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

KGT

KORLOY TECH-NEWS

- Chip breaker with good chip control and cutting performance
- Providing customers with the optimal cutting solutions they need

KORLOY

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TECH-NEWS

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

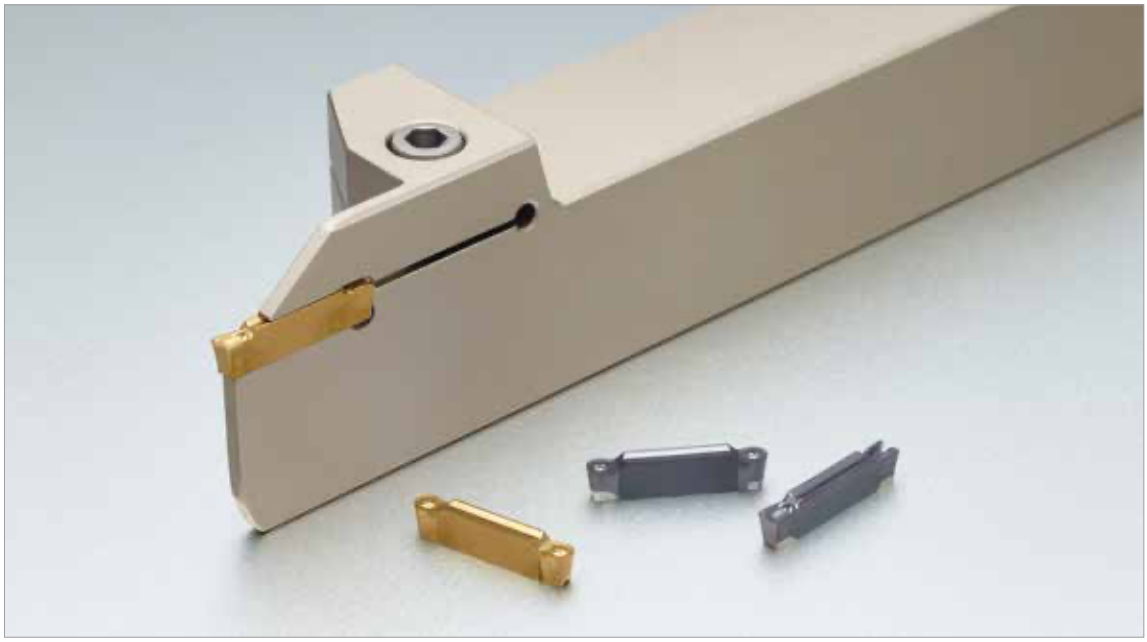
KGT

Grooving and cutting processes are used in various machining and cutting applications, and recently, there is a need for 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.

KTG Inserts are applied reinforced edge design and and high-quality edge treatment to protect the cutting edge and to realize stable performance in various machining conditions As a result, they achieve excellent surface finish with dimensional precision and provide superior performance in high-speed and high-precision machining.

KTG Holders provide high machining stability and long tool life by effectively suppressing vibrations generated during machining through a clamping system. The KGT offers a wide range of inserts and holders suitable for Grooving, Cutting, 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

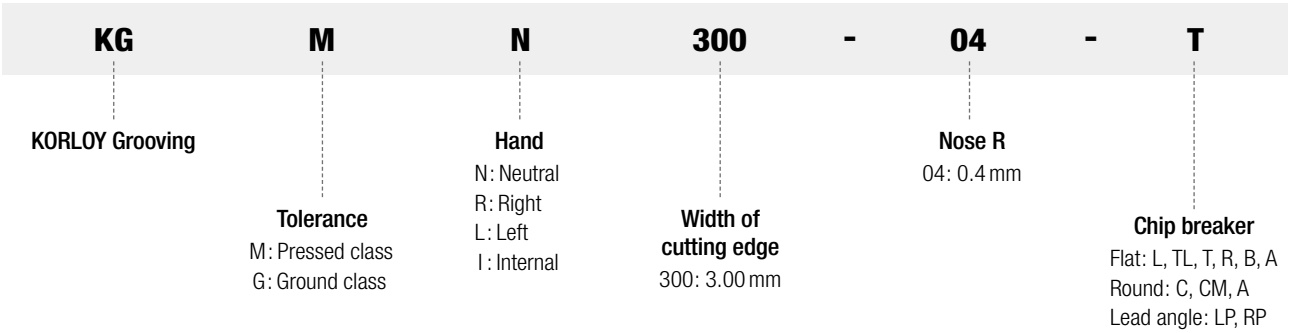
High cutting performance
- High surface finish and high precision

Stable clamping system
- Minimized chattering in cutting through clamp clamping

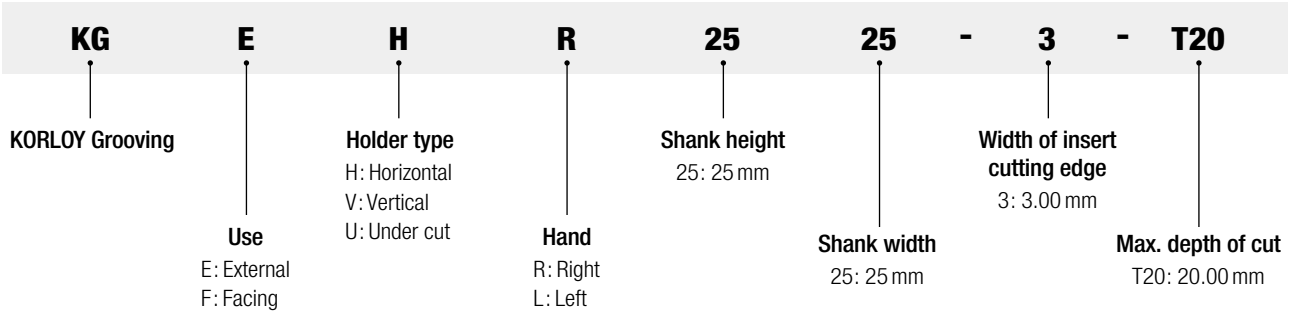
Optimal machining solutions
- Providing the optimal cutting solution in various cutting conditions

Code system

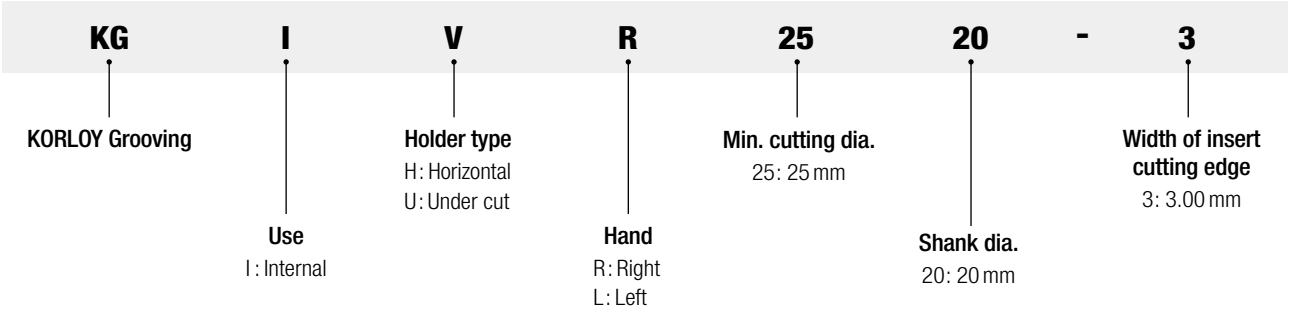
Insert



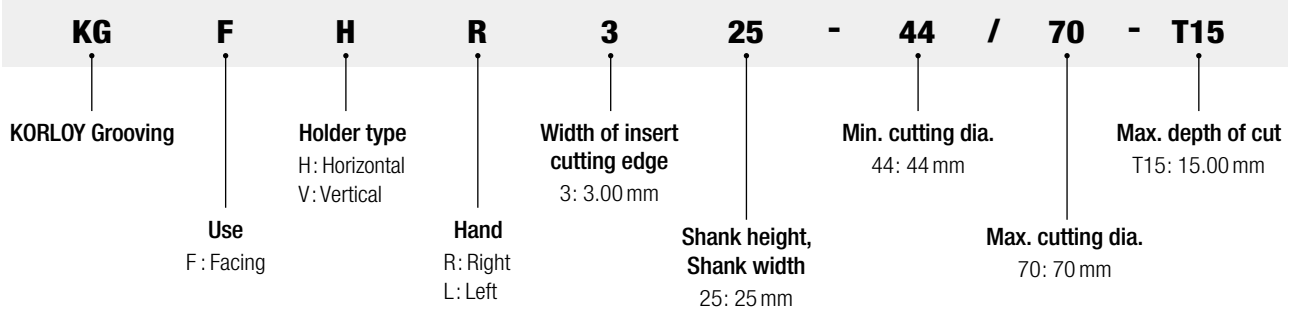
Shank (External)



Shank (Internal)



Shank (Facing)



Code system

Blade

KGTB	30	32	S
KORLOY Grooving Tool Blade	Blade height 30: 3.00 mm	Width of insert cutting edge 32: 32 mm	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: 25 mm	Shank dia. 25: 25 mm

Cartridge (Internal)

KC	E	R	3	-	T16
KGT Cartridge system	Use E: External	Hand R: Right L: Left	Width of insert cutting edge 3: 3.00 mm		Max. depth of cut T16: 16.00 mm

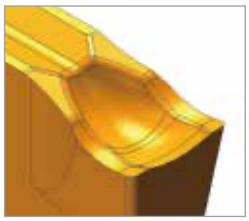
Cartridge (Facing)

KC	F	R	3	-	44	/	70	-	T16
KGT Cartridge system	Use F : Facing	Hand R: Right L: Left	Width of insert cutting edge 3: 3.00 mm		Min. cutting dia. 44: 44 mm		Max. cutting dia. 70: 70 mm		Max. depth of cut T16: 16.00 mm

Features of Chip breaker

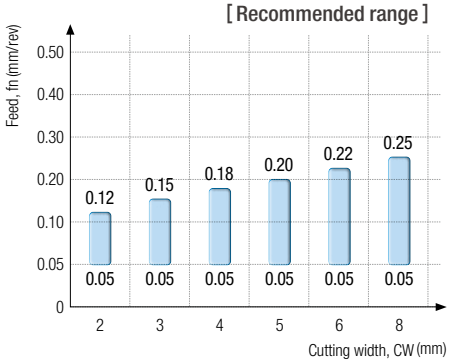
◎: 1st recommendation ○: 2nd recommendation

L : Light grooving



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

[Recommended range]



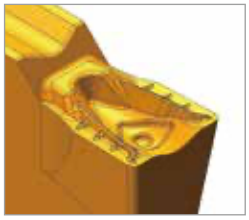
Recommended cutting

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

Recommended workpiece

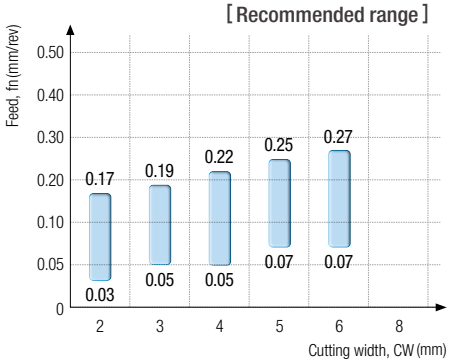
P	M	K	N	S
◎	○			

TL : Turning and grooving in Low feed



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

[Recommended range]



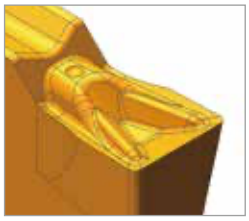
Recommended cutting

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

Recommended workpiece

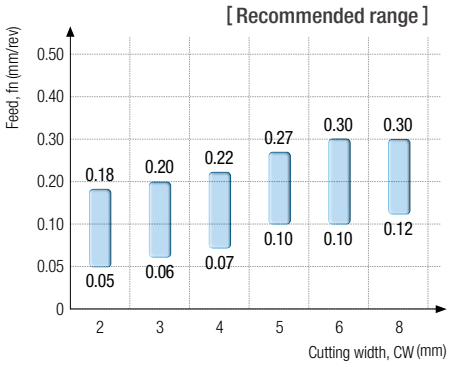
P	M	K	N	S
○	○			◎

T : Turning and grooving



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

[Recommended range]



Recommended cutting

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

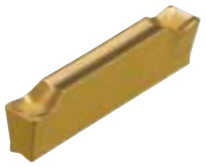
Recommended workpiece

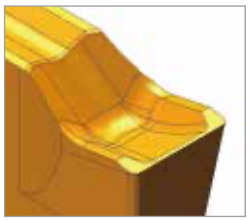
P	M	K	N	S
◎	○	○		

Features of Chip breaker

◎: 1st recommendation ○: 2nd recommendation

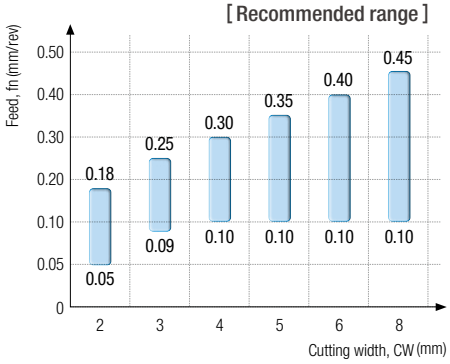
R : Rough grooving





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

[Recommended range]



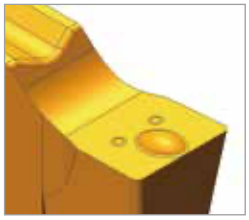
Recommended cutting

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

Recommended workpiece

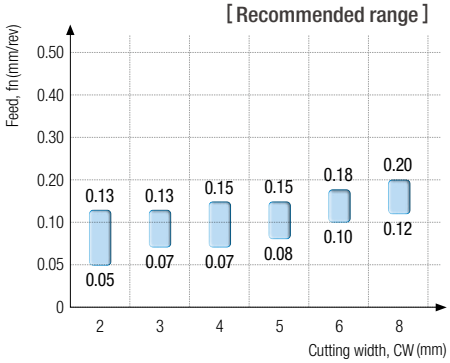
P	M	K	N	S
◎	○	◎		

B : Blank for precision grooving



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

[Recommended range]



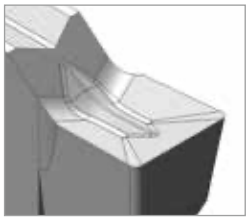
Recommended cutting

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

Recommended workpiece

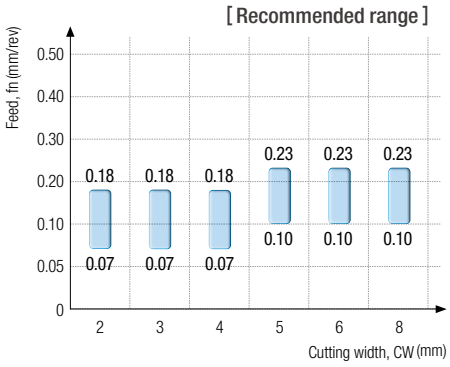
P	M	K	N	S
◎		○		

A : Aluminum grooving



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

[Recommended range]



Recommended cutting

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

Recommended workpiece

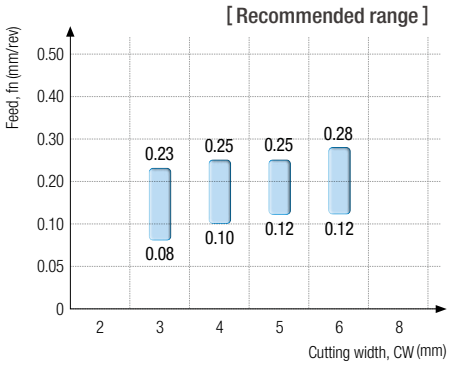
P	M	K	N	S
			◎	

Features of Chip breaker

◎: 1st recommendation ○: 2nd recommendation

CM : Copying and relief in Medium feed New

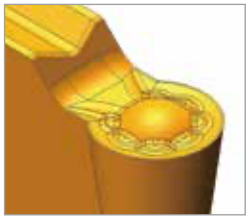
- For Copying and Relief
- Round cutting edge
- Bump on rake surface
- For HRSA cutting
- Good surface finish of workpiece



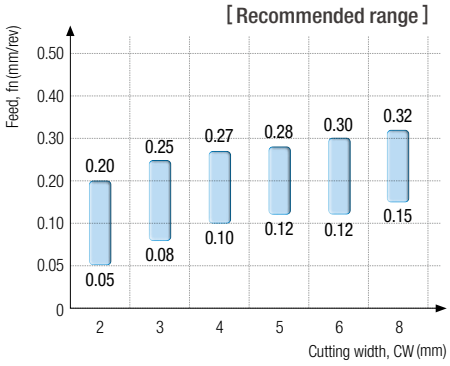
Recommended cutting												
External					Internal				Facing		Special
Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning	
			◎	◎			○	○			

Recommended workpiece				
P	M	K	N	S
○	○			◎

C : Copying and relief



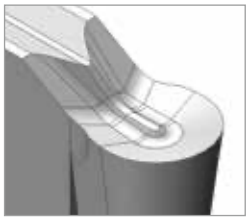
- For Copying and Relief
- Round cutting edge
- Bump on rake surface
- Good surface finish of workpiece



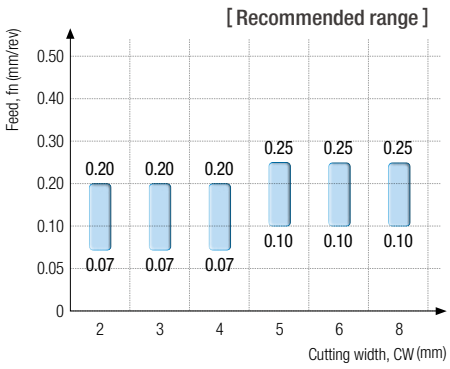
Recommended cutting												
External					Internal				Facing		Special
Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning	
			◎	◎			○	○			

Recommended workpiece				
P	M	K	N	S
◎	○	○		

A : Aluminum grooving



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



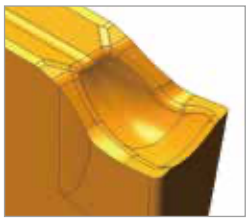
Recommended cutting												
External					Internal				Facing		Special
Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning	
			◎	◎			○	○			

Recommended workpiece				
P	M	K	N	S
			◎	

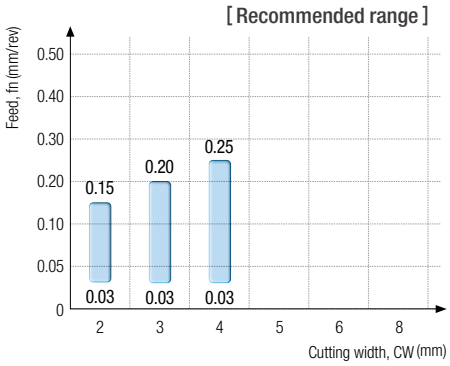
Features of Chip breaker

◎: 1st recommendation ○: 2nd recommendation

LP : Light Parting



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



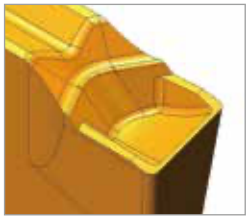
Recommended cutting

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

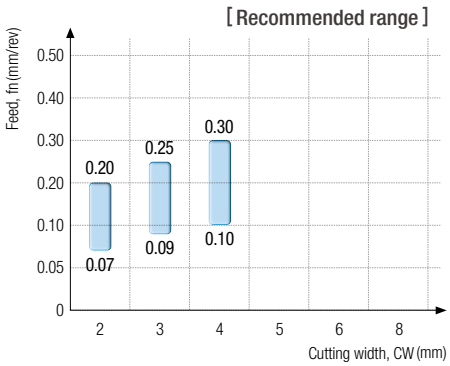
Recommended workpiece

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		Special
Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning	
	◎										

Recommended workpiece

P	M	K	N	S
◎		○		

Recommended insert for use

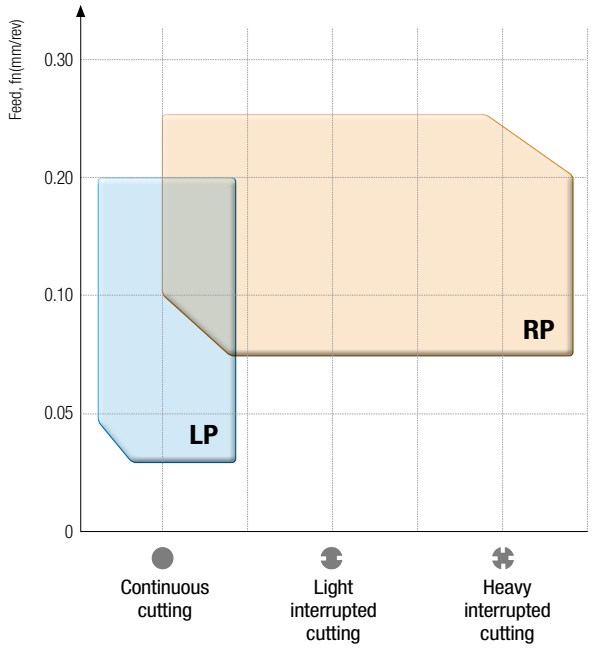
◎: 1st recommendation ○: 2nd recommendation

Type	Chip breaker	Cross section type	workpiece					Empfohlene Bearbeitung												
								Aussenbearbeitung					Innenbearbeitung				Planen		Special
			P	M	K	N	S	Grooving	Parting	Turning	Copying	Relief	Grooving	Turning	Copying	Relief	Grooving	Turning	
KGMN	L		◎	○				◎	○				○				○		
	TL new		○	○			◎	◎	○	○			○	○			◎	○	
	T		◎	○	○			◎	○	◎			○	○			◎	◎	
	R		◎	○	◎			◎	○				○				○		
KGGN	B		◎		○			◎											◎
	A					◎		◎	○	○			○						
	R		◎	○	◎			◎	○				○				○		
KGMI	T		◎	○	○								◎	◎					
KGMR/L	LP		◎	○					◎										
	RP		◎		○				◎										
KRMN	C		◎	○	○						◎	◎			○	○			
KRGN	A					◎					◎	◎			○	○			
	CM new		○	○			◎				◎	◎			○	○			
KRMI	C		◎	○	○										◎	◎			

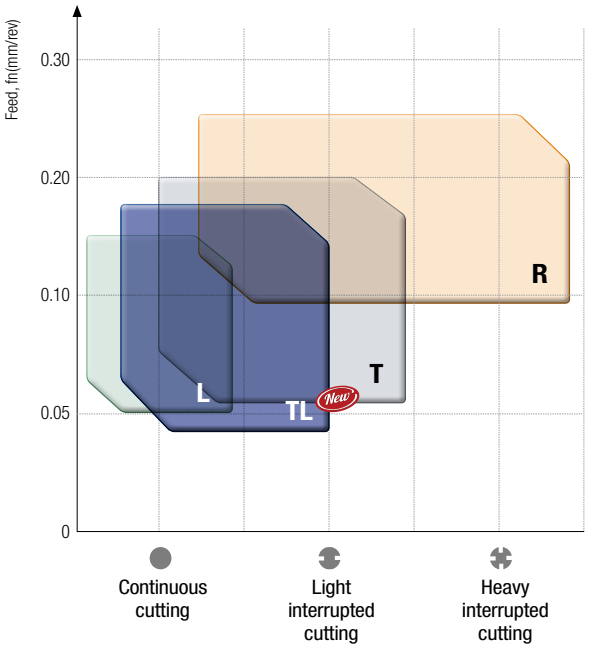
Cutting range

Cutting width (mm) = Based on 3

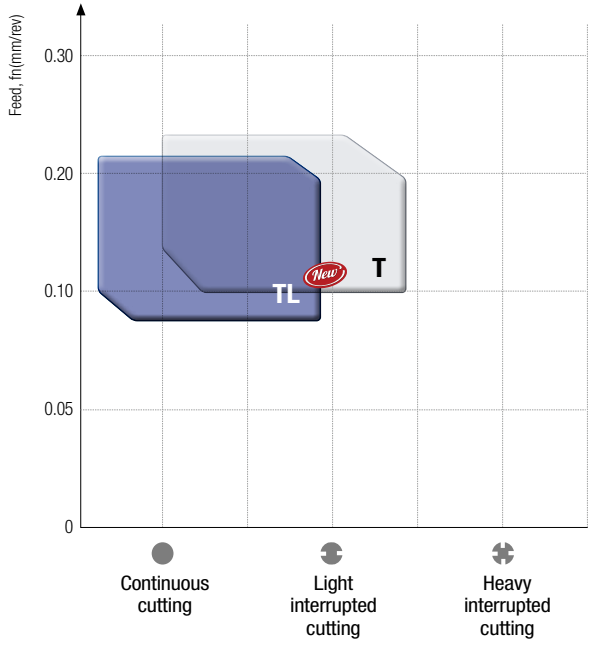
Parting



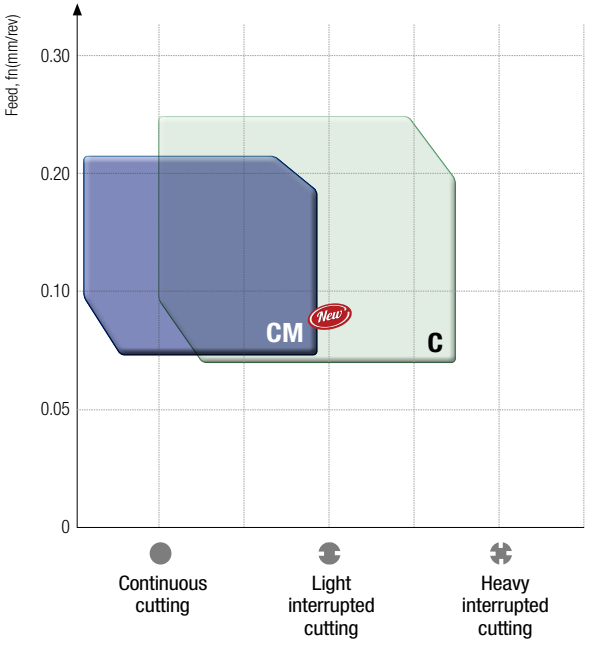
Grooving



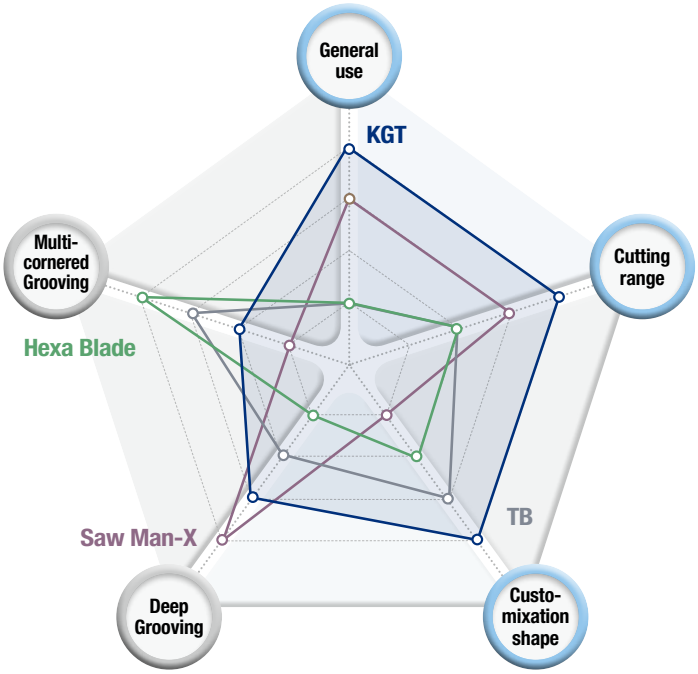
Turning



Profile



Tool selection guide



KGT

- 2 cornered insert
- Various applications
- For general use

Saw Man-X New

- 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 New

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

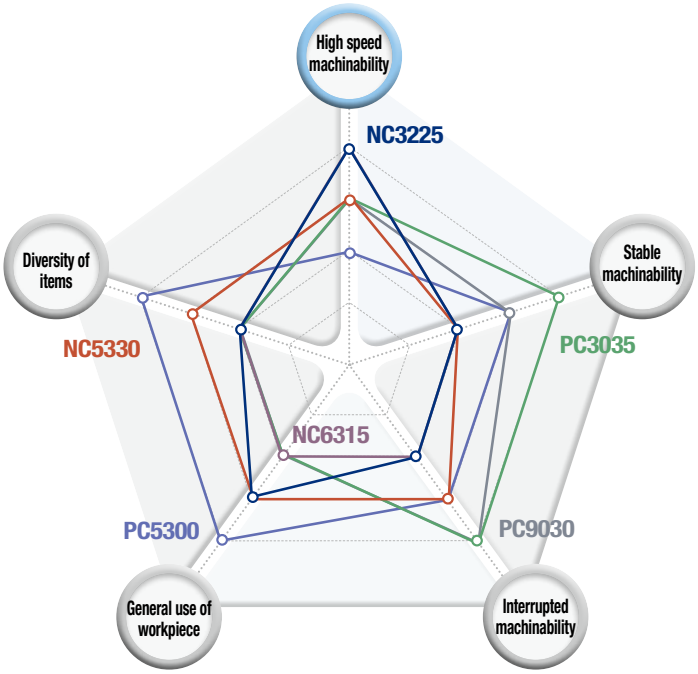
Tool	General use	Cutting range	Customixation shape	Deep Grooving	Multi-cornered Grooving
KGT	★★★★	★★★★	★★★★	★★★	★★
Saw Man-X New	★★★	★★★	★	★★★★	★
TB	★	★★	★★★	★★	★★★
Hexa Blade New	★	★★	★★	★	★★★★

Cutting width and cutting depth by tools

◎: 1st recommendation ○: 2nd recommendation

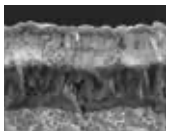
Tool	Cutting width (mm) / Cutting depth maximum (mm)	No. of edge	Machining				Features
			External	Internal	Facing	Parting	
KGT 	1.5 – 8.0 / 28.0	2	◎	○	○	◎	• For various kinds of cutting • For general cutting range
Saw Man-X New 	2.0 – 6.0 / 60.0	1	○			◎	• Various lead angles • Minimizing burr
TB 	1.25 – 6.0 / 6.5	3	◎			○	• Precision type • Optimal for automated machining
Hexa Blade New 	1.78 – 4.0 / 5.0	6	◎			○	• Precision type • High cost efficient cutting

Grade selection guide



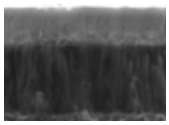
NC3225 P

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



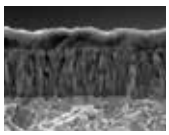
NC6315 K

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



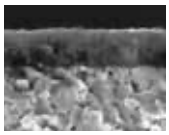
NC5330 P M K

- CVD coating, universal grade
- Good high speed stability



PC3035 P

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

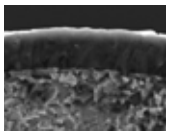


PC5300 P M K S

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

PC9030 M

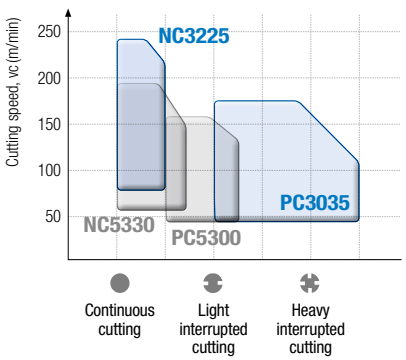
- PVD coating, medium to roughing interrupted cutting for Stainless steel
- Good chipping resistance and welding resistance



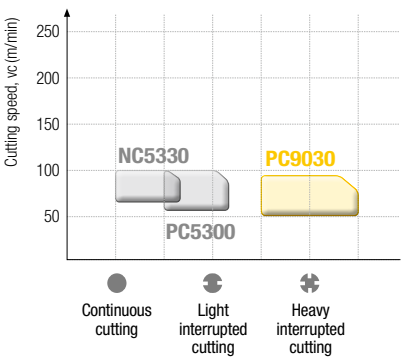
Type	High speed machinability	Stable machinability	Interrupted machinability	General use of workpiece	Diversity of items
NC3225	★★★★	★★	★★	★★★	★★
NC6315	★★★★	★★	★★	★★	★★
NC5330	★★★	★★	★★★	★★★	★★★
PC3035	★★★	★★★★	★★★★	★★	★★
PC9030	★★★	★★★	★★★★	★★	★★
PC5300	★★	★★★	★★★	★★★★	★★★★

Grade application range

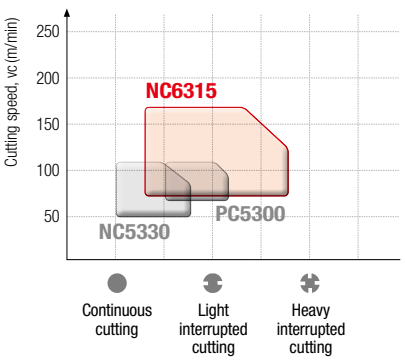
P Steel



M Stainless steel



K Cast iron



Recommended cutting conditions

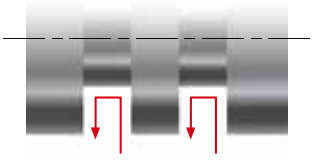
Cutting width (mm) = Based on 3

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

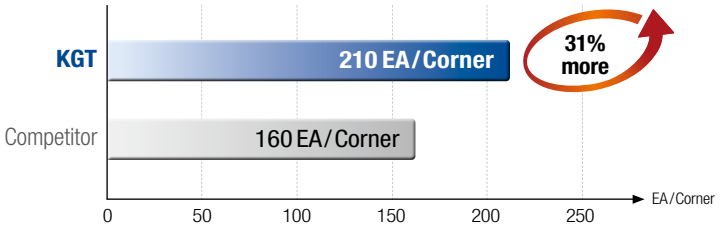
Performance evaluation

Multi-functional cutting

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

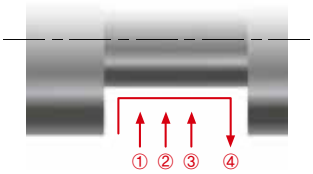


[Repeated Grooving after Turning]

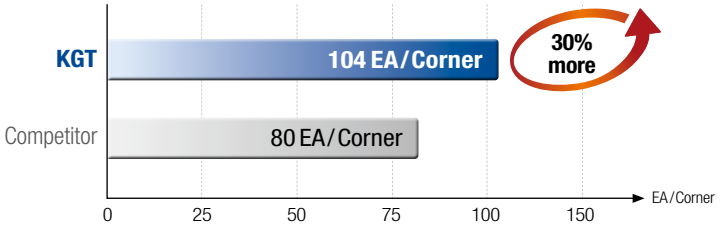


Shaft cutting

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

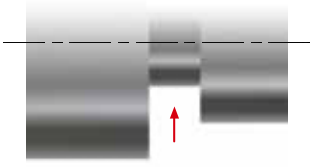


[Turning finishing after Grooving]

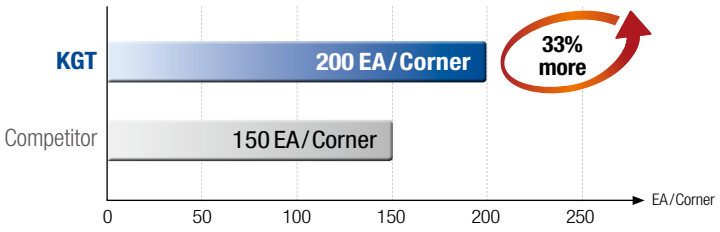


Shaft cutting

Workpiece	Stainless steel (X5CrNi18-9)
Cutting condition	vc (m/min) = 120, fn (mm/rev) = 0.12, ap (mm) = 5.0, wet
Tool	Insert KGMN400-03-R (PC5300) Holder KGEHR2525-4-T15

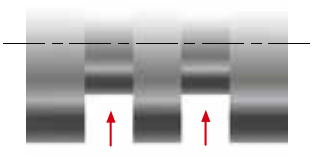


[Shoulder Grooving]

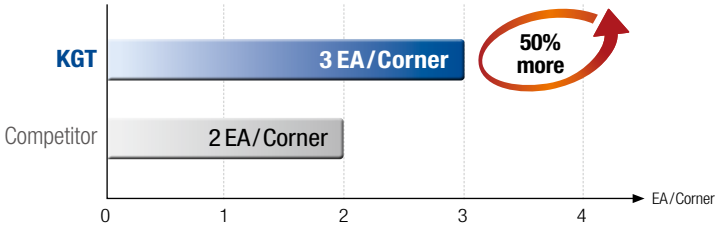


Turbine case cutting

Workpiece	HRSA (Inconel718)
Cutting condition	vc (m/min) = 30, fn (mm/rev) = 0.04, ap (mm) = 8.5, wet
Tool	Insert KGMN500-08-TL (UPC810) Holder KGEHR3232-5-T20

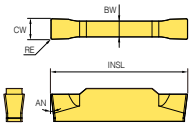
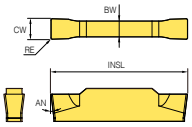
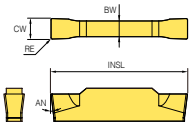
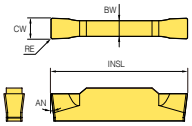
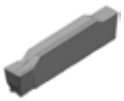
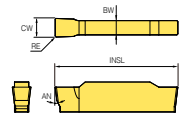
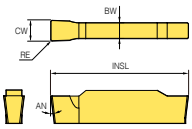
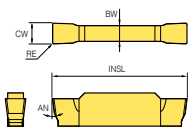


[Grooving]



Insert

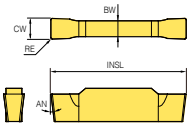
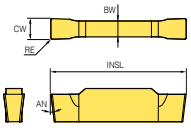
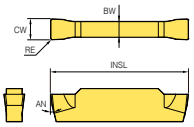
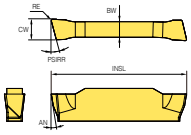
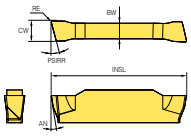
※ AN = 7°

Picture	Designation		Coated								Uncoated		Dimension (mm)						Geometry
			NC3225	NC5330	NC6315	PC3035	PC5300	PC9030	UNC805	UPC810	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	300-02-TL							●	●			3.00	0.20	20.0	2.30	-	-	
		300-04-TL							●	●			3.00	0.40	20.0	2.30	-	-	
		400-04-TL							●	●			4.00	0.40	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	-	-	
		600-08-TL							●	●			6.00	0.80	25.0	5.10	-	-	
	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-03-R					▲						4.00	0.20	19.9	3.30	-	-	
		500S-03-R					▲						5.00	0.20	24.9	4.10	-	-	
		600S-03-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	-	-	

▲: Stock item Europe ●: Stock item Korea ○: Production on demand

Insert

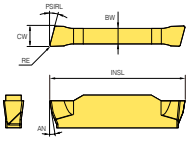
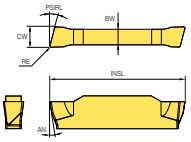
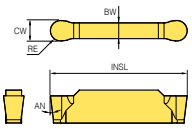
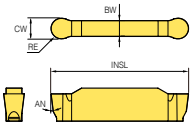
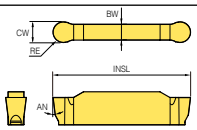
※ AN = 7°

Picture	Designation		Coated								Uncoated		Dimension (mm)						Geometry
			NC3225	NC5330	NC6315	PC3035	PC5300	PC9030	UNC805	UPC810	H01	H05	CW	RE	INSL	BW	PSIRR	PSIRL	
	**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	-	-	
		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	-	

▲: Stock item Europe ●: Stock item Korea ○: Production on demand

Insert

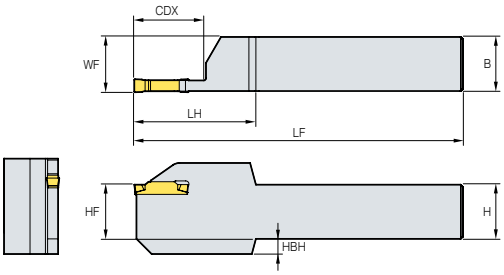
※ AN = 7°

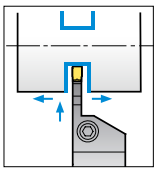
Picture	Designation		Coated								Uncoated		Dimension (mm)						Geometry
			NC3225	NC5330	NC6315	PC3035	PC5300	PC9030	UNC805	UPC810	H01	H05	CW	RE	INSL	BW	PSIRR	PSIRL	
	**KGML**	200-6D-LP		○			▲	○					2.00	0.20	20.0	1.70	-	6.0	
		200-15D-LP		○			▲	○					2.00	0.20	20.0	1.70	-	15.0	
		300-6D-LP		○			▲	○					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	
	**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	-	-	

▲ : Stock item Europe ● : Stock item Korea ○ : Production on demand

KGEHR/L

KGMN KGGN
KRMN KRGN KGMR/L





R type holder

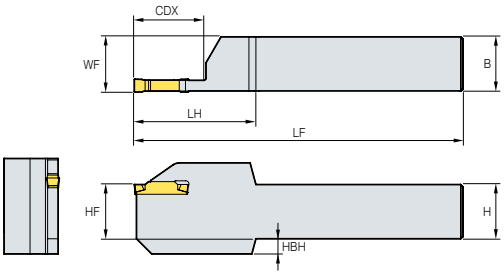
(mm)

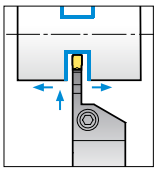
Designation		R	L	H = HF	B	CDX	WF	LH	LF	HBH	Applicable	Screw	Wrench
KGEHR/L	1616-1.5-T14	●	○	16	16	14	16.2	33	100	-	KGMN150-□-□	MHA0512	HW40L
	2020-1.5-T14	●	○	20	20	14	20.2	33	125	-			
	2525-1.5-T14	●	○	25	25	14	25.2	33	150	-			
	1212-2-T08	●	○	12	12	8	12.2	33	100	-	KGMN200-□-□ KGGN200-□-□ KRMN200-C 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	-			

▲: Stock item Europe ●: Stock item Korea ○: Production on demand

KGEHR/L

KGMN KGGN
KRMN KRGN KGMR/L





R type holder

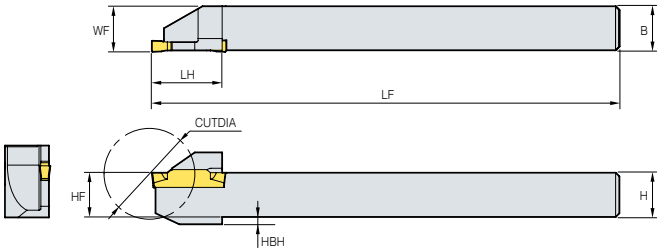
(mm)

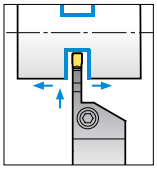
Designation		R	L	H = HF	B	CDX	WF	LH	LF	HBH	Applicable	Screw	Wrench
KGEHR/L	2020-5-T12	●	●	20	20	12	20.5	37	125	-	KGMN500-□-□ KGGN500-□-□ KRMN500-C KRGN500-□ KGMR-□-□	BHA0616	HW50L
	2020-5-T15	●	○	20	20	15	20.55	40	125	-			
	2020-5-T20	▲	▲	20	20	20	20.55	41	125	-			
	2525-5-T12	▲	▲	25	25	12	25.55	37	150	-			
	2525-5-T15	●	○	25	25	15	25.55	40	150	-			
	2525-5-T20	▲	▲	25	25	20	25.55	41.2	150	-			
	3232-5-T15	●	○	32	32	15	32.55	40	170	-			
	2525-5-T32	▲	▲	25	25	32	32.55	46	170	7		BHA0620	
	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-□	BHA0616	HW50L
	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		BHA0620	
	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	-			
	3232-8-T16	●	○	32	32	16	33.05	40	170	-			
	2525-8-T36	▲	○	25	25	36	33.05	58	170	7		BHA0620	
	3232-8-T25	●	○	32	32	25	33.05	46	170	-			
	3232-8-T36	▲	●	32	32	36	33.05	58	170	-			

▲: Stock item Europe ●: Stock item Korea ○: Production on demand

KGEHR/L-D00A (Auto Tool)

KGMN KGGN
KRMN KRGN KGMR/L





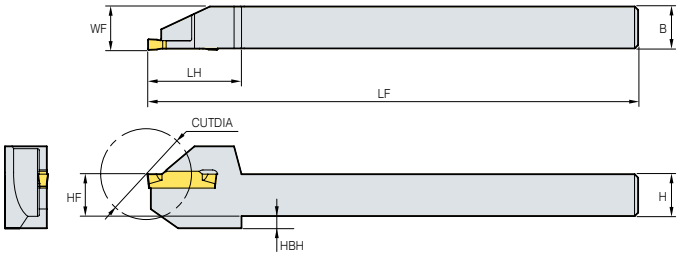
R type holder

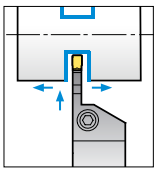
(mm)

Designation		R	L	H = HF	B	CUTDIA	WF	LH	LF	HBH	Applicable	Screw	Wrench
KGEHR/L	1010-2-D20A	▲	●	10	10	20	10.2	19	125	2	KGMN200-□-□ KGGN200-□-□ KRMN200-C KRGN200-□ KGMR/L200-□-□	ETNA0412	TW15L
	1212-2-D25A	▲	▲	12	12	25	12.2	19	125	2			
	1414-2-D25A	●	●	14	14	25	14.2	19	125	-			
	1616-2-D32A	▲	●	16	16	32	16.2	25	125	-			
	1212-3-D25A	▲	▲	12	12	25	12.4	19	125	2	KGMN300-□-□ KGGN300-□-□ KRMN300-C KRGN300-□ KGMR/L300-□-□		
	1616-3-D32A	●	●	16	16	32	16.4	25	125	-			

KGEHR/L-D00B (Auto Tool)

KGMN KGGN
KRMN KRGN KGMR/L





R type holder

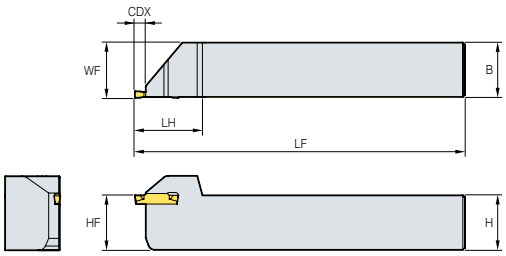
(mm)

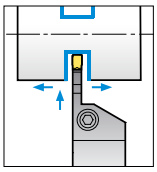
Designation		R	L	H=HF	B	CUTDIA	WF	LH	LF	HBH	Applicable	Screw	Wrench
KGEHR/L	1010-2-D30B	●		10	10	30	10.2	29.6	140	6.6	KGMN200-□-□ KGGN200-□-□ KRMN200-C KRGN200-□ KGMR/L200-□-□	MHA0512	HW40L
	1212-2-D25B	●		12	12	25	12.2	27.1	140	3.5			
	1212-2-D30B	●		12	12	30	12.2	29.6	140	3.5			
	1616-2-D25B	●		16	16	25	16.2	27.1	140	-			
	1616-2-D32B	●		16	16	32	16.2	30.6	140	-			
	1212-3-D25B	●		12	12	25	12.4	27.1	140	3.5	KGMN300-□-□ KGGN300-□-□ KRMN300-C KRGN300-□ KGMR/L300-□-□		
	1212-3-D32B	●		12	12	32	12.4	30.6	140	3.5			
	1616-3-D25B			16	16	25	16.4	26.96	140	-			
	1616-3-D32B	●	●	16	16	32	16.4	27.1	140	-			

▲: Stock item Europe ●: Stock item Korea ○: Production on demand

KGEHR/L-T00

KGMN KGGN
KRMN KRGN





R type holder

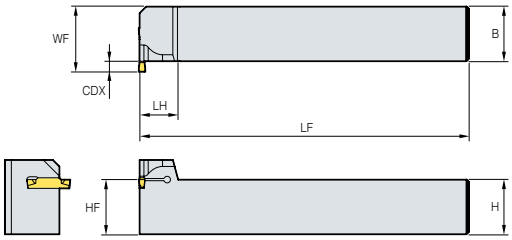
(mm)

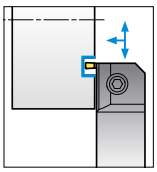
Designation		R	L	H=HF	B	CDX	WF	LH	LF	Applicable	Screw	Wrench
KGEHR/L	1616-3-T00	○	○	16	16	4.8	16.4	31	100	KGMN300-□-□ KGGN300-□-□ KRMN300-C KRGN300-□	MHA0512	HW40L
	2020-3-T00	○	○	20	20	4.8	20.4	31	125			
	2525-3-T00	▲	●	25	25	4.8	25.4	31	150			
	1616-4-T00	●	○	16	16	4.8	16.4	31	100	KGMN400-□-□ KGGN400-□-□ KRMN400-C KRGN400-□	BHA0616	HW50L
	2020-4-T00	▲	○	20	20	4.8	20.4	31	125			
	2525-4-T00	●	●	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 Europe ●: Stock item Korea ○: Production on demand

KGEVR/L-T00

KGMN KGGN
KRMN KRGN





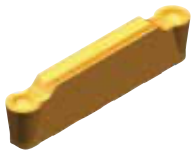
R type holder

(mm)

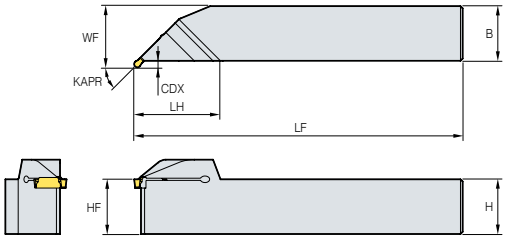
Designation		R	L	H=HF	B	CDX	WF	LH	LF	Applicable	Screw	Wrench
KGEVR/L	2020-1.5 -T00	●	○	20	20	3	24	18	125	KGMN150-□-□	MHA0512	HW40L
	2525-1.5 -T00	●	○	25	25	3	29	18	150			
	3232-1.5 -T00	●	○	32	32	3	36	22	170			
	2020-2 -T00	●	○	20	20	3	24	17.75	125	KGMN200-□-□ KGGN200-□-□ KRMN200-C	MHA0512	HW40L
	2525-2 -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			

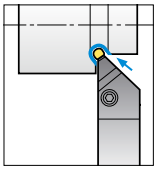
▲: Stock item Europe ●: Stock item Korea ○: Production on demand

KGEUR/L



KRMN KRGN





R type holder

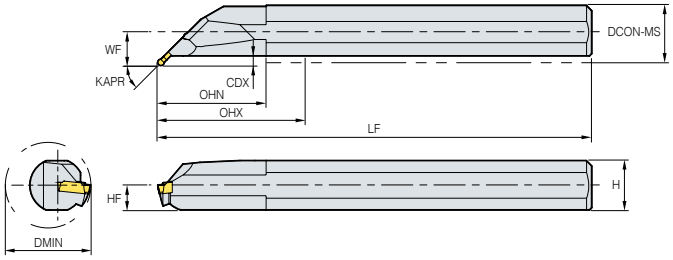
(mm)

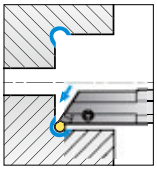
Designation		R	L	H = HF	B	CDX	WF	LH	LF	Applicable	Screw	Wrench
KGEUR/L	1616-3	▲	○	16	16	2.8	19	39.43	100	KRMN300-C KRGN300-□	MHA0512	HW40L
	2020-3	▲	▲	20	20	2.8	23	39.43	125			
	2525-3	▲	○	25	25	2.8	28	39.43	150			
	3232-3	●	○	32	32	2.8	35	46.5	170			
	1616-4	○	○	16	16	2.8	19	42.25	100	KRMN400-C KRGN400-□	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 Europe ●: Stock item Korea ○: Production on demand

KGIUR/L

KRMN KRGN





R type holder

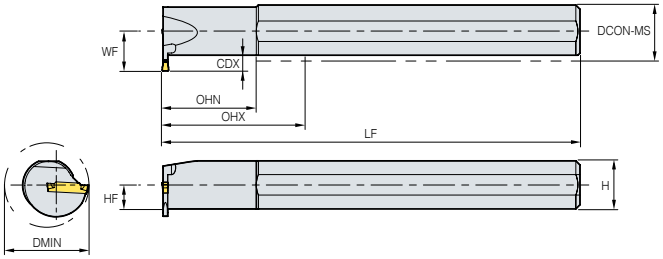
(mm)

Designation		R	L	DMIN	DCON-MS	HF	H	CDX	WF	OHN	LF	Applicable	Screw	Wrench
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 Europe ●: Stock item Korea ○: Production on demand

KGIVR/L

KGMN KGGN KRMN
KRGN KGMI KRMI



(mm)

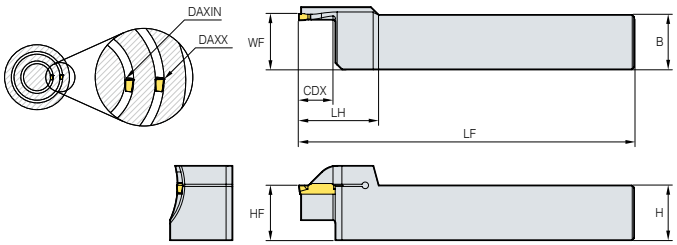
Designation		R	L	DMIN	DCON-MS	HF	H	CDX	WF	OHN	LF	Applicable	Screw	Wrench
KGIVR/L	2016-1.5	●	○	20	16	7.5	15	4	12	35	125	KGMN150-□-□	MHB0410	HW30L
	2520-1.5	●	○	25	20	9.0	18	6	15.5	45	150			
	3225-1.5	●	○	32	25	11.5	23	7	19	45	200		MHA0512	HW40L
	2516-2	●	○	25	16	7.5	15	6.5	14	35	125	KGMI200-□-T KRMI200-C	MHB0410	HW30L
	2520-2	▲	▲	25	20	9.0	18	6.5	15	45	150			
	3225-2	▲	▲	32	25	11.5	23	7	19	45	200		MHA0512	HW40L
	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			
	3225-2.5	●	○	32	25	11.5	23	7	19	45	200		MHA0512	HW40L
	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 KRGN500-□	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 KRGN600-□	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 KRGN800-□-R	BHA0616	HW50L
	4540-8	●	○	45	40	18.5	37	26.5	26.5	70	300		BHA0820	HW50L

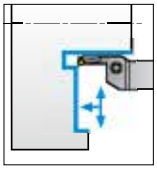
※ In case of using external insert instead of internal insert, please check the available insert for each item.

▲: Stock item Europe ●: Stock item Korea ○: Production on demand

KGFHR/L

KGMN KGGN
KRMN KRGN





R type holder

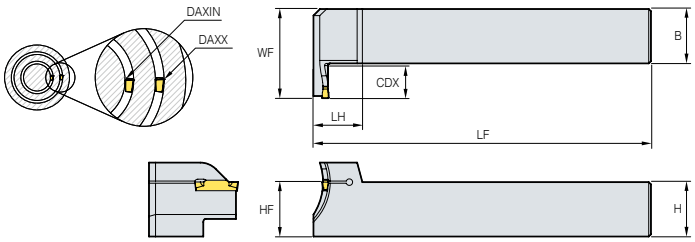
(mm)

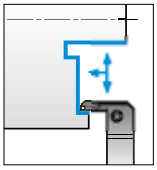
Designation		R	L	H = HF	B	CDX	WF	LH	LF	DAXIN	DAXX	Applicable	Screw	Wrench
KGFHR/L	320-34/50-T10	●		20	20	10	20.5	33	150	34	50	KGMN300-□-□ KGGN300-□-□ KRMN300-C KRGN300-□	MHA0512	HW40L
	320-44/70-T15	●		20	20	15	20.5	36	150	44	70			
	320-64/100-T15	●		20	20	15	20.5	36	150	64	100			
	325-34/50-T10	●	○	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 Europe ●: Stock item Korea ○: Production on demand

KGFVR/L

KGMN KGGN
KRMN KRGN





R type holder

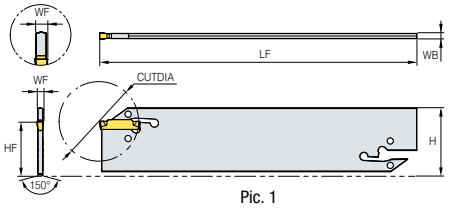
(mm)

Designation		R	L	H = HF	B	CDX	WF	LH	LF	DAXIN	DAXX	Applicable	Screw	Wrench
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			
	525-50/80-T20	●		25	25	20	46	22	150	50	80	KGMN500-□-□ KGGN500-□-□ KRMN500-C KRGN500-□	BHA0616	HW50L
	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	-			
	625-48/85-T20	○		25	25	20	46	22	150	48	85	KGMN600-□-□ KGGN600-□-□ KRMN600-C KRGN600-□	BHA0616	HW50L
	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	-			

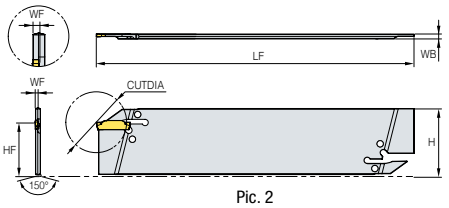
▲: Stock item Europe ●: Stock item Korea ○: Production on demand

KGTB (Blade)

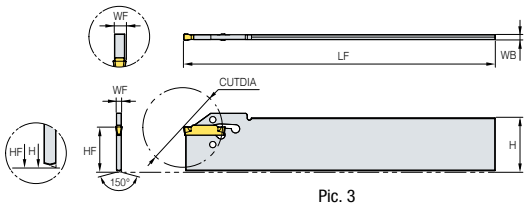
KGMN KGGN



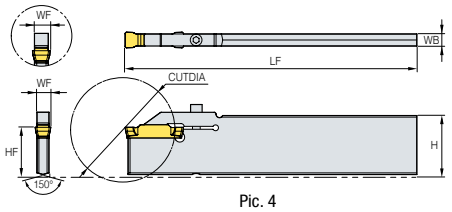
Pic. 1



Pic. 2



Pic. 3



Pic. 4

(mm)

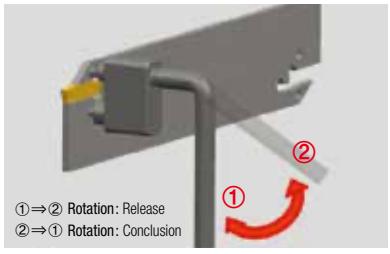
Designation		Lager	HF	H	WB	Cut Ø (2)	Cut Ø(3)	WF	LF	Applicable	Wrench	Pic.
KGTB	1526S	▲	21	26	2.4	-	26	1.3	151	KG□□150-□-□	EW1203 (Bitte extra bestellen)	4
	1532	▲	25	32	2.4	-	26	1.3	151			1
	2026S	▲	21	26	2.4	50	39	1.9	151	KG□□200-□-□ KG□□200S-□-R(4)		4
	2032	▲	25	32	2.4	50	39	1.9	151			1
	3026S	▲	21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

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

How to clamp insert

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

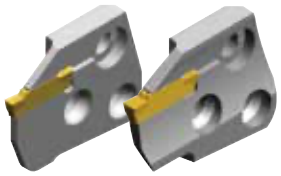
② Clamp the insert on its seat after turning the handle to 45˚~160˚ for loosening the seat.



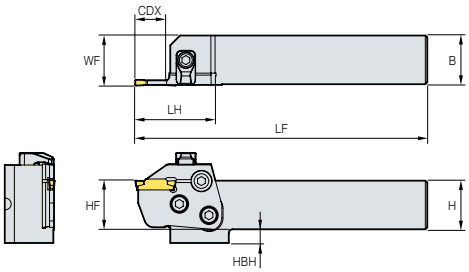
③ Finish clamp by removing the wrench after moving it back to its original state.

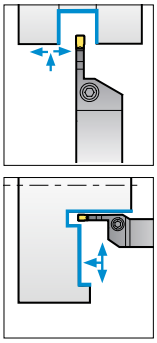
▲: Stock item Europe ●: Stock item Korea ○: Production on demand

MCHR/L (Cartridge)



KCER/L KCFR/L



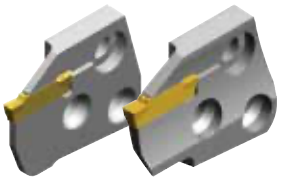


R type holder

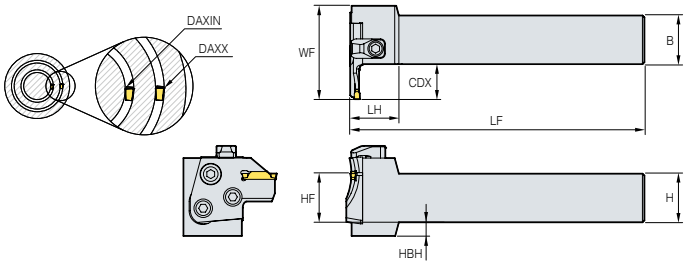
(mm)

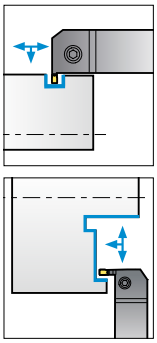
Designation		R	L	H = HF	B	WF	LH	LF	HBH	Applicable cartridge	Clamp	Clamp screw	Hinge screw	Clamp screw	Wrench
MCHR/L	2020	●	●	20	20	20.7	30	133	12	KCER/L KCFR/L	CXH8N	DHA0818F	RHA0613	FHGA0618	HW40L
	2525	▲	▲	25	25	25.7	30	133	7						
	3232	●	●	32	32	32.7	-	153	-						

MCVR/L (Cartridge)



KCER/L KCFR/L



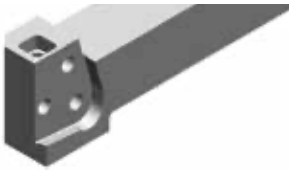
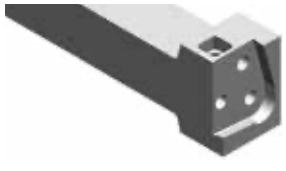


R type holder

(mm)

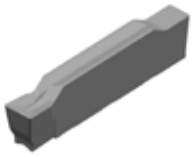
Designation		R	L	H = HF	B	WF	LH	LF	HBH	Applicable cartridge	Clamp	Clamp screw	Hinge screw	Clamp screw	Wrench
MCVR/L	2020	●	●	20	20	38	30	150	12	KCER/L KCFR/L	CXH8N	DHA0818F	RHA0613	FHGA0618	HW40L
	2525	▲	▲	25	25	43	30	150	7						
	3232	●	●	32	32	50	-	170	-						

Cartridge selection guide

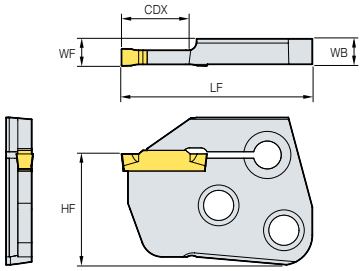
	Horizontal type		Vertical type	
				
	MCHR	MCHL	MCVR	MCVL
Applicable cartridge	External: KCER Facing: KCFL	External: KCEL Facing: KCFR	External: KCEL Facing: KCFR	External: KCER Facing: KCFL

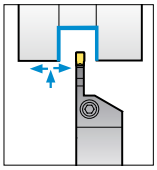
▲: Stock item Europe ●: Stock item Korea ○: Production on demand

KCER/L (Cartridge)



KGMN KGGN
KRMN KRGN KGMR/L





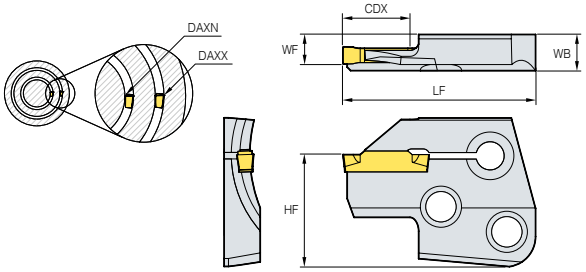
R type holder

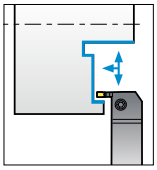
(mm)

Designation		R	L	HF	CDX	WF	WB	LF	CW	Applicable	Applicable holder
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		

KCFR/L (Cartridge)

KGMN KGGN
KRMN KRGN





R type holder

(mm)

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

▲: Stock item Europe ●: Stock item Korea ○: Production on demand

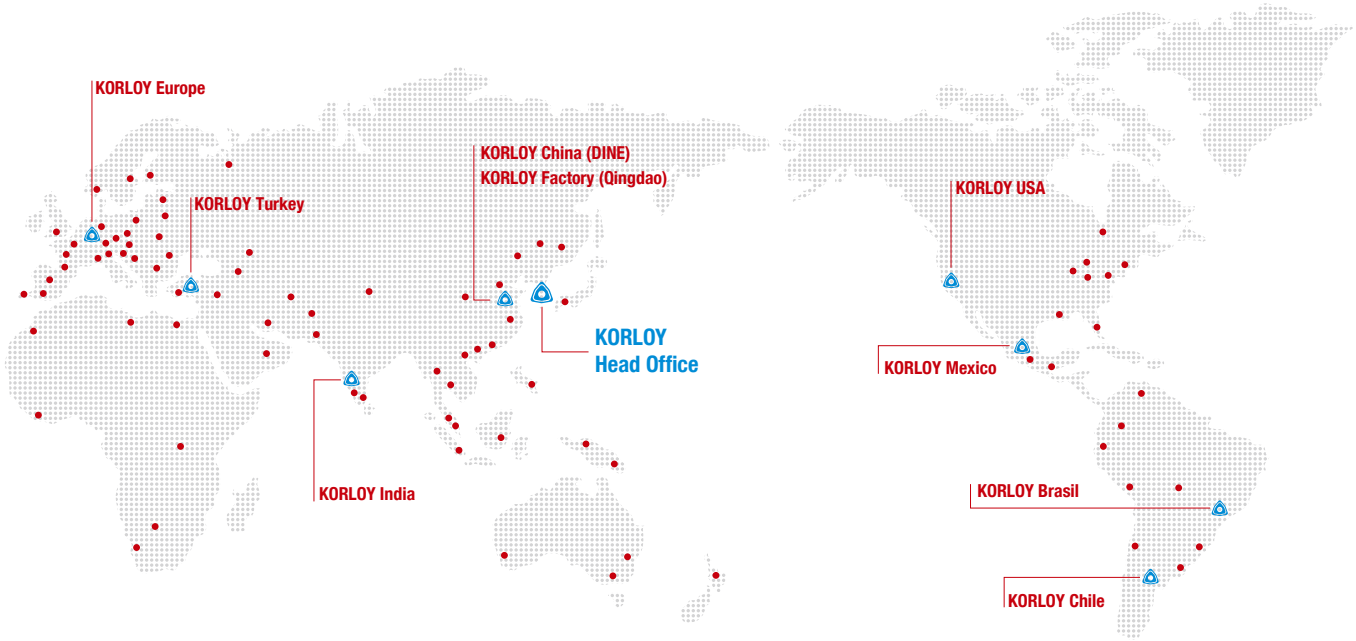
Notes

⚠ For the safe metal cutting

- Use safety supplies such as protective gloves to prevent possible injury while touching the edge of tools.
- Use safety glasess 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 inserts can be pulled out due to centrifugal force while high speed machining.



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