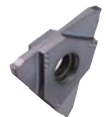
< Saw Man-X

- 1 cornered insert
- Optimal for interrupted and high feed Parting
- Deep Grooving



< TB

- Precision typed and 3 cornered insert
- Optimal for automatic cutting
- Precision Grooving



< Hexa Blade

- Precision typed and 6 cornered insert
- High cost efficiency
- Precision Grooving and multi-cornered Grooving



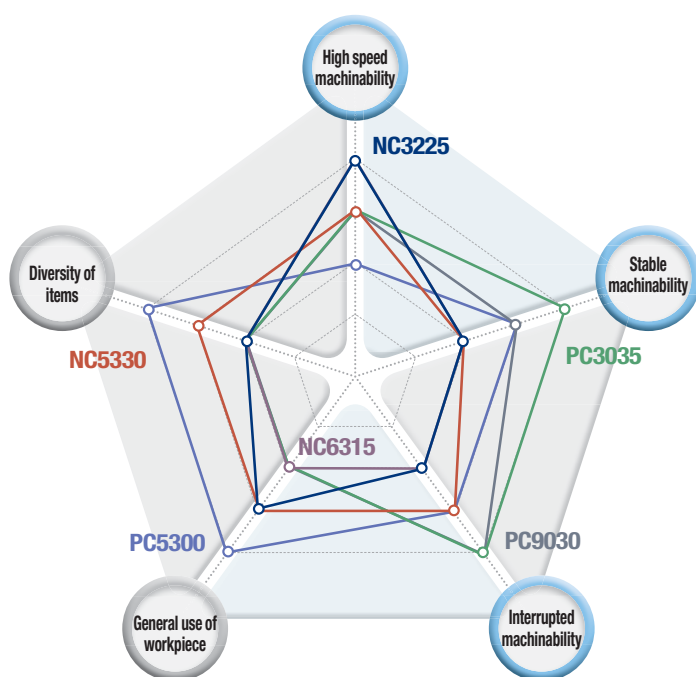
Tool	General use	Cutting range	Customisation shape	Deep Grooving	Multi-cornered Grooving
KGT	★★★★★	★★★★★	★★★★★	★★★	★★
Saw Man-X	★★★	★★★	★	★★★★★	★
TB	★	★★	★★★	★★	★★★
Hexa Blade	★	★★	★★	★	★★★★★

» Cutting width and cutting depth by tools

◎: 1st recommendation ○: 2nd recommendation

Tool		Cutting width (mm)				No. of edge	Machining				Features
		2	4	6	8		External	Internal	Facing	Parting	
		5	10	20	60						
Cutting depth maximum (mm)											
KGT		1.5			8	2					• For various kinds of cutting • For general cutting range
28											
Saw Man-X		2			6	1					• Various lead angles • Minimizing burr
TB		1.25			6	3					• Precision type • Optimal for automated machining
Hexa Blade		0.5			4	6					• Precision type • High cost efficient cutting

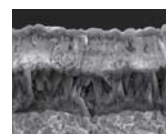
» Grade selection guide



< NC3225

- CVD coating, general Steel and forged Steel
- High speed wear resistance

P M K N S



< NC6315

- CVD coating, Gray cast iron and Ductile cast iron general machining
- Rake surface wear, excessive flank wear, burr and chipping suppression

P M K N S



< NC5330

- CVD coating, universal grade
- Good high speed stability

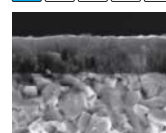
P M K N S



< PC3035

- PVD coating, exclusive Steel Cutting and Grooving
- Good wear resistance and cutting stability

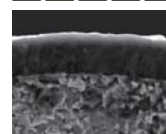
P M K N S



< PC9030

- PVD coating, medium to roughing interrupted cutting for Stainless steel
- Good chipping resistance and welding resistance

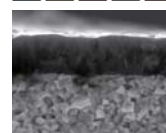
P M K N S



< PC5300

- PVD coating, universal grade
- Good interrupted- efficiency machining and wear resistance

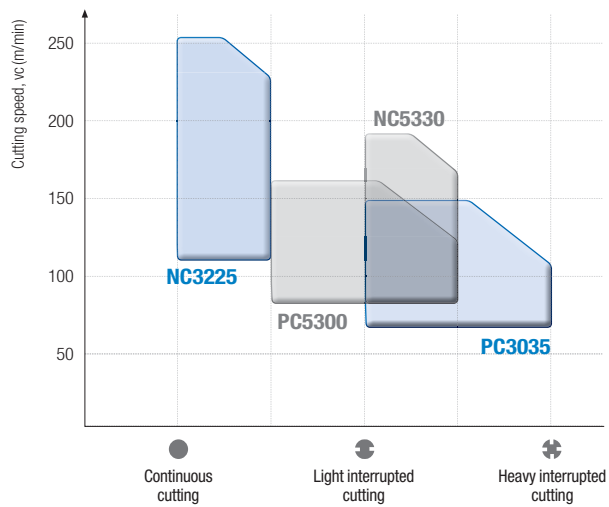
P M K N S



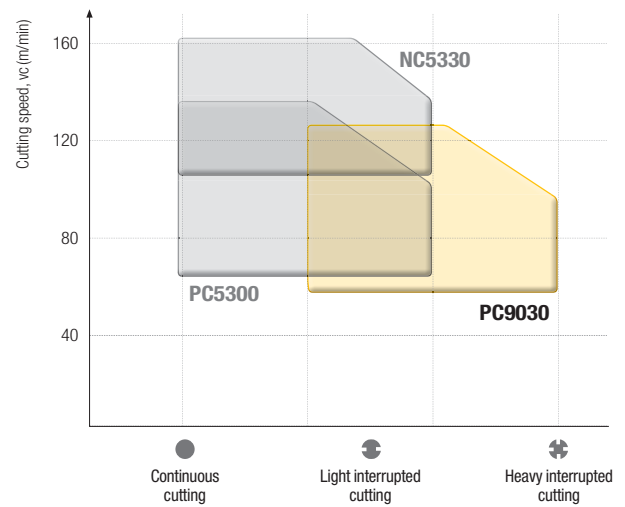
Type	High speed machinability	Stable machinability	Interrupted machinability	General use of workpiece	Diversity of items
NC3225	★★★★★	★★	★★	★★★	★★
NC6315	★★★★★	★★	★★	★★	★★
NC5330	★★★	★★	★★★★	★★★★	★★★★
PC3035	★★★	★★★★★	★★★★★	★★	★★
PC9030	★★★	★★★	★★★★★	★★	★★
PC5300	★★	★★★	★★★	★★★★★	★★★★★

» Grade application range

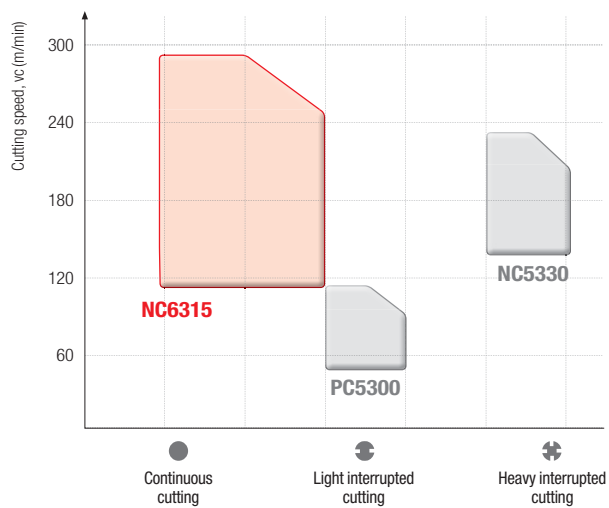
P Steel



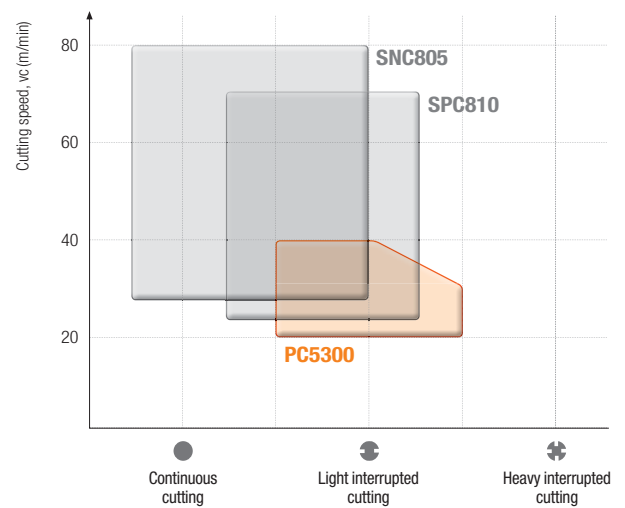
M Stainless steel



K Cast iron



S HRSA



» Recommended cutting conditions

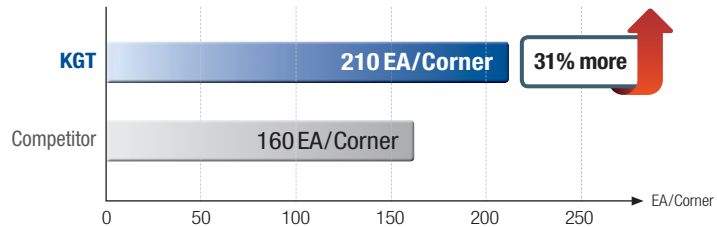
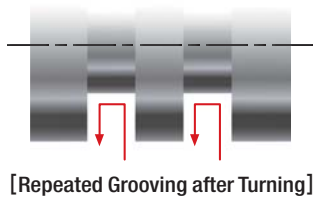
Cutting width(mm) = Based on 3

Workpiece						Grade						Chip breaker									
						CVD			PVD			Grooving						Turning			
ISO	Workpiece material		ISO	AISI	Brinell hardness (HB)	NC3225	NC5330	NC6315	PC3035	PC5300	PC9030	L	TL	T	R	C	CM	TL	T	C	CM
						vc (m/min)						fn (mm/rev)						fn (mm/rev)			
P	Carbon steel	C = 0.10 ~0.25%	C25	1025	125	210	160	-	100	110	-	0.15	0.12	0.15	0.25	0.20	0.16	0.19	0.20	0.25	0.23
						230	170	-	140	140	-	0.10	0.10	0.11	0.17	0.15	0.13	0.17	0.16	0.20	0.18
						240	190	-	180	170	-	0.05	0.08	0.07	0.09	0.10	0.10	0.15	0.12	0.15	0.13
		C = 0.25 ~0.55%	C35	1035	160	200	140	-	95	100	-	0.15	0.12	0.15	0.25	0.20	0.16	0.19	0.20	0.25	0.23
						210	160	-	130	130	-	0.10	0.10	0.11	0.17	0.15	0.13	0.17	0.16	0.20	0.18
						220	170	-	180	160	-	0.05	0.08	0.07	0.09	0.10	0.10	0.15	0.12	0.15	0.13
		C = 0.55 ~0.80%	C55	1055	229	180	130	-	90	90	-	0.15	0.12	0.15	0.25	0.20	0.16	0.19	0.2	0.25	0.23
						200	150	-	130	120	-	0.10	0.10	0.11	0.17	0.15	0.13	0.17	0.16	0.20	0.18
						210	160	-	170	150	-	0.05	0.08	0.07	0.09	0.10	0.10	0.15	0.12	0.15	0.13
	Low alloy steel ≤ 5%	Non-hardened	42CrMo4	4140	180	150	110	-	60	70	-	0.13	0.11	0.13	0.21	0.18	0.14	0.17	0.18	0.23	0.20
						160	120	-	100	100	-	0.09	0.09	0.10	0.15	0.13	0.11	0.15	0.14	0.18	0.15
						170	130	-	140	130	-	0.05	0.07	0.07	0.09	0.08	0.08	0.13	0.10	0.13	0.10
		Hardened and tempered	-	4145	350	85	60	-	40	50	-	0.13	0.11	0.13	0.21	0.18	0.14	0.17	0.18	0.23	0.20
						90	70	-	65	60	-	0.09	0.09	0.10	0.15	0.13	0.11	0.15	0.14	0.18	0.15
						100	80	-	90	70	-	0.05	0.07	0.07	0.09	0.08	0.08	0.13	0.10	0.13	0.10
	High alloy steel > 5%	Annealed	-	D2	200	110	80	-	50	55	-	0.13	0.11	0.13	0.21	0.18	0.14	0.17	0.18	0.23	0.20
						120	90	-	80	75	-	0.09	0.09	0.10	0.15	0.13	0.11	0.15	0.14	0.18	0.15
						130	100	-	120	95	-	0.05	0.07	0.07	0.09	0.08	0.08	0.13	0.10	0.13	0.10
		Hardened tool steel	X40CrMoV5-1	H13	352	90	65	-	40	40	-	0.13	0.11	0.13	0.21	0.18	0.14	0.17	0.18	0.23	0.20
						100	70	-	65	60	-	0.09	0.09	0.10	0.15	0.13	0.11	0.15	0.14	0.18	0.15
						110	80	-	90	80	-	0.05	0.07	0.07	0.09	0.08	0.08	0.13	0.10	0.13	0.10
M	Austenite series		X5CrNi18-9	304	160~180	-	85	-	-	60	50	0.13	0.11	0.13	0.21	0.18	0.14	0.17	0.18	0.23	0.20
						-	90	-	-	80	70	0.09	0.09	0.10	0.15	0.13	0.11	0.15	0.14	0.18	0.15
						-	100	-	-	100	90	0.05	0.07	0.07	0.09	0.08	0.08	0.13	0.10	0.13	0.10
			X5CrNiMo17-12-2	316	160~180	-	85	-	-	60	50	0.13	0.11	0.13	0.21	0.18	0.14	0.17	0.18	0.23	0.20
						-	90	-	-	80	70	0.09	0.09	0.10	0.15	0.13	0.11	0.15	0.14	0.18	0.15
						-	100	-	-	100	90	0.05	0.07	0.07	0.09	0.08	0.08	0.13	0.10	0.13	0.10
K	Gray cast iron	Low tensile strength	150	No25B	≤ 212	-	105	150	-	80	-	-	-	0.13	0.21	0.18	-	0.17	0.18	0.23	0.20
						-	110	160	-	100	-	-	-	0.10	0.15	0.13	-	0.15	0.14	0.18	0.15
						-	120	170	-	120	-	-	-	0.07	0.09	0.08	-	0.13	0.10	0.13	0.10
		High tensile strength	250 350	No35B No50B	≤ 248 ≤ 277	-	85	120	-	80	-	-	-	0.13	0.21	0.18	-	0.17	0.18	0.23	0.20
						-	90	130	-	100	-	-	-	0.10	0.15	0.13	-	0.15	0.14	0.18	0.15
						-	100	140	-	120	-	-	-	0.07	0.09	0.08	-	0.13	0.10	0.13	0.10
	Ductile cast iron	Ferritic	500-7	65-45-12	170~241	-	65	95	-	70	-	-	-	0.15	0.25	0.20	-	0.19	0.20	0.25	0.23
						-	70	100	-	85	-	-	-	0.11	0.17	0.15	-	0.17	0.16	0.20	0.18
						-	80	110	-	100	-	-	-	0.07	0.09	0.10	-	0.15	0.12	0.15	0.13
		Pearlitic	600-3	80-55-06	192~269	-	55	85	-	70	-	-	-	0.15	0.25	0.20	-	0.19	0.20	0.25	0.23
						-	60	90	-	85	-	-	-	0.11	0.17	0.15	-	0.17	0.16	0.20	0.18
						-	70	100	-	100	-	-	-	0.07	0.09	0.10	-	0.15	0.12	0.15	0.13
		martensitic	700-2	100-70-03	229~302	-	55	85	-	70	-	-	-	0.15	0.25	0.20	-	0.19	0.20	0.25	0.23
						-	60	90	-	85	-	-	-	0.11	0.17	0.15	-	0.17	0.16	0.20	0.18
						-	70	100	-	100	-	-	-	0.07	0.09	0.10	-	0.15	0.12	0.15	0.13
S	Inconel		-		200	-	-	-	-	30	-	-	0.09	0.10	-	0.12	0.10	0.15	0.13	0.16	0.14
						-	-	-	-	40	-	-	0.07	0.08	-	0.10	0.08	0.13	0.11	0.14	0.12
						-	-	-	-	50	-	-	0.05	0.06	-	0.08	0.06	0.11	0.09	0.12	0.10
			-		350	-	-	-	-	20	-	-	0.09	0.10	-	0.12	0.10	0.15	0.13	0.16	0.14
						-	-	-	-	30	-	-	0.07	0.08	-	0.10	0.08	0.13	0.11	0.14	0.12
						-	-	-	-	40	-	-	0.05	0.06	-	0.08	0.06	0.11	0.09	0.12	0.10
	Titanium alloy		-		3400	-	-	-	-	40	-	-	0.11	0.13	-	0.18	0.14	0.17	0.18	0.20	0.20
						-	-	-	-	50	-	-	0.09	0.10	-	0.13	0.11	0.15	0.14	0.18	0.15
						-	-	-	-	60	-	-	0.07	0.07	-	0.08	0.08	0.13	0.10	0.16	0.10
			-		950	-	-	-	-	40	-	-	0.11	0.13	-	0.18	0.14	0.17	0.18	0.20	0.20
						-	-	-	-	50	-	-	0.09	0.10	-	0.13	0.11	0.15	0.14	0.18	0.15
						-	-	-	-	60	-	-	0.07	0.07	-	0.08	0.08	0.13	0.10	0.16	0.10

» Performance evaluation

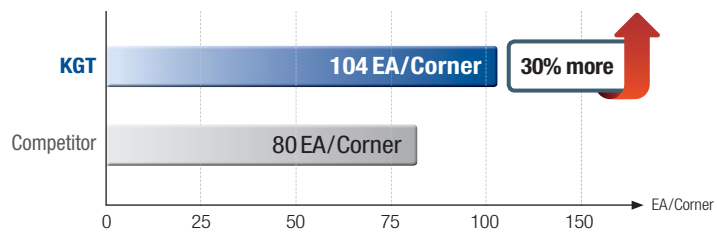
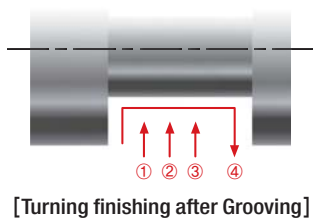
Multi-functional cutting

Workpiece	Carbon steel (C45)		
Cutting condition	vc (m/min) = 170, fn (mm/rev) = 0.15, a_p (mm) = 2.0, wet		
Tool	Insert KGMN300-04-T (PC5300)	Holder KGEHR2525-3-T13	



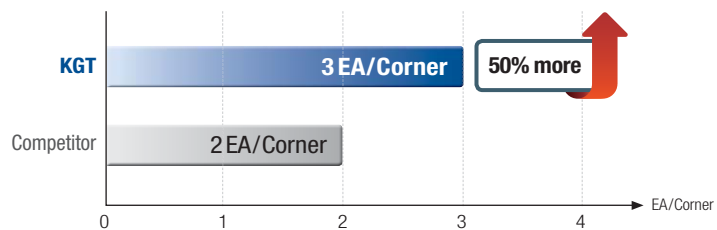
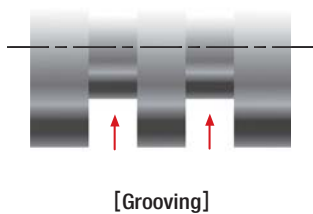
Shaft cutting

Workpiece	Alloy steel (42CrMo4)		
Cutting condition	vc (m/min) = 150, fn (mm/rev) = 0.15, a_p (mm) = 5.0, wet		
Tool	Insert KGMN300-04-T (PC5300)	Holder KGEHR2525-3-T12	



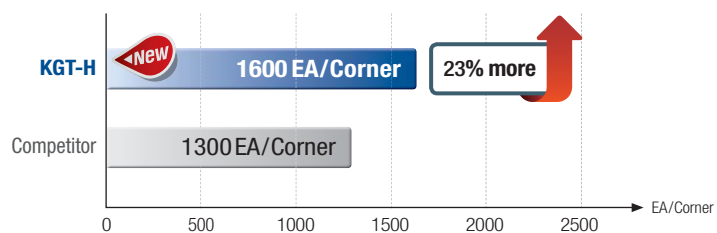
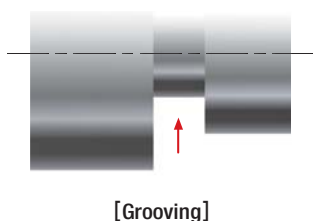
Turbine case cutting

Workpiece	HRSA (Inconel718)		
Cutting condition	vc (m/min) = 30, fn (mm/rev) = 0.04, a_p (mm) = 8.5, wet		
Tool	Insert KGMN500-08-TL (SPC810)	Holder KGEHR3232-5-T20	



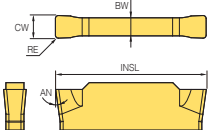
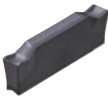
Shaft cutting

Workpiece	Low alloy steel (B1)		
Cutting condition	vc (m/min) = 120, fn (mm/rev) = 0.15, a_p (mm) = 0.1, wet		
Tool	Insert KGMN300H-02-R (PC5300)	Holder KGEHR2525-3H-T13	



» Insert (KGT-H)

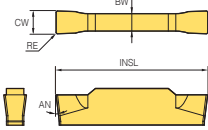
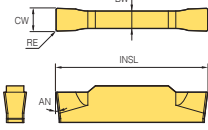
※ AN = 7°

Picture	Designation	Coated								Uncoated		Dimension (mm)						Geometry
		NC3225	NC5330	NC6315	PC3035	PC5300	PC9030	SNC805	SPC810	H01	H05	CW	RE	INSL	BW	PSIRR	PSIRL	
	KGMN 200H-02-L				●							2.00	0.20	20.0	1.70	-	-	
	300H-02-L				●							3.00	0.20	20.0	2.40	-	-	
	KGMN 200H-03-TL				●							2.00	0.30	20.0	1.70	-	-	
	300H-03-TL				●							3.00	0.30	20.0	2.40	-	-	
	KGMN 150H-015-T				●							1.50	0.15	20.0	1.20	-	-	
	200H-02-T				●							2.00	0.20	20.0	1.70	-	-	
	250H-02-T				●							2.50	0.20	20.0	2.00	-	-	
	300H-02-T				●							3.00	0.20	20.0	2.40	-	-	
	300H-04-T				●							3.00	0.40	20.0	2.40	-	-	
	KGMN 150H-015-R				●							1.50	0.15	20.0	1.20	-	-	
	200H-02-R				●							2.00	0.20	20.0	1.70	-	-	
	300H-02-R				●							3.00	0.20	20.0	2.40	-	-	

※ KGT-H is not compatible with KGT inserts and holders because its thickness differs from that of the KGT insert.

» Insert (KGT)

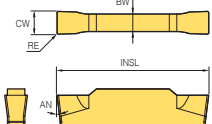
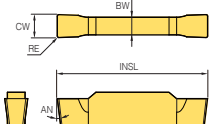
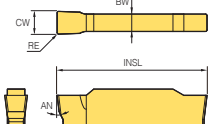
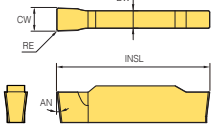
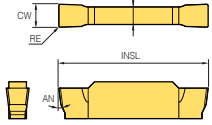
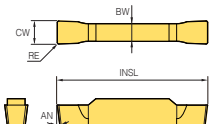
※ AN = 7°

Picture	Designation	Coated								Uncoated		Dimension (mm)						Geometry
		NC3225	NC5330	NC6315	PC3035	PC5300	PC9030	SNC805	SPC810	H01	H05	CW	RE	INSL	BW	PSIRR	PSIRL	
	KGMN 200-02-L	●	●		●	●	●					2.00	0.20	20.0	1.70	-	-	
	300-02-L	●	●		●	●	●					3.00	0.20	20.0	2.30	-	-	
	400-02-L	●	●		●	●	●					4.00	0.20	20.0	3.30	-	-	
	500-03-L	●	●		●	●						5.00	0.30	25.0	4.10	-	-	
	600-03-L				●							6.00	0.30	25.0	5.10	-	-	
	KGMN 200-02-TL											2.00	0.20	20.0	1.70	-	-	
	200-03-TL											2.00	0.30	20.0	1.70	-	-	
	300-02-TL				●			●	●			3.00	0.20	20.0	2.30	-	-	
	300-03-TL											3.00	0.30	20.0	2.30	-	-	
	300-04-TL					●						3.00	0.40	20.0	2.30	-	-	
	400-02-TL											4.00	0.20	20.0	3.30	-	-	
	400-04-TL				●			●	●			4.00	0.40	20.0	3.30	-	-	
	400-08-TL											4.00	0.80	20.0	3.30	-	-	
	500-04-TL				●			●	●			5.00	0.40	25.0	4.10	-	-	
	500-08-TL				●			●	●			5.00	0.80	25.0	4.10	-	-	
	600-04-TL											6.00	0.40	25.0	5.10	-	-	
	600-08-TL				●			●	●			6.00	0.80	25.0	5.10	-	-	
	800-08-TL											8.00	0.80	30.0	6.10	-	-	

● : Stock item

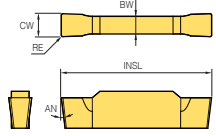
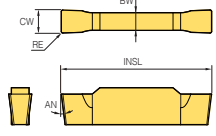
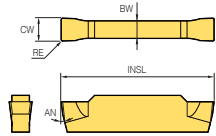
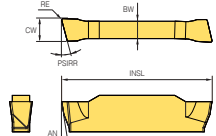
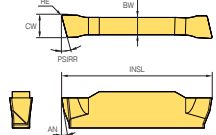
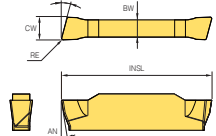
» Insert (KGT)

※ AN = 7°

Picture	Designation	Coated							Uncoated		Dimension (mm)						Geometry	
		NC3225	NC5330	NC6315	PC3035	PC5300	PC9030	SNC805	SPC810	H01	H05	CW	RE	INSL	BW	PSIRR		PSIRL
	KGMN 150-015-T	●	●			●						1.50	0.15	16.0	1.20	-	-	
	200-02-T	●	●	●	●	●	●					2.00	0.20	20.0	1.70	-	-	
	250-02-T	●	●			●						2.50	0.20	20.0	2.00	-	-	
	300-02-T	●	●	●	●	●	●					3.00	0.20	20.0	2.30	-	-	
	300-04-T	●	●	●	●	●	●	●	●			3.00	0.40	20.0	2.30	-	-	
	400-04-T	●	●	●	●	●	●	●	●			4.00	0.40	20.0	3.30	-	-	
	400-08-T	●	●	●	●	●	●					4.00	0.80	20.0	3.30	-	-	
	500-04-T	●	●	●	●	●	●					5.00	0.40	25.0	4.10	-	-	
	500-08-T	●	●	●	●	●	●					5.00	0.80	25.0	4.10	-	-	
	600-04-T	●	●	●	●	●	●	●	●			6.00	0.40	25.0	5.10	-	-	
	600-08-T	●	●	●	●	●						6.00	0.80	25.0	5.10	-	-	
	800-08-T	●		●	●	●						8.00	0.80	30.0	6.10	-	-	
	KGMN 150-015-R	●	●			●						1.50	0.15	16.0	1.20	-	-	
	200-02-R	●	●		●	●	●					2.00	0.20	20.0	1.70	-	-	
	300-02-R	●	●		●	●	●					3.00	0.20	20.0	2.30	-	-	
	400-03-R	●	●		●	●	●					4.00	0.30	20.0	3.30	-	-	
	500-03-R		●			●						5.00	0.30	25.0	4.10	-	-	
	600-03-R		●			●						6.00	0.30	25.0	5.10	-	-	
	800-04-R		●			●						8.00	0.40	30.0	6.10			
	KGGN 200S-02-A											2.00	0.20	20.0	1.70	-	-	
	300S-02-A											3.00	0.20	20.0	2.30	-	-	
	400S-04-A											4.00	0.40	20.0	3.30	-	-	
	500S-04-A											5.00	0.40	25.0	4.10	-	-	
	600S-04-A											6.00	0.40	25.0	5.10	-	-	
	KGGN 200S-02-R											2.00	0.20	19.9	1.70	-	-	
	300S-02-R					●						3.00	0.20	19.9	2.30	-	-	
	400S-02-R					●						4.00	0.20	19.9	3.30	-	-	
	500S-02-R					●						5.00	0.20	24.9	4.10	-	-	
	600S-02-R					●						6.00	0.20	24.9	5.10	-	-	
	800S-04-R					●						8.00	0.40	24.9	6.10	-	-	
	KGGN 200-02-A									●		2.00	0.20	20.0	1.70	-	-	
	300-02-A									●		3.00	0.20	20.0	2.30	-	-	
	400-04-A									●		4.00	0.40	20.0	3.30	-	-	
	500-04-A									●		5.00	0.40	25.0	4.10	-	-	
	600-04-A									●		6.00	0.40	25.0	5.10	-	-	
	KGGN 265-015-B											2.65	0.15	20.0	2.30	-	-	
	300-020-B											3.00	0.20	20.0	2.30	-	-	
	300-040-B											3.00	0.40	20.0	2.30	-	-	
	315-015-B											3.15	0.15	20.0	2.30	-	-	
	400-040-B											4.00	0.40	20.0	3.30	-	-	
	400-080-B											4.00	0.80	20.0	3.30	-	-	
	415-015-B											4.15	0.15	20.0	3.30	-	-	

» Insert (KGT)

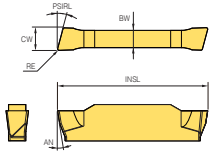
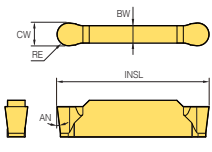
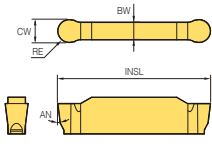
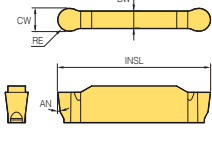
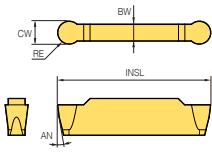
※ AN = 7°

Picture	Designation	Coated								Uncoated		Dimension (mm)						Geometry
		NC3225	NC5330	NC6315	PC3035	PC5300	PC9030	SNC805	SPC810	H01	H05	CW	RE	INSL	BW	PSIRR	PSIRL	
	KGGN 478-055-B											4.78	0.55	25.0	4.10	-	-	
	500-080-B											5.00	0.80	25.0	4.10	-	-	
	515-015-B											5.15	0.15	25.0	4.10	-	-	
	600-080-B											6.00	0.80	25.0	5.10	-	-	
	600-120-B											6.00	1.20	25.0	5.10	-	-	
	800-080-B											8.00	0.80	30.0	6.10	-	-	
	800-120-B											8.00	1.20	30.0	6.10	-	-	
	KGGN 200-02-R											2.00	0.20	20.0	1.70	-	-	
	300-02-R											3.00	0.20	20.0	2.30	-	-	
	400-03-R											4.00	0.30	20.0	3.30	-	-	
	500-03-R											5.00	0.30	25.0	4.10	-	-	
	600-03-R											6.00	0.30	25.0	5.10	-	-	
	800-04-R											8.00	0.40	30.0	6.10	-	-	
	KGMI 200-02-T				●							2.00	0.20	20.0	1.70	-	-	
	300-04-T				●							3.00	0.40	20.0	2.30	-	-	
	400-04-T				●							4.00	0.40	20.0	3.30	-	-	
	KGMR 200-6D-LP	●			●							2.00	0.20	20.0	1.70	6.0	-	
	200-8D-LP				●							2.00	0.20	20.0	1.70	8.0	-	
	200-15D-LP	●			●							2.00	0.20	20.0	1.70	15.0	-	
	300-6D-LP	●			●							3.00	0.20	20.0	2.30	6.0	-	
	300-15D-LP	●			●							3.00	0.20	20.0	2.30	15.0	-	
	400-4D-LP	●			●							4.00	0.30	20.0	3.30	4.0	-	
	400-15D-LP											4.00	0.30	20.0	3.30	15.0	-	
	500-4D-LP											5.00	0.30	25.0	4.10	4.0	-	
	KGMR 200-6D-RP	●			●							2.00	0.20	20.0	1.70	6.0	-	
	200-8D-RP				●							2.00	0.20	20.0	1.70	8.0	-	
	200-15D-RP	●			●							2.00	0.20	20.0	1.70	15.0	-	
	300-6D-RP	●			●							3.00	0.20	20.0	2.30	6.0	-	
	300-15D-RP	●			●							3.00	0.20	20.0	2.30	15.0	-	
	400-4D-RP	●			●							4.00	0.30	20.0	3.30	4.0	-	
	400-15D-RP	●			●							4.00	0.30	20.0	3.30	15.0	-	
	500-4D-RP											5.00	0.30	25.0	4.10	4.0	-	
	KGML 200-6D-LP											2.00	0.20	20.0	1.70	-	6.0	
	200-15D-LP											2.00	0.20	20.0	1.70	-	15.0	
	300-6D-LP											3.00	0.20	20.0	2.30	-	6.0	
	300-15D-LP											3.00	0.20	20.0	2.30	-	15.0	
	400-4D-LP											4.00	0.20	20.0	3.30	-	4.0	
	400-15D-LP											4.00	0.20	20.0	3.30	-	15.0	

● : Stock item

» Insert (KGT)

※ AN = 7°

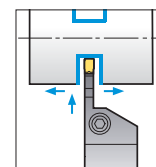
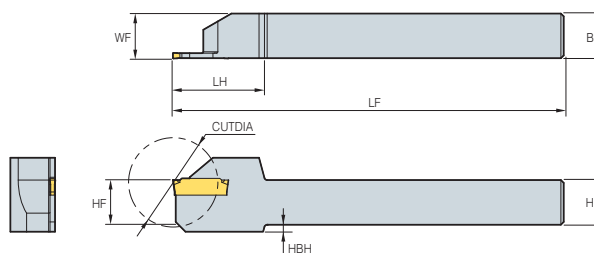
Picture	Designation	Coated							Uncoated		Dimension (mm)						Geometry	
		NC3225	NC5330	NC6315	PC3035	PC5300	PC9030	SNC805	SPC810	H01	H05	CW	RE	INSL	BW	PSIRR		PSIRL
	KGML 200-6D-RP											2.00	0.20	20.0	1.70	-	6.0	
	200-15D-RP											2.00	0.20	20.0	1.70	-	15.0	
	300-6D-RP											3.00	0.20	20.0	2.30	-	6.0	
	300-15D-RP											3.00	0.20	20.0	2.30	-	15.0	
	400-4D-RP											4.00	0.20	20.0	3.30	-	4.0	
	400-15D-RP											4.00	0.20	20.0	3.30	-	15.0	
	KRMN 200-C	●	●	●	●	●						2.00	1.00	20.0	1.70	-	-	
	300-C	●	●		●	●		●	●			3.00	1.50	20.0	2.20	-	-	
	400-C	●	●	●	●	●		●	●			4.00	2.00	20.0	3.20	-	-	
	500-C	●	●	●	●	●		●	●			5.00	2.50	25.0	4.00	-	-	
	600-C	●	●	●	●	●						6.00	3.00	25.0	5.00	-	-	
	800-C	●	●	●		●						8.00	4.00	30.0	6.00	-	-	
	KRGN 300-A									●		3.00	1.50	20.0	2.20	-	-	
	400-A									●		4.00	2.00	20.0	3.20	-	-	
	500-A									●		5.00	2.50	25.0	4.10	-	-	
	600-A									●		6.00	3.00	25.0	5.10	-	-	
	800-A											8.00	4.00	30.0	6.10	-	-	
	KRGN 300-CM					●		●	●			3.00	1.50	20.0	2.20	-	-	
	400-CM					●		●	●			4.00	2.00	20.0	3.20	-	-	
	500-CM					●		●	●			5.00	2.50	25.0	4.00	-	-	
	600-CM											6.00	3.00	25.0	5.00	-	-	
	KRMI 200-C											2.00	1.00	20.0	1.70	-	-	
	300-C											3.00	1.50	20.0	2.20	-	-	
	400-C											4.00	2.00	20.0	3.20	-	-	

●: Stock item

KGEHR/L-H-DOOB (Auto Tool)



KGMN(H)



• R type holder

(mm)

Designation		Stock		H = HF	B	CUTDIA	WF	LH	LF	HBH	Applicable (KGT-H)		
		R	L										
KGEHR/L	1010-1.5H-D30B	●		10	10	30	10.15	32	140	6.6	KGMN150H-□-□	MHA0512	HW40L
	1212-1.5H-D25B	●		12	12	25	12.15	29.5	140	3.5			
	1212-1.5H-D30B	●		12	12	30	12.15	32	140	3.5			
	1616-1.5H-D25B	●		16	16	25	16.15	29.5	140	2.5			
	1616-1.5H-D32B	●		16	16	32	16.15	33	140	2.5			
	1010-2H-D30B	●		10	10	30	10.1	32	140	6.6	KGMN200H-□-□		
	1212-2H-D25B	●		12	12	25	12.1	29.5	140	3.5			
	1212-2H-D30B	●		12	12	30	12.1	32	140	3.5			
	1616-2H-D25B	●		16	16	25	16.1	29.5	140	2.5			
	1616-2H-D32B	●		16	16	32	16.1	33	140	2.5			
	1010-2.5H-D30B	●		10	10	30	10.25	32	140	6.6	KGMN250H-□-□		
	1212-2.5H-D25B	●		12	12	25	12.25	29.5	140	3.5			
	1212-2.5H-D30B	●		12	12	30	12.25	32	140	3.5			
	1616-2.5H-D25B	●		16	16	25	16.25	29.5	140	2.5			
	1616-2.5H-D32B	●		16	16	32	16.25	33	140	2.5			
	1212-3H-D25B	●		12	12	25	12.3	29.5	140	3.5	KGMN300H-□-□		
	1212-3H-D32B	●		12	12	32	12.3	33	140	3.5			
	1616-3H-D25B	●		16	16	25	16.3	29.5	140	2.5			
	1616-3H-D32B	●		16	16	32	16.3	33	140	2.5			

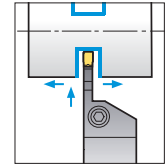
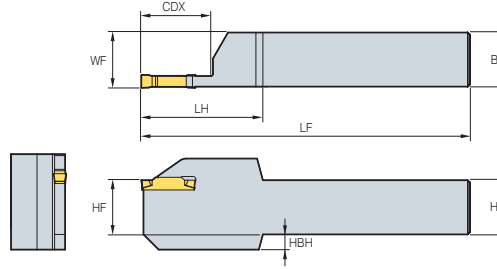
※ KGT-H is not compatible with KGT inserts and holders because its thickness differs from that of the KGT insert.

●: Stock item

KGEHR/L



KGMN KGGN
KRMN KRGN KGMR/L



• R type holder

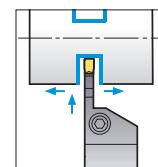
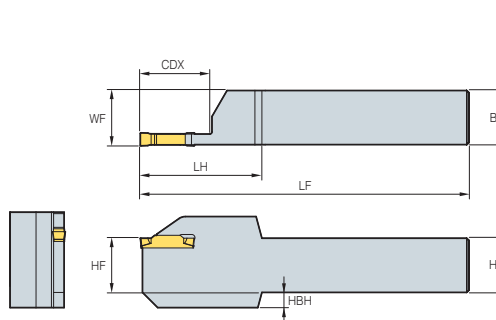
(mm)

Designation	Stock		H = HF	B	CDX	WF	LH	LF	HBH	Applicable (KGT)	Screw 	Wrench 
	R	L										
KGEHR/L 1616-1.5-T14	●		16	16	14	16.2	33	100	-	KGMN150-□-□	MHA0512	HW40L
2020-1.5-T14	●		20	20	14	20.2	33	125	-			
2525-1.5-T14	●		25	25	14	25.2	33	150	-			
1212-2-T08	●		12	12	8	12.2	33	100	-	KGMN200-□-□ KGGN200-□-□ KRMN200-C KGMR/L200-□-□	MHA0512	HW40L
1616-2-T08	●	●	16	16	8	16.2	33	100	-			
1616-2-T12	●	●	16	16	12	16.2	33	100	-			
1616-2-T17	●	●	16	16	17	16.2	38	100	-			
2020-2-T08	●	●	20	20	8	20.2	33	125	-			
2020-2-T12	●	●	20	20	12	20.2	33	125	-			
2020-2-T17	●	●	20	20	17	20.2	38	125	-			
2525-2-T08	●	●	25	25	8	25.2	33	150	-			
2525-2-T12	●	●	25	25	12	25.2	36	150	-			
2525-2-T17	●	●	25	25	17	25.2	38	150	-			
1616-2.5-T17	●		16	16	17	16.3	38	100	-	KGMN250-□-□	MHA0512	HW40L
2020-2.5-T17	●		20	20	17	20.3	38	125	-			
2525-2.5-T17	●		25	25	17	25.3	38	150	-			
1616-3-T10	●	●	16	16	10	16.4	33	100	-	KGMN300-□-□ KGGN300-□-□ KRMN300-C KRGN300-□ KGMR/L300-□-□	MHA0512	HW40L
1616-3-T13	●	●	16	16	13	16.4	33	100	-			
1616-3-T20	●	●	16	16	20	16.4	41	100	-			
2020-3-T10	●	●	20	20	10	20.4	33	125	-			
2020-3-T13	●	●	20	20	13	20.4	33	125	-			
2020-3-T20	●	●	20	20	20	20.4	41	125	-			
2525-3-T10	●	●	25	25	10	25.4	33	150	-			
2525-3-T13	●	●	25	25	13	25.4	33	150	-			
2525-3-T20	●	●	25	25	20	25.4	41	150	-			
2525-3-T25	●	●	25	25	25	25.4	46	150	-			
3232-3-T10	●		32	32	10	32.4	33	170	-			
3232-3-T20	●		32	32	20	32.4	41	170	-			
1616-4-T10	●	●	16	16	10	16.4	33	100	-	KGMN400-□-□ KGGN400-□-□ KRMN400-C KRGN400-□ KGMR/L400-□-□	BHA0616	HW50L
1616-4-T15	●	●	16	16	15	16.4	36	100	-			
1616-4-T20	●	●	16	16	20	16.4	41	100	-			
1616-4-T25	●	●	16	16	25	16.4	46	100	-			
2020-4-T10	●	●	20	20	10	20.4	33	125	-			
2020-4-T15	●	●	20	20	15	20.4	36	125	-			
2020-4-T20	●	●	20	20	20	20.4	41	125	-			
2020-4-T25	●	●	20	20	25	20.4	46	125	-			
2525-4-T10	●	●	25	25	10	25.4	33	150	-			
2525-4-T15	●	●	25	25	15	25.4	36	150	-			
2525-4-T20	●	●	25	25	20	25.4	41	150	-			
2525-4-T25	●	●	25	25	25	25.4	46	150	-			
3232-4-T10	●		32	32	10	32.4	33	170	-			
3232-4-T20	●	●	32	32	20	32.4	41	170	-			

KGEHR/L



KGMN KGGN
KRMN KRGN KGMR/L



• R type holder

(mm)

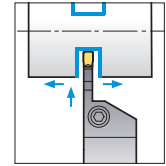
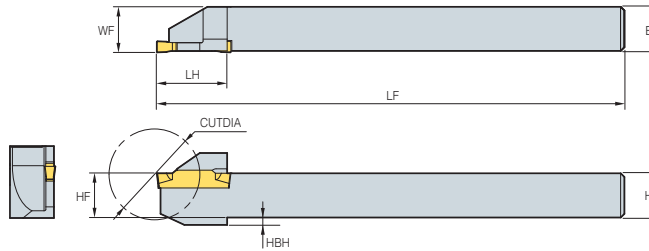
Designation		Stock		H = HF	B	CDX	WF	LH	LF	HBH	Applicable (KGT)		
		R	L										
KGEHR/L	2020-5-T12	●	●	20	20	12	20.5	37	125	-	KGMN500-□-□ KGGN500-□-□ KRMN500-C KRGN500-□ KGMR-□-□	BHA0616	HW50L
	2020-5-T15	●	●	20	20	15	20.55	40	125	-			
	2020-5-T20	●		20	20	20	20.55	41	125	-			
	2525-5-T12	●		25	25	12	25.55	37	150	-			
	2525-5-T15	●	●	25	25	15	25.55	40	150	-			
	2525-5-T20	●	●	25	25	20	25.55	41.2	150	-			
	2525-5-T32	●	●	25	25	32	25.55	53	150	7			
	3232-5-T15	●		32	32	15	32.55	40	170	-			
	3232-5-T20	●	●	32	32	20	32.55	41	170	-			
	2020-6-T12	●	●	20	20	12	20.55	37	125	-		KGMN600-□-□ KGGN600-□-□ KRMN600-C KRGN600-□	
2020-6-T20	●		20	20	20	20.55	41	125	-				
2525-6-T12	●	●	25	25	12	25.55	37	150	-				
2525-6-T15	●		25	25	15	25.55	40	150	-				
2525-6-T20	●	●	25	25	20	25.55	41	150	-				
2525-6-T32	●	●	25	25	32	25.55	53	150	7				
3232-6-T15	●		32	32	15	32.55	40	170	-				
3232-6-T20	●		32	32	20	32.55	41	170	-				
2525-8-T16	●	●	25	25	16	26.05	46	150	-	KGMN800-□-□ KGGN800-□-□ KRMN800-C KRGN800-□	BHA0616	HW50L	
2525-8-T25	●	●	25	25	25	26.05	46	150	-		BHA0620		
2525-8-T36	●		25	25	36	26.05	58	150	7		BHA0616		
3232-8-T16	●		32	32	16	33.05	40	170	-		BHA0616		
3232-8-T25	●		32	32	25	33.05	46	170	-		BHA0620		
3232-8-T36	●	●	32	32	36	33.05	58	170	-				

● : Stock item

KGEHR/L-D00A (Auto Tool)



KGMN KGGN
KRMN KRGH KGMR/L



• R type holder

(mm)

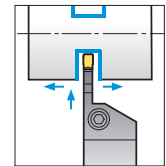
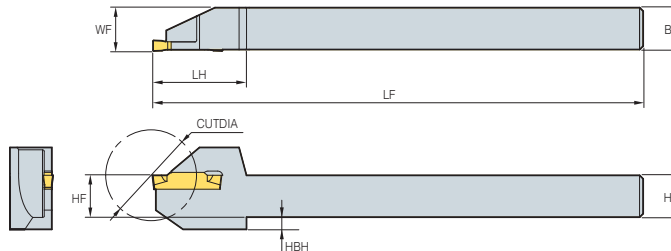
Designation	Stock		H = HF	B	CUTDIA	WF	LH	LF	HBH	Applicable (KGT)	Screw	Wrench
	R	L										
KGEHR/L	1010-2-D20A	●	●	10	10	20	10.2	19	125	2	ETNA0412	TW15L
		●	●	12	12	25	12.2	19	125	2		
		●	●	14	14	25	14.2	19	125	-		
		●	●	16	16	32	16.2	25	125	-		
	1212-3-D25A	●	●	12	12	25	12.4	19	125	2		
		●	●	16	16	32	16.4	25	125	-		

● : Stock item

KGEHR/L-D00B (Auto Tool)



KGMN KGGN
KRMN KRGH KGMR/L



• R type holder

(mm)

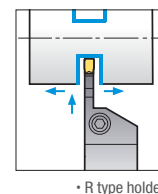
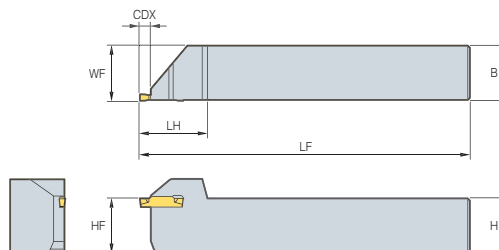
Designation	Stock		H = HF	B	CUTDIA	WF	LH	LF	HBH	Applicable (KGT)	Screw	Wrench
	R	L										
KGEHR/L	1010-2-D30B	●	●	10	10	30	10.2	29.6	140	6.6	MHA0512	HW40L
		●	●	12	12	25	12.2	27.1	140	3.5		
		●	●	12	12	30	12.2	29.6	140	3.5		
	1616-2-D25B	●	●	16	16	25	16.2	27.1	140	-		
		●	●	16	16	32	16.2	30.6	140	-		
	1212-3-D25B	●	●	12	12	25	12.4	27.1	140	3.5		
		●	●	12	12	32	12.4	30.6	140	3.5		
	1616-3-D25B	●	●	16	16	25	16.4	26.96	140	-		
		●	●	16	16	32	16.4	27.1	140	-		

● : Stock item

KGEHR/L-T00



KGMN KGGN
KRMN KRGN



(mm)

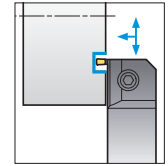
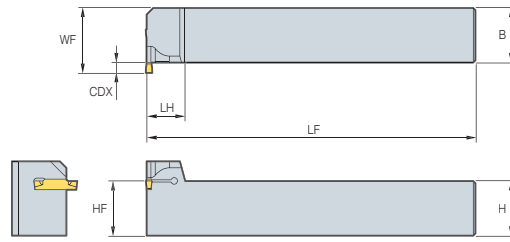
Designation	Stock		H = HF	B	CDX	WF	LH	LF	Applicable (KGT)	Screw	Wrench
	R	L									
KGEHR/L	1616-3-T00		16	16	4.8	16.4	31	100	KGMN300-□-□ KGGN300-□-□ KRMN300-C KRGN300-□	MHA0512	HW40L
	2020-3-T00		20	20	4.8	20.4	31	125			
	●	●	25	25	4.8	25.4	31	150			
	1616-4-T00		16	16	4.8	16.4	31	100	KGMN400-□-□ KGGN400-□-□ KRMN400-C KRGN400-□	BHA0616	HW50L
	2020-4-T00		20	20	4.8	20.4	31	125			
	●	●	25	25	4.8	25.4	31	150			
	2020-6-T00		20	20	6	20.55	36	125	KGMN600-□-□ KGGN600-□-□ KRMN600-C KRGN600-□	BHA0616	HW50L
	2525-6-T00		25	25	6	25.55	36.5	150			

● : Stock item

KGEVR/L-T00



KGMN KGGN
KRMN KRGN



• R type holder

(mm)

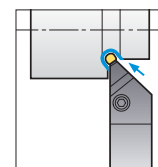
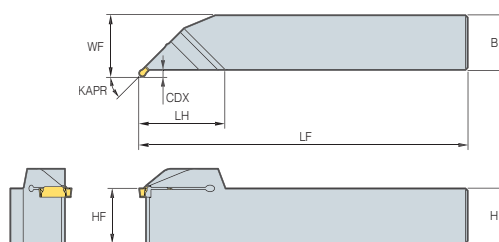
Designation		Stock		H = HF	B	CDX	WF	LH	LF	Applicable (KGT)	Screw	Wrench
		R	L									
KGEVR/L	2020-1.5 -T00	●		20	20	3	24	18	125	KGMN150-□-□	MHA0512	HW40L
	2525-1.5 -T00	●		25	25	3	29	18	150			
	3232-1.5 -T00	●		32	32	3	36	22	170			
	2020-2 -T00	●		20	20	3	24	17.75	125	KGMN200-□-□ KGGN200-□-□ KRMN200-C	MHA0512	HW40L
	2525-2 -T00	●		25	25	3	29	17.75	150			
	3232-2 -T00	●		32	32	3	36	21.75	170			
	2020-2.5 -T00	●		20	20	4	25	18	125	KGMN250-□-□	MHA0512	HW40L
	2525-2.5 -T00	●		25	25	4	30	18	150			
	3232-2.5 -T00	●		32	32	4	37	21.75	170			
	2020-3-T00	●		20	20	4.8	25	18	125	KGMN300-□-□ KGGN300-□-□ KRMN300-C KRGN300-□	MHA0512	HW40L
	2525-3-T00	●		25	25	4.8	30	18	150			
	3232-3 -T00	●		32	32	4.8	37	22	170			
	2020-4-T00	●		20	20	4.8	25	19.6	125	KGMN400-□-□ KGGN400-□-□ KRMN400-C KRGN400-□	BHA0616	HW50L
	2525-4-T00	●		25	25	4.8	30	19.6	150			
	3232-4 -T00	●		32	32	4.8	37	22	170			
	2020-5 -T00	●		20	20	6	29.5	20	125	KGMN500-□-□ KGGN500-□-□ KRMN500-C KRGN500-□	BHA0616	HW50L
	2525-5 -T00	●		25	25	6	31.5	20	150			
	3232-5 -T00	●		32	32	6	38.5	24	170			
	2020-6 -T00	●		20	20	6	26.5	22	125	KGMN600-□-□ KGGN600-□-□ KRMN600-C KRGN600-□	BHA0616	HW50L
	2525-6-T00	●		25	25	6	31.5	22	150			
	3232-6 -T00	●		32	32	6	38.5	22	170			
	2525-8 -T00	●		25	25	8	33.5	24	150	KGMN800-□-□ KGGN800-□-□ KRMN800-C KRGN800-□	BHA0616	HW50L
	3232-8 -T00	●		32	32	8	40.5	24	170			

● : Stock item

KGEUR/L



KRMN KRGN



• R type holder

(mm)

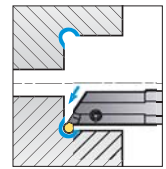
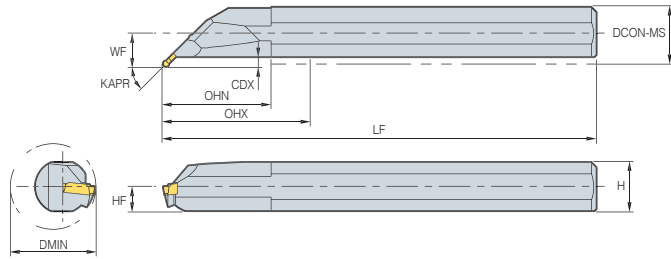
Designation	Stock		H = HF	B	CDX	WF	LH	LF	Applicable (KGT)	Screw 	Wrench 
	R	L									
KGEUR/L	1616-3	●	16	16	2.8	19	39.43	100	KRMN300-C KRGN300-□	MHA0512	HW40L
	2020-3	●	20	20	2.8	23	39.43	125			
	2525-3	●	25	25	2.8	28	39.43	150			
	3232-3	●	32	32	2.8	35	46.5	170			
	1616-4	●	16	16	2.8	19	42.25	100	KRMN400-C KRGN400-□	BHA0616	HW50L
	2020-4	●	20	20	2.8	23	42.25	125			
	2525-4	●	25	25	2.8	28	42.25	150			
	3232-4	●	32	32	2.8	35	46.5	170			
	2020-5	●	20	20	3.3	23.5	47.41	125	KRMN500-C KRGN500-□	BHA0616	HW50L
	2525-5	●	25	25	3.3	28.5	48.83	150			
	3232-5	●	32	32	3.3	35.5	53.07	170			
	2020-6	●	20	20	3.3	23.5	47.41	125	KRMN600-C KRGN600-□	BHA0616	HW50L
	2525-6	●	25	25	3.3	28.5	47.41	150			
	3232-6	●	32	32	3.3	35.5	53.07	170			
	2525-8	●	25	25	3.3	30	51.57	150	KRMN800-C KRGN800-□	BHA0616	HW50L
	3232-8	●	32	32	3.3	37	51.57	170			

●: Stock item

KGIUR/L



KRMN KRGN



• R type holder

(mm)

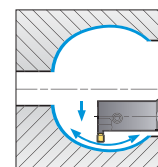
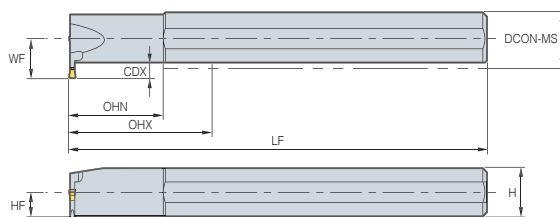
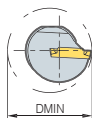
Designation		Stock		DMIN	DCON-MS	HF	H	CDX	WF	OHN	LF	Applicable (KGT)	Screw 	Wrench 
		R	L											
KGIUR/L	3520-3			35	20	9	18	3.5	13	45	150	KRMN300-C KRGN300-□	MHA0512	HW40L
	4025-3	●		40	25	11.5	23	3.5	15.5	50	200			
	5032-3	●		50	32	15	30	3.5	19	65	250			
	3520-4			35	20	9	18	3.5	13	45	150	KRMN400-C KRGN400-□	MHA0512	HW40L
	4025-4			40	25	11.5	23	3.5	15.5	50	200			
	5032-4	●		50	32	15	30	3.5	19	65	250			
	4025-5	●		40	25	11.5	23	3.5	15.5	50	200	KRMN500-C KRGN500-□	MHA0512	HW40L
	5032-5	●		50	32	15	30	3.5	19	65	250			
	4025-6	●		40	25	11.5	23	3.5	15.5	50	200	KRMN600-C KRGN600-□	MHA0512	HW40L
	5032-6	●		50	32	15	30	3.5	19	65	250			
	4025-8			40	25	11.5	23	6.5	18.5	50	200	KRMN800-C KRGN800-□	MHA0512	HW40L
	5032-8	●		50	32	15	30	6.5	22	65	250			

● : Stock item

KGIVR/L



KG MN KGGN KRMN
KRG N KGMI KRMI



• R type holder

(mm)

Designation	Stock		DMIN	DCON-MS	HF	H	CDX	WF	OHN	LF	Applicable (KGT)	Screw	Wrench
	R	L											
KGIVR/L	2016-1.5	●	20	16	7.5	15	4	12	35	125	KGMN150-□-□	MHB0410	HW30L
	2520-1.5	●	25	20	9.0	18	6	15.5	45	150		MHA0512	HW40L
	3225-1.5	●	32	25	11.5	23	7	19	45	200			
	2516-2	●	25	16	7.5	15	6.5	14	35	125	KGMI200-□-T KRMI200-C	MHB0410	HW30L
	2520-2	●	25	20	9.0	18	6.5	15	45	150		MHA0512	HW40L
	3225-2	●	32	25	11.5	23	7	19	45	200			
	2516-2.5	●	25	16	11.25	15	6.5	14	35	125	KGMN250-□-□	MHB0410	HW30L
	2520-2.5	●	25	20	9.0	18	6.5	15.5	45	150		MHA0512	HW40L
	3225-2.5	●	32	25	11.5	23	7	19	45	200			
	2520-3	●	25	20	9.0	18	6.5	15.5	45	150	KGMI300-□-T KRMI300-C	MHB0410	HW30L
	3225-3	●	32	25	11.5	23	6.5	19	45	200		MHA0512	HW40L
	4032-3	●	40	32	15.0	30	7	22.5	55	250		BHA0616	HW50L
	2520-4	●	25	20	9.0	18	6.5	15.5	45	150	KGMI400-□-T KRMI400-C	MHB0410	HW30L
	3225-4	●	32	25	11.5	23	7	19	45	200		MHA0512	HW40L
	4032-4	●	40	32	15.0	30	7.5	22.5	55	250		BHA0616	HW50L
	3225-5	●	32	25	11.5	23	7.5	19.5	45	200	KGMN500-□-□ KGGN500-□-□ KRMN500-C KRG N500-□	MHA0512	HW40L
	4032-5	●	40	32	15.0	30	8.5	23.5	55	250		BHA0616	HW50L
	3225-6	●	32	25	11.5	23	19.5	19.5	45	200	KGMN600-□-□ KGGN600-□-□ KRMN600-C KRG N600-□	MHA0512	HW40L
	4032-6	●	40	32	15.0	30	23.5	23.5	55	250		BHA0616	HW50L
	4032-8	●	40	32	15.0	30	23.5	23.5	55	250	KGMN800-□-□ KGGN800-□-□ KRMN800-C KRG N800-□-R	BHA0616	HW50L
	4540-8	●	45	40	18.5	37	26.5	26.5	70	300		BHA0820	HW50L

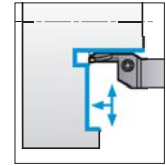
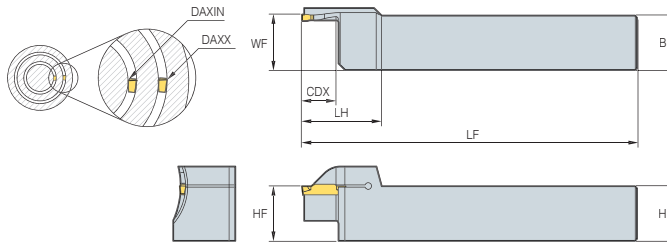
※ In case of using external insert instead of internal insert, please check the available insert for each item.

● : Stock item

KGFHR/L



KGMN KGGN
KRMN KRGN



• R type holder

(mm)

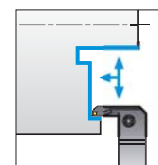
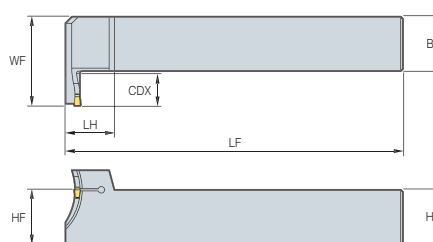
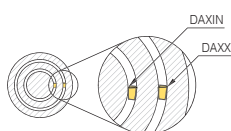
Designation	Stock		H = HF	B	CDX	WF	LH	LF	DAXIN	DAXX	Applicable (KGT)	Screw	Wrench
	R	L											
KGFHR/L 320-34/50-T10	●		20	20	10	20.5	33	150	34	50	KGMN300-□-□ KGGN300-□-□ KRMN300-C KRGN300-□	MHA0512	HW40L
320-44/70-T15	●		20	20	15	20.5	36	150	44	70			
320-64/100-T15	●		20	20	15	20.5	36	150	64	100			
325-34/50-T10	●		25	25	10	25.6	33	150	34	50			
325-44/70-T15	●		25	25	15	25.6	36	150	44	70			
325-64/100-T15	●		25	25	15	25.6	36	150	64	100			
420-34/50-T16	●		20	20	16	20.5	40	150	34	50	KGMN400-□-□ KGGN400-□-□ KRMN400-C KRGN400-□	BHA0616	HW50L
420-42/70-T16	●		20	20	16	20.5	40	150	42	70			
420-62/120-T16	●		20	20	16	20.5	40	150	62	120			
420-112/200-T16	●		20	20	16	20.5	40	150	112	200			
425-34/50-T20	●		25	25	20	25.6	41	150	34	50			
425-40/60-T10	●		25	25	10	25.6	33	150	40	60			
425-44/70-T20	●		25	25	20	25.6	39	150	44	70			
425-60/120-T20	●	●	25	25	15	25.6	39	150	60	120			
425-84/92-T20	●		25	25	20	25.6	39	150	84	92			
425-112/200-T20	●	●	25	25	20	25.6	39	150	112	200			
425-200-T20	●		25	25	20	25.6	41	150	200	-			
525-50/80-T15	●		25	25	15	25.6	38	150	50	80	KGMN500-□-□ KGGN500-□-□ KRMN500-C KRGN500-□	BHA0616	HW50L
525-50/80-T25	●		25	25	25	25.6	44	150	50	80			
525-70/110-T15	●		25	25	15	25.6	38	150	70	110			
525-70/110-T25	●		25	25	25	25.6	44	150	70	110			
525-100/150-T25	●		25	25	25	25.6	44	150	100	150			
525-140/200-T25	●		25	25	25	25.6	44	150	140	200			
525-190/220-T10	●		25	25	10	25.6	37	150	190	220			
525-200-T25	●		25	25	25	25.6	44	150	200	-			
625-170/190-T10	●		25	25	10	25.6	37	150	170	190	KGMN600-□-□ KGGN600-□-□ KRMN600-C KRGN600-□	BHA0616	HW50L
625-190/220-T10	●		25	25	10	25.6	37	150	190	220			

● : Stock item

KGFVR/L



KGMN KGGN
KRMN KRGN



• R type holder

(mm)

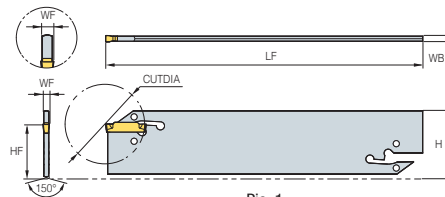
Designation	Stock		H = HF	B	CDX	WF	LH	LF	DAXIN	DAXX	Applicable (KGT)	Screw	Wrench
	R	L											
KGFVR/L 325-34/50-T10	●		25	25	10	36	18.5	150	34	50	KGMN300-□-□ KGGN300-□-□ KRMN300-C KRGN300-□	MHA0512	HW40L
325-44/60-T15	●		25	25	15	41	18.5	150	44	60			
325-54/85-T15	●		25	25	15	41	18.5	150	54	85			
425-32/50-T15	●		25	25	15	41	18.5	150	32	50	KGMN400-□-□ KGGN400-□-□ KRMN400-C KRGN400-□	BHA0616	HW50L
425-42/60-T15	●		25	25	15	41	18.5	150	42	60			
425-44/70-T20	●		25	25	20	46	18.5	150	44	70			
425-52/85-T15	●		25	25	10	35.5	18.5	150	52	85			
425-60/120-T20	●		25	25	20	46	18.5	150	60	120			
425-112/200-T20	●		25	25	20	46	18.5	150	112	200	KGMN500-□-□ KGGN500-□-□ KRMN500-C KRGN500-□	BHA0616	HW50L
525-50/80-T20	●		25	25	20	46	22	150	50	80			
525-70/110-T20	●		25	25	20	46	22	150	70	110			
525-100/150-T20	●		25	25	20	46	22	150	100	150			
525-140/200-T20	●		25	25	20	46	22	150	140	200			
525-200-T20	●		25	25	20	46	22	150	200	-	KGMN600-□-□ KGGN600-□-□ KRMN600-C KRGN600-□	BHA0616	HW50L
625-48/85-T20			25	25	20	46	22	150	48	85			
625-73/150-T20	●		25	25	20	46	22	150	73	150			
625-138/250-T20	●		25	25	20	46	22	150	138	250			
625-250-T20	●		25	25	20	46	22	150	250	-			

● : Stock item

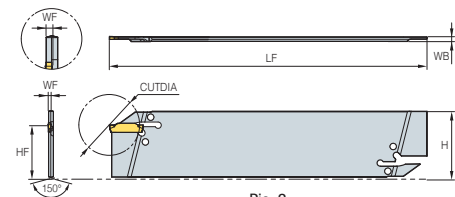
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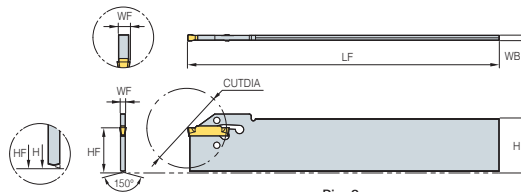
KGMN KGGN



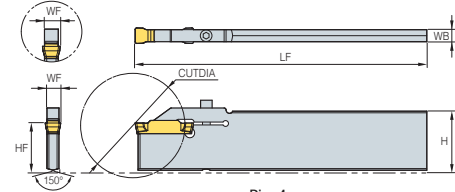
Pic. 1



Pic. 2



Pic. 3



Pic. 4

(mm)

Designation	Stock	HF	H	WB	CUT DIA ⁽²⁾	CUT DIA ⁽³⁾	WF	LF	Applicable (KGT)	Wrench	Pic.
KGTB 1526S		21	26	2.4	-	26	1.3	151	KG□□150-□-□ KG□□200-□-□ KG□□200S-□-R ⁽⁴⁾ KG□□300-□-□ KG□□300S-□-R ⁽⁴⁾ KG□□400-□-□ KG□□400S-□-R ⁽⁴⁾ KG□□500-□-□ KG□□500S-□-R ⁽⁴⁾ KG□□600-□-□ KG□□600S-□-R ⁽⁴⁾ KG□□800-□-□ KG□□800S-□-R ⁽⁴⁾	EW1203 (Separately ordered)	4
1532	●	25	32	2.4	-	26	1.3	151			1
2026S		21	26	2.4	50	39	1.9	151			4
2032	●	25	32	2.4	50	39	1.9	151			1
3026S	●	21	26	2.4	100	39	2.7	151			4
3032	●	25	32	2.4	100	39	2.7	151			2
4026S		21	26	3.2	100	39	3.6	151			4
4032	●	25	32	3.2	100	39	3.6	151			2
5032	●	25	32	4	120	49	4.5	151			2
6032	●	25	32	5.2	120	49	5.6	151			2
8032S ⁽¹⁾	●	25	32	6.5	80	59	7.1	151.5		HW30L	3

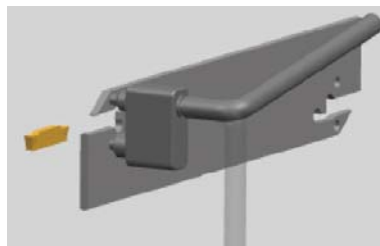
(1) Screw clamping (2) 1 corner use (3) 2 corner use (4) 1 corner insert

●: Stock item

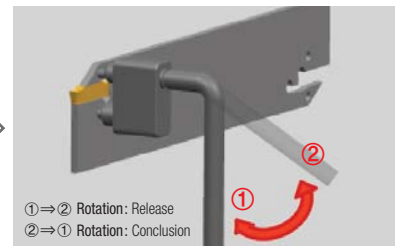
How to clamp insert



① Insert the pin of wrench into the hole of blade.



② Clamp the insert on its seat after turning the handle to 45°~160° for loosening the seat.



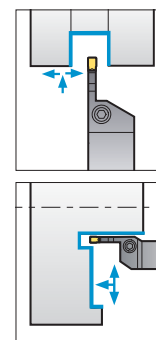
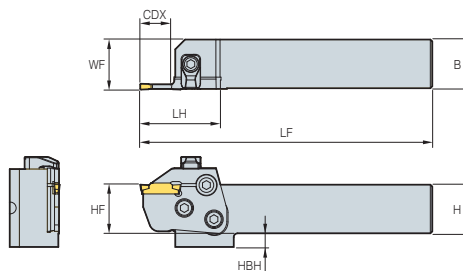
③ Finish clamp by removing the wrench after moving it back to its original state.

※ To increase tool life during cutting, it is recommended to reduce the feed rate by 80% starting from 2 mm offset from the center of the workpiece.

MCHR/L (Cartridge)



KCER/L KCFR/L



• R type holder

(mm)

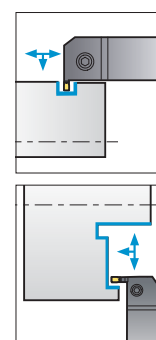
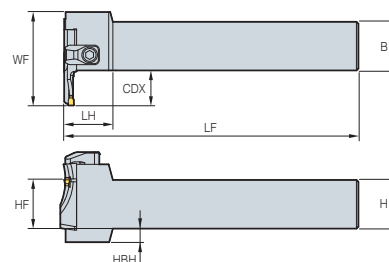
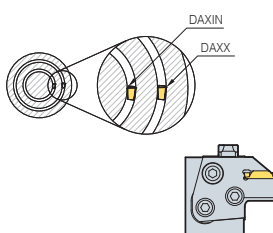
Designation		Stock		H = HF	B	WF	LH	LF	HBH	Applicable cartridge	Clamp	Clamp screw	Hinge screw	Clamping Screw	Wrench
		R	L												
MCHR/L	2020	●	●	20	20	20.7	30	133	12	KCER/L KCFR/L					
	2525	●	●	25	25	25.7	30	133	7						
	3232	●	●	32	32	32.7	-	153	-						

● : Stock item

MCVR/L (Cartridge)



KCER/L KCFR/L



• R type holder

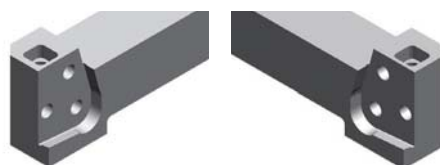
(mm)

Designation		Stock		H = HF	B	WF	LH	LF	HBH	Applicable cartridge	Clamp	Clamp screw	Hinge screw	Clamping Screw	Wrench
		R	L												
MCVR/L	2020	●	●	20	20	38	30	150	12	KCER/L KCFR/L					
	2525	●	●	25	25	43	30	150	7						
	3232	●	●	32	32	50	-	170	-						

● : Stock item

Cartridge selection guide

Horizontal type



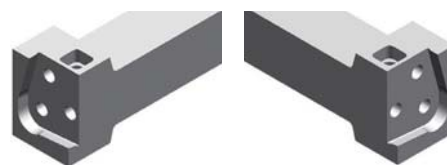
MCHR

- External : KCER
- Facing : KCFL

MCHL

- External : KCEL
- Facing : KCFR

Vertical type



MCVR

- External : KCEL
- Facing : KCFR

MCVL

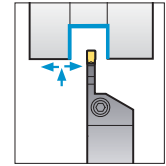
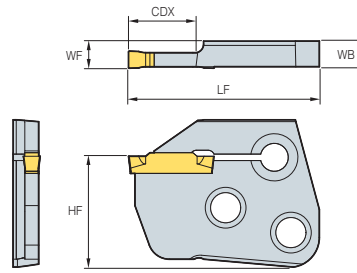
- External : KCER
- Facing : KCFL

Applicable
cartridge

KCER/L (Cartridge)



KGMN KGGN
KRMN KRGN KGMR/L



• R type holder

(mm)

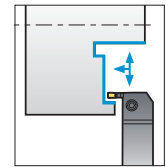
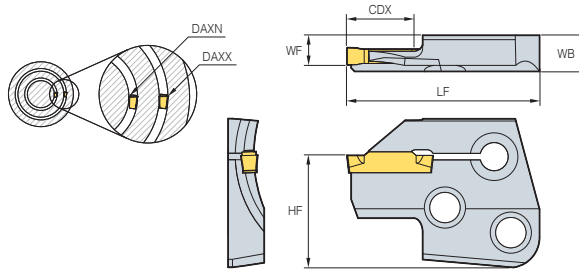
Designation	Stock		HF	CDX	WF	WB	LF	CW	Applicable (KGT)	Applicable holder
	R	L								
KCER/L	3-T16		25.83	16	6.35	5.97	44.5	3	KGMN KGGN KRMN KRGN KGMR/L	MCHR/L MCVR/L
	4-T16		25.83	16	6.35	5.97	44.5	4		
	5-T20		25.83	20	6.35	5.87	48.5	5		
	6-T20		25.83	20	6.35	5.82	48.5	6		

●: Stock item

KCFR/L (Cartridge)



KGMN KGGN
KRMN KRGN



• R type holder

(mm)

Designation		Stock		HF	CDX	WF	WB	LF	DAXIN	DAXX	Applicable (KGT)	Applicable holder
		R	L									
KCFR/L	3-34/50-T16	●	●	25.83	16	6.35	8.35	44.5	34	50	KGMN300-□-□	MCHR/L MCVR/L
	3-44/70-T16	●	●	25.83	16	6.35	8.35	44.5	44	70	KGGN300-□-□	
	3-64/99-T16	●	●	25.83	16	6.35	8.35	44.5	64	99	KRMN300-C	
	4-44/60-T16	●	●	25.83	16	6.35	8.35	44.5	44	60	KRGN300-CM	
	4-60/120-T16	●	●	25.83	16	6.35	8.35	44.5	60	120	KGMN400-□-□	
	4-112/200-T16	●	●	25.83	16	6.35	8.35	44.5	112	200	KGGN400-□-□	
											KRMN400-C	
											KRGN400-□	

●: Stock item

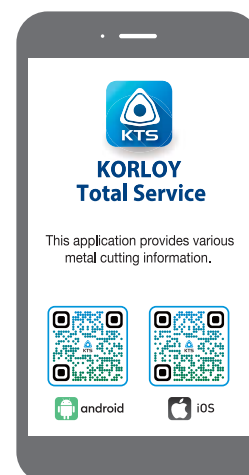
For the safe metalcutting

- Use safety supplies such as protective gloves to prevent possible injury while touching the edge of tools.
- Use safety glasses or safety cover to hedge possible dangers. Inappropriate usage or excessive cutting condition may lead tool's breakage or even the fragment's scattering.
- Clamp the workpiece tightly enough to prevent its movement while its machining.
- Properly manage the tool change phase because the inordinately used tool can be easily broken under the excessive cutting load or severe wear, and it may threat the operator's safety.
- Use safety cover because chips evacuated during cutting are hot and sharp and may cause burns and cuts. To remove chips safely, stop machining, put on protective gloves, and use a hook or other tools.
- Prepare for fire prevention measures as the use of the non-water soluble cutting oil may cause fire.
- Use safety cover and other safety supplies because the spare parts or the tools can be pulled out due to centrifugal force while high speed machining.



Head Office: Holystar B/D, 326, Seocho-daero, Seocho-gu, Seoul, 06633, Republic of Korea

Tel: +82-2-522-3181 Fax: +82-2-522-3184, +82-2-3474-4744 Web: www.korloy.com E-mail: sales.khq@korloy.com



KORLOY AMERICA

620 Maple Avenue, Torrance, CA 90503, USA

Tel : +1-310-782-3800 / +1-888-711-0001 Fax : +1-310-782-3885

E-mail : sales.kai@korloy.com

KORLOY INDIA

Plot No. 415, Sector 8, IMT Manesar, Gurgaon 122051, Haryana, India

Tel : +91-124-4391790 Fax : +91-124-4050032

E-mail : sales.kip@korloy.com

KORLOY TURKIYE

Ziya Gokalp, Mah. Seyit Onbasi Cad. No:36, 3 Kat,

iC Kapi No : 5 Basaksehir/Istanbul, Turkiye

Tel : +90-212-813-8874 E-mail : sales.ktl@korloy.com

KORLOY RUSSIA

115280, Moscow, vn.ter.g. municipal district Danilovsky,
street Masterkova, house 4, premises 1/2

Tel : +7-495-280-1458 Fax : +7-495-280-1459 E-mail : sales.krc@korloy.com

KORLOY UK

Unit B2, Loades Ecoparc, Blackhorse Road, Exhall CV7 9FW

Tel : +44 7931 085478 E-mail : sales.kul@korloy.com

KORLOY EUROPE

Gablonzer Str. 25-27, 61440 Oberursel, Germany

Tel : +49-6171-27783-0 Fax : +49-6171-27783-59

E-mail : sales.keg@korloy.com

KORLOY BRASIL

Av. Aruana 280, conj. 12, WLC, Alphaville, Barueri, CEP06460-010, SP, Brasil

Tel : +55-11-4193-3810 Fax : +55-11-4193-5837

E-mail : sales.kbl@korloy.com

KORLOY CHILE

Av. Providencia 1650, Office 1009, 7500027

Providencia-Santiago, Chile

Tel : +56-229-295-490 E-mail : sales.kcs@korloy.com

KORLOY MEXICO

Avenida de las Ciencias, No. 3015, Interior 406, Juriquilla Santa Fe,
C.P.76230 Querétaro, Mexico

Tel : +52-442-193-3600 E-mail : sales.kml@korloy.com

KORLOY CENTRAL EUROPE

Unit B03005, Repuloteri ut 2a, Budapest, 1112, Hungary

E-mail : sales.kce@korloy.com

KORLOY FACTORY INDIA

Plot NO. 415, Sector 8, IMT Manesar, Gurgaon 122051, Haryana, India

Tel : +91-124-4391790 Fax : +91-124-4050032

E-mail : pro.kim@korloy.com