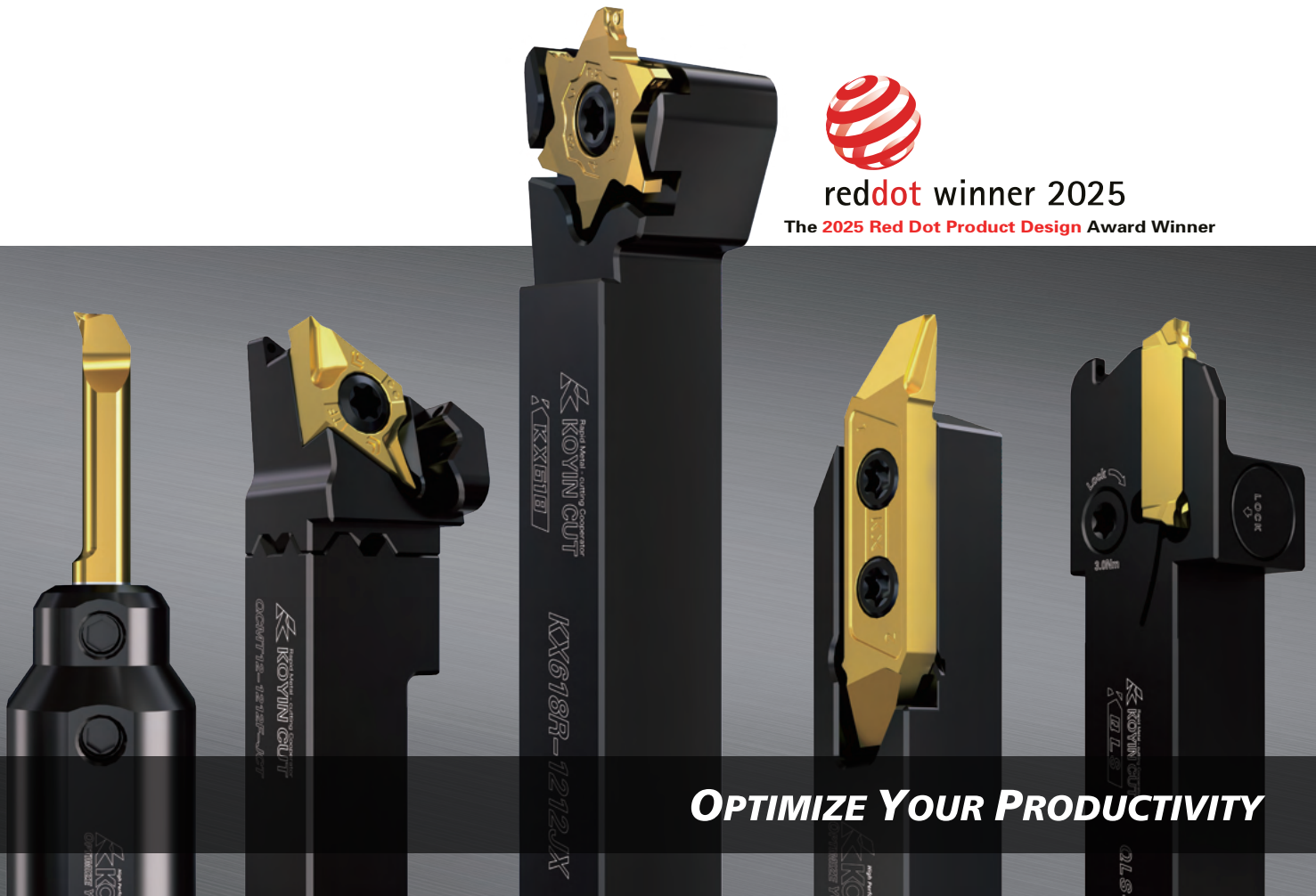




**reddot** winner 2025  
The 2025 Red Dot Product Design Award Winner

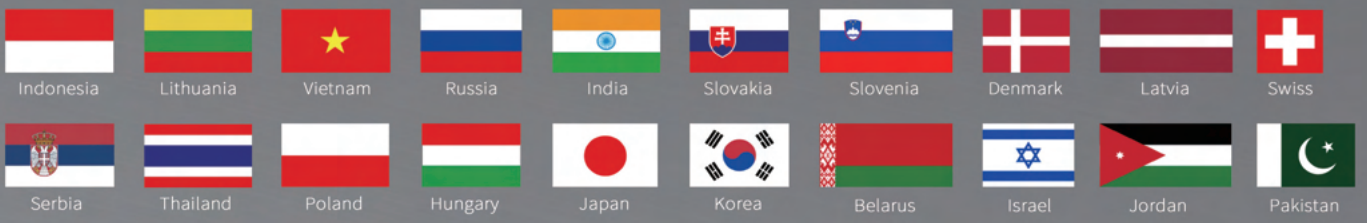


**OPTIMIZE YOUR PRODUCTIVITY**

*Precision Small Parts Cutting Tools  
Comprehensive Product Catalog  
2025*

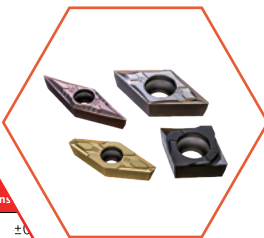
**KOYIN**





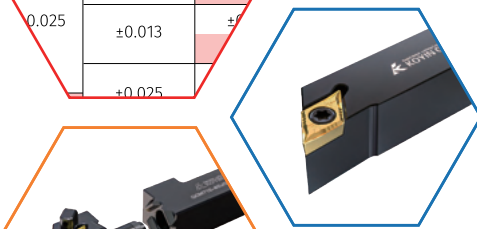
**KEYNCUT**  
PRODUCTIVITY

Tolerance(mm)		
Class	Nose Height (m)	Ins.
0.025	±0.005	±0.005
	±0.013	±0.013
	±0.025	±0.025



Symbols of ISO Inserts for Turning

2-17



ISO Inserts With Precision Lapping

06



ISO Toolholders

18-32

QCMT Quick Change Modular Turning Tools

33-46



KM Economical Quick Change Modular Turning Tools

47-52



KX618/KX628 Stable Clamping Six Heads Inserts

53-75



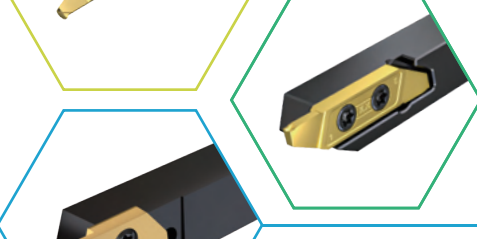
QLS Quick Lock Solid Grooving and Parting Tools

76-83



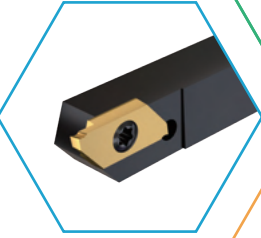
SBT Quick Coordinate Positioning Small Diameter Internal Tools

84-94



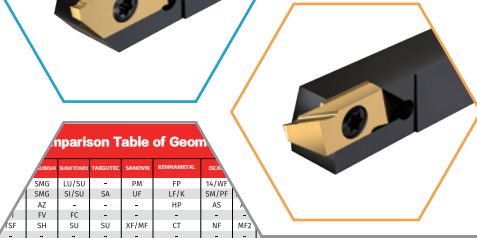
KX116/KX216 Tools Dedicated For Precision Small Parts

95-114



KSI12 Tools For Small Parts

115-121



KSI16 Tools For Small Parts

122-127

Comparison Table of Insert Grade					
Grade	SUMITOMO	TAGSUTEC	SANDVIK	KYBAMAMETAL	ISCAR
SMG	LU/SU	-	PM	FP	W/VF
SMG	SU/SU1	SR	UE	LF/K	SW/FP
AZ	-	-	-	HP	AS
PV	FC	-	-	-	-
SH	SU	SU	XF/M2	CT	NP
-	-	-	-	-	M2

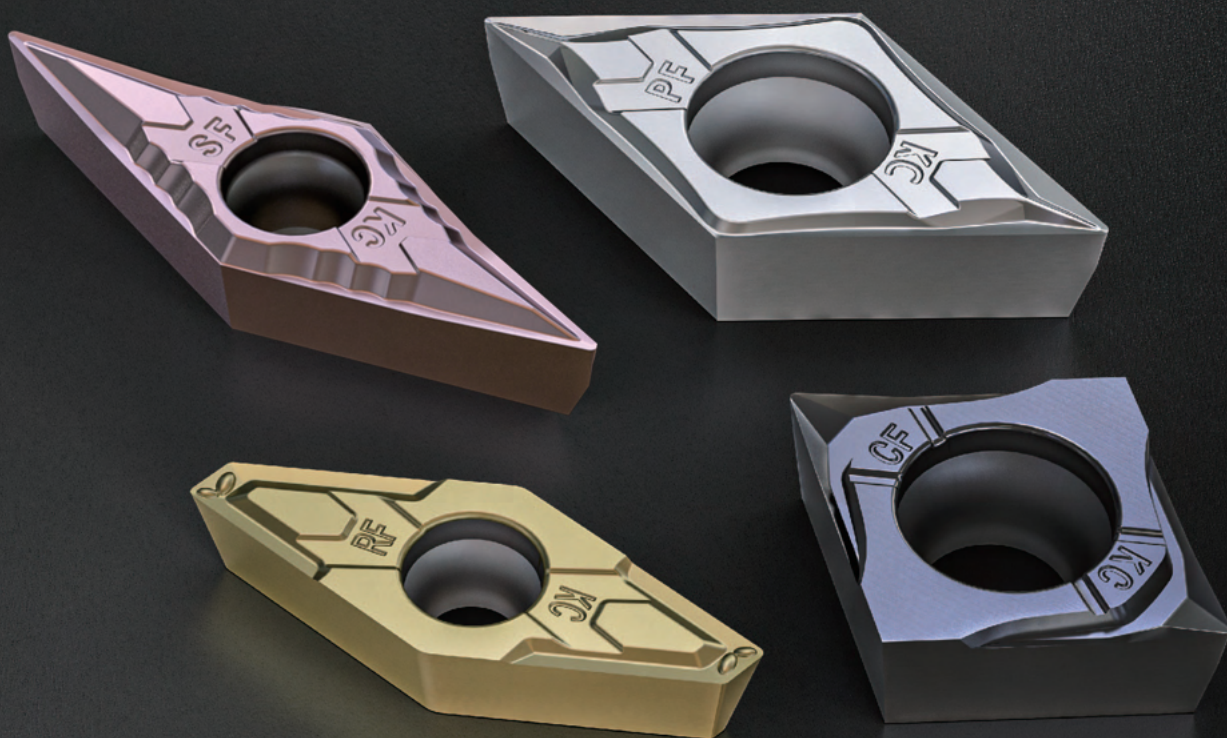
Comparison Table of Insert Grade						
Grade	MITSUBISHI	SUMITOMO	TAGSUTEC	SANDVIK	KYBAMAMETAL	ISCAR
VP10T	ACT1002	T1000	S20	KCP10	IC10	
VP15T	AC15001	T1500	S35	KCP15	IC15	
VP20T	AC2001P	T2000	S35	KCP20	IC20	
VP25T	AC2501P	T2500	S35	KCP25	IC25	

Table of Grades and Geometries

128

# ISO INSERTS

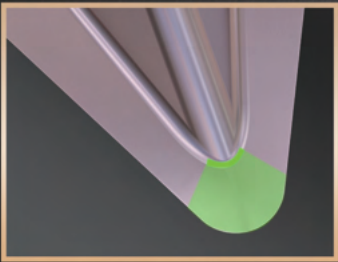
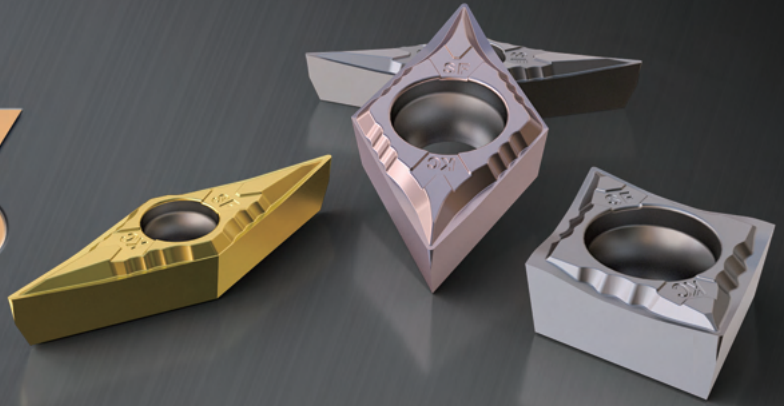
## WITH PRECISION LAPPING



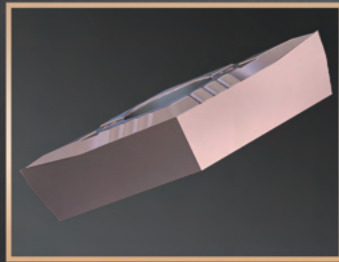
- Full lapping technology, high accuracy guarantee
- Comprehensive groove portfolio for different machining processes
- Innovated coating technology, improve tool life and stability of machining
- Strengthened edge and lapped surface to prevent welding, size accuracy and surface finish of product machined

# SF INSERT

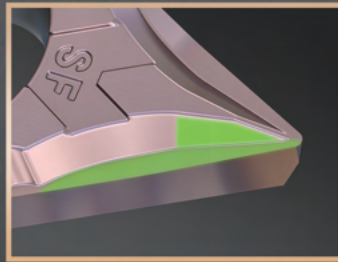
MEDIUM TO SEMI-FINISH MACHINING



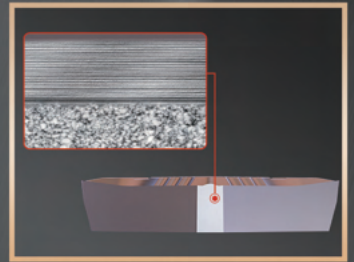
Medium to Semi-finish Machining



Precision Full Lapping Technology



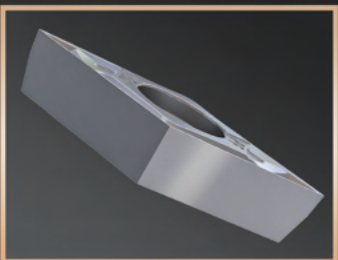
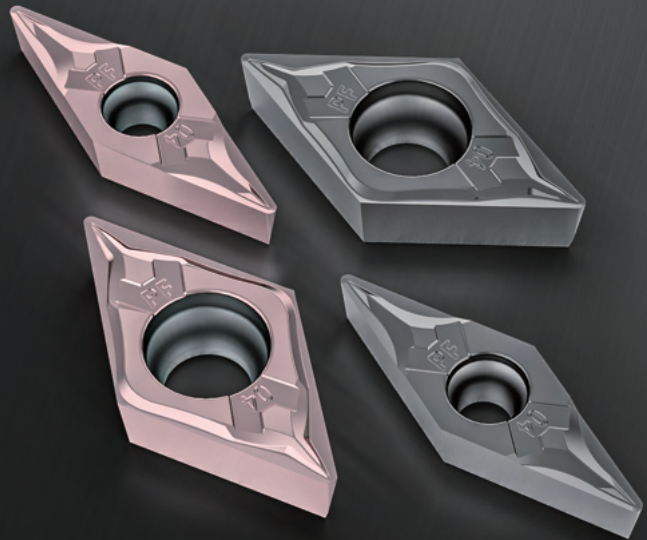
Cutting Depth 0.3-3.5MM



Nanometer Composite Coating

# PF INSERT

3D CHIP BREAKING SLOT THAT ATTACHED  
IMPORTANCE TO CHIP MANAGEMENT



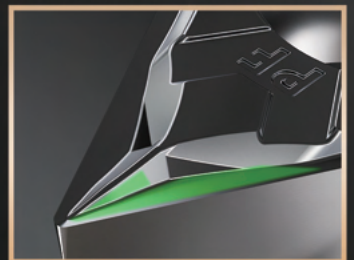
Precision Full Lapping Technology



Excellent Performance of Chip Control



Low Cutting Resistance Geometry



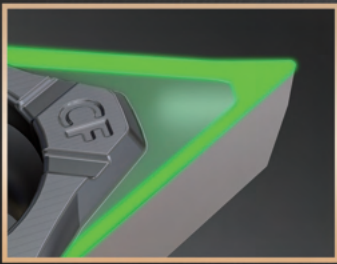
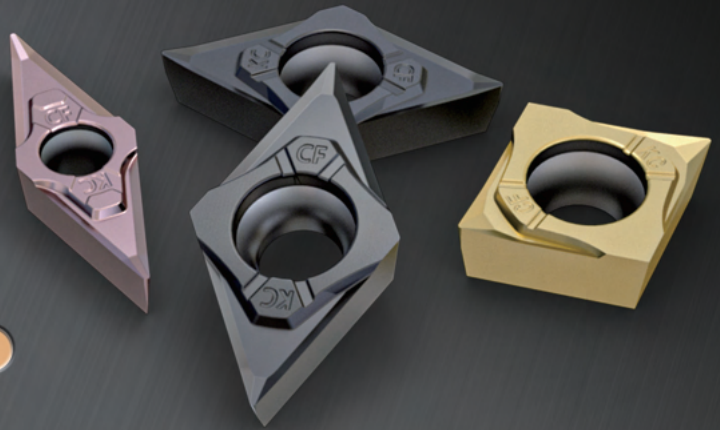
0.2-2.5mm Cutting Depth

# CF INSERT

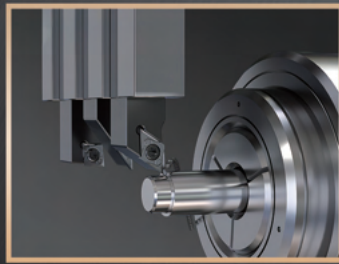
HIGH SHARPNESS

VERSATILE GEOMETRY

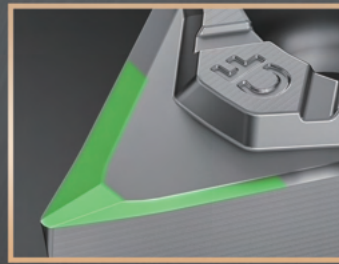
LOW CUTTING RESISTANCE



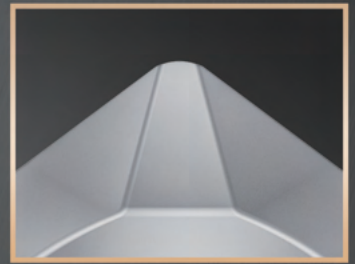
Central Dimple Chipbreaker



Big Rake Angle Design



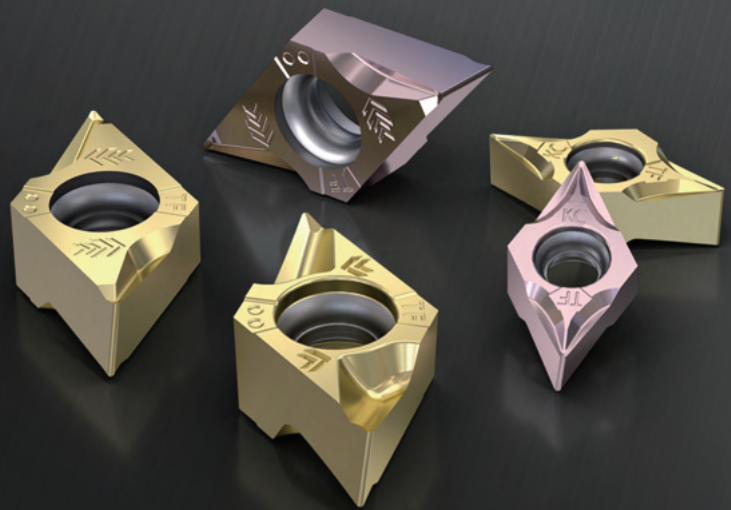
Big Cutting Depth Machining



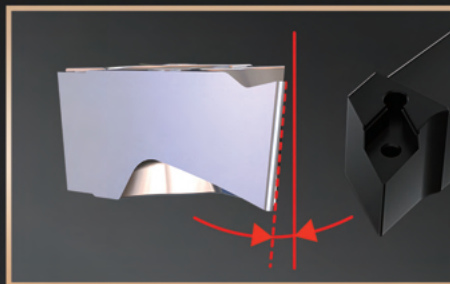
Sharp Edge

# KDC

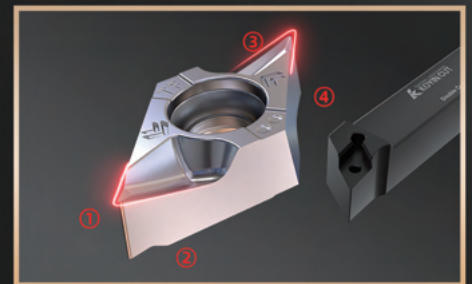
ECONOMICAL EFFICIENT DOUBLE EDGES SERIES



Closed Clamping Design



Negative Insert With Clearance Angle



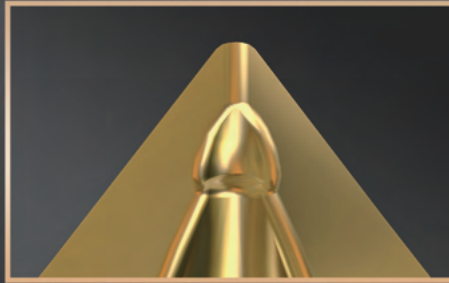
Four Cutting Edges

# AF INSERT

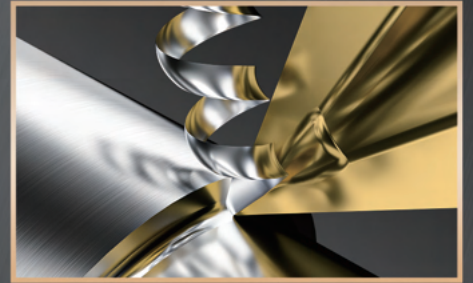
ALL-PURPOSE INSERT SERIES



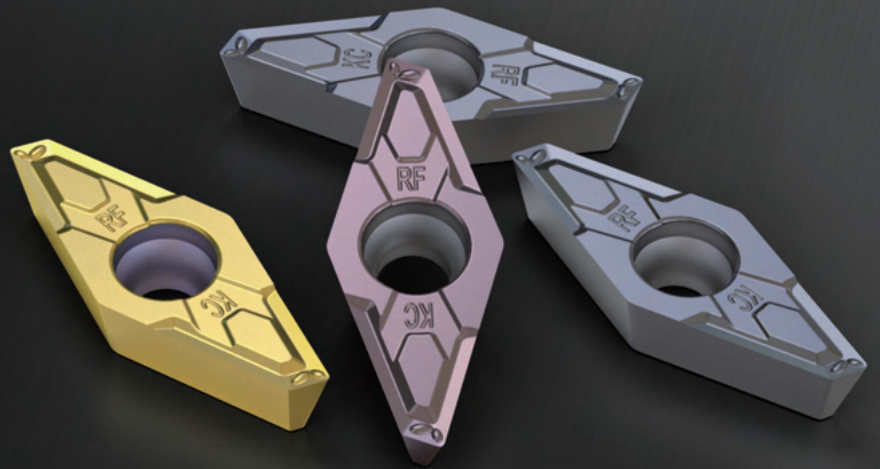
Precision Full Lapping Technology



Sharp Big Rake Angle Design



Excellent Chip Breaking and Chip Evacuation



# RF INSERT

ROUGHING TO FINISHING



### Roughing To Finishing

Excellent chip removal performance and low cutting resistance advantage



### Precision Grinding and Polishing Blade

Even with large cutting depths, excellent precision machined surfaces can be obtained



### Cutting Depth 0.1-4.5mm

Applicable for a wide range machining processes



### Nanocomposite Coating

Lower tip temp and longer tool life

Symbols	Shape	Tip Angle	Figure
H	Regular Hexagon	120°	
O	Regular Octagon	135°	
P	Regular Pentagon	108°	
S	Square	90°	
T	Regular Triangle	60°	
C	Rhombus	80°	
D		55°	
E		75°	
F		50°	
M		86°	
V		35°	
W	Hexagon	80°	
L	Rectangle	90°	
A	Parallelogram	85°	
B		82°	
K		55°	
R		Round	

① Shape

Symbols	Clearance Angle
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	Other

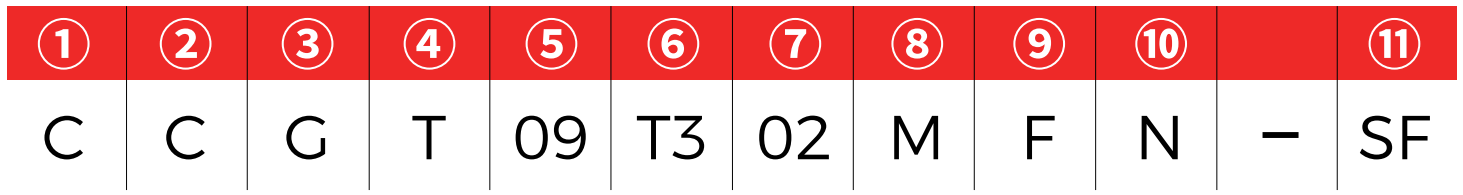
② Clearance Angle

Symbols	Tolerance(mm)			
	Thickness(s)	Nose Height (m)	Inside Diameter	
A	±0.025	±0.005	±0.025	
F		±0.013	±0.013	
C		±0.013	±0.025	
H		±0.013	±0.013	
E	±0.13	±0.025	±0.025	
G		±0.025	±0.025	
J	±0.025	±0.005	±0.005~±0.13	
K		±0.013	±0.013	
L		±0.025	±0.005~±0.13	
M	±0.13	±0.08~±0.18	±0.005~±0.13	
N	±0.025	±0.08~±0.18		
U	±0.13	±0.13~±0.38		±0.08~±0.25
U	±0.13	±0.13~±0.38		±0.08~±0.25

③ Tolerance

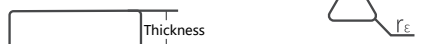
Symbols	Hole	Hole Shape	Chip-Breaking Groove	Shape
N	Without	---	Without	
R			Single Side	
F			Double Side	
A	With	Cylinder Hole	Without	
M			Single Side	
G			Double Side	
W			Without	
T			Single Side	
Q			Double Side	
U	With	*Partial Cylinder Hole One Side 40°-60° Counterbore*	Without	
B			Double Side	
H			Without	
C			Single Side	
J	With	*Partial Cylinder Hole One Side 70°-90° Counterbore*	Without	
X			Double Side	
X	---	---	---	

④ Symbols of Chip Geometry and Hole



⑤ Double Side																
Ⓡ	Ⓢ	Ⓒ		Ⓦ		Ⓣ		ⓓ		Ⓥ		Ⓚ		Inside Diameter (mm)		
		Symbols	Length	Symbols	Length	Symbols	Length	Symbols	Length	Symbols	Length	Symbols	Length			
	03	3.97	03	4.0			06	6.9	04	4.8				3.97		
	04	4.76	04	4.8			08	8.2	05	5.8	08	8.3		4.76		
*05	5	-	-	-	-	-	-	-	-	-	-	-	-	5		
	05	5.56	05	5.6	03	3.8	09	9.6	06	6.8				5.56		
*06	6	-	-	-	-	-	-	-	-	-	-	-	-	6		
	06	6.35	06	6.5	04	4.3	11	11	07	7.8	11	11.2		6.35		
	07	7.94	08	8.1	05	5.4	13	13.8	09	9.7				7.94		
*08	8	-	-	-	-	-	-	-	-	-	-	-	-	8		
09	9.525	09	9.525	09	9.7	06	6.5	16	16.5	11	11.6	16	16.6	16	19.7	9.525
*10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
*12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
	12	12.7	12	12.7	12	12.9	08	8.7	22	22	15	15.5	22	22.1		12.7
	15	15.88	15	15.88	16	16.1	10	10.9	27	27.5	19	19.4				15.875
*16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
	19	19.05	19	19.05	19	19.3	13	13	33	33	23	23.3				19.05
*20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
	22	22.23	22	22.6												22.225
*25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
	25	25.4	25	25.4	25	25.8										25.4
	31	31.75	31	31.75	32	32.2										31.75
*32	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32

Symbols	Thickness	Symbols	Nose Radius r(mm)
X1	1.39	005	0.05
01	1.59	01	0.1
T1	1.98(1.79)	02	0.2
02	2.38	04	0.4
T2	2.78	08	0.8
03	3.18	12	1.2
T3	3.97	16	1.6
04	4.76	20	2
05	5.56	24	2.4
06	6.35	28	2.8
07	7.94	32	3.2
09	9.52		



⑥ Thickness      ⑦ Thickness

Symbols	Illustration	Symbols	Edge Condition	Shape
M	Nose Radius (R/RE) with Negative Tolerance	F	Sharp Edge	
⑧ Tolerance of Nose Radius(R)				
		P	Strengthened Edge	
		E	Circular Edge	
		T	Negative Chamfered	
		S	Composite Passivated Edge	

⑨ Symbols of Main Cutting Edge Shape

Symbols	Direction	Examples	
R	Right	L	R
L	Left		
N	Without		

⑩ Symbols of Insert Direction

Symbols	Illustration
TF(TFX)	Roughing to Finishing
RF	Roughing to Finishing
AF	Medium to Semi-finish Machining
SF	Medium to Semi-finish Machining
PF	Medium to Semi-finish Machining
CF	Medium to Semi-finish Machining
MF	fine machining

⑪ Symbols of Geometries

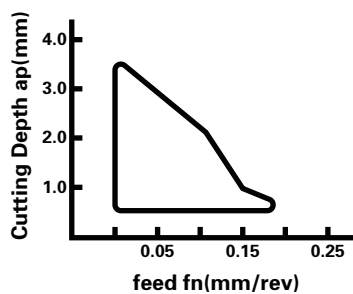
# ISO Insert

- ◆ : Recommended
- ◇ : Suitable
- ◇ : Applicable

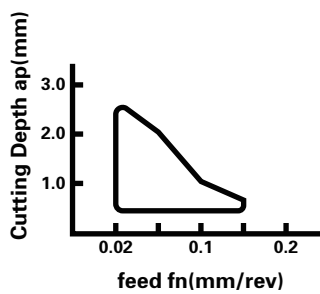
		P	Soft Steel	◆	◇	◆		◆	◆		◆	◆	
			Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆		◆	◆	
		M	Austenitic	◆	◆	◆	◆	◆					
			Martensitic	◇	◆	◆	◆	◆					
		K	Grey Cast Iron			◇							
			Ductile Cast Iron			◇							
		N	Nonferrous							◆			◆
		S	Heat Resisting Alloy		◆	◆	◆	◆					
			Titanium Alloy		◆	◆	◆	◆					
		H	Hardened Materials			◆							

Shape	Type	Carbide with PVD Coating							Coating Cermet	Cermet	Carbide
		KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCC30T	KCC10	KCN10
	CCGT	09T3005MFN-SF									
		09T3005MPN-SF									
		09T301MFN-SF									
		09T301MPN-SF									
		09T302MFN-SF									
		09T302MPN-SF									
		09T304MFN-SF									
		09T304MPN-SF									
	CCGT	09T3005MFN-PF	●	●	●	●	●	●			
		09T3005MPN-PF	●	●	●	●	●	●			
		09T301MFN-PF	●	●	●	●	●	●			
		09T301MPN-PF	●	●	●	●	●	●			
		09T302MFN-PF	●	●	●	●	●	●			
		09T302MPN-PF	●	●	●	●	●	●			
		09T304MFN-PF									
		09T304MPN-PF									
	CCGT	09T3005MFN-CF									
		09T3005MPN-CF									
		09T301MFN-CF									
		09T301MPN-CF									
		09T302MFN-CF									
		09T302MPN-CF									
		09T304MFN-CF									
		09T304MPN-CF									

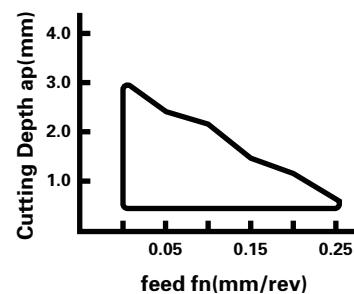
● Standard Stock



SF application of chipbreaker



PF application of chipbreaker

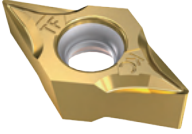



CF application of chipbreaker

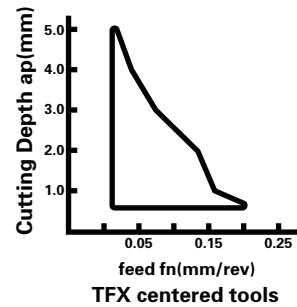
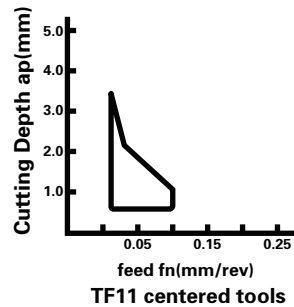
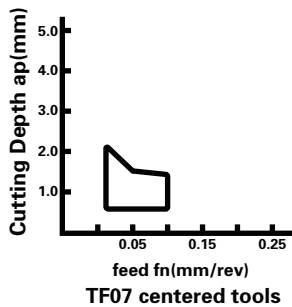
# ISO Insert

- ◆ : Recommended
- ◇ : Suitable
- ◇ : Applicable

P	Soft Steel	◆	◇	◆		◆	◆		◆	◆	
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆		◆	◆	
M	Austenitic	◆	◆	◆	◆	◆					
	Martensitic	◇	◆	◆	◆	◆					
K	Grey Cast Iron			◇							
	Ductile Cast Iron			◇							
N	Nonferrous							◆			◆
S	Heat Resisting Alloy		◆	◆	◆	◆					
	Titanium Alloy		◆	◆	◆	◆					
H	Hardened Materials			◆							

Shape Right Handed Tool	Type	Carbide with PVD Coating							Coating Cermet	Cermet	Carbide
		KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCC30T	KCC10	KCN10
	DXGU	0703005MFR-TF									
		0703005MPR-TF									
		070301MFR-TF	●	●	●	●	●	●			
		070301MPR-TF	●	●	●	●	●	●			
		070302MFR-TF	●	●	●	●	●	●			
		070302MPR-TF	●	●	●	●	●	●			
		070304MFR-TF	●	●	●	●	●	●			
		070304MPR-TF	●	●	●	●	●	●			
	DXGU	1104005MFR-TF									
		1104005MPR-TF									
		110401MFR-TF	●	●	●	●	●	●			
		110401MPR-TF	●	●	●	●	●	●			
		110402MFR-TF	●	●	●	●	●	●			
		110402MPR-TF	●	●	●	●	●	●			
		110404MFR-TF									
		110404MPR-TF									
	DXGU	1104005MFR-TFX									
		1104005MPR-TFX									
		110401MFR-TFX	●	●	●	●	●	●			
		110401MPR-TFX	●	●	●	●	●	●			
		110402MFR-TFX	●	●	●	●	●	●			
		110402MPR-TFX	●	●	●	●	●	●			
		110404MFR-TFX									
		110404MPR-TFX									

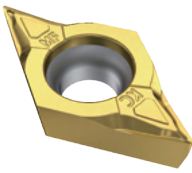
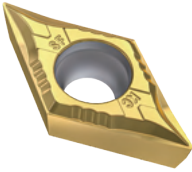
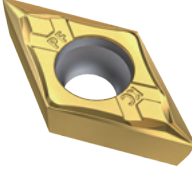
● Standard Stock



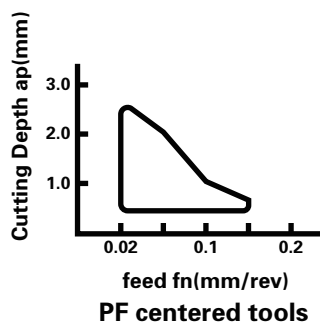
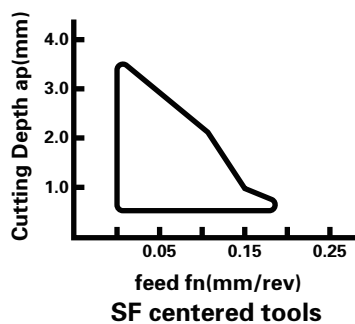
# ISO Insert

- ◆ : Recommended
- ◇ : Suitable
- ◇ : Applicable

		P	Soft Steel	◆	◇	◆		◆	◆		◆	◆	
			Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆		◆	◆	
		M	Austenitic	◆	◆	◆	◆	◆					
			Martensitic	◇	◆	◆	◆	◆					
		K	Grey Cast Iron			◇							
			Ductile Cast Iron			◇							
		N	Nonferrous							◆			◆
		S	Heat Resisting Alloy		◆	◆	◆	◆					
			Titanium Alloy		◆	◆	◆	◆					
		H	Hardened Materials			◆							

Shape	Type	Carbide with PVD Coating							Coating	Cermet	Carbide	
		KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCC30T	KCC10	KCN10	
	DCGT	11T301MFN-MF										
		11T301MPN-MF										
		11T302MFN-MF										
		11T302MPN-MF										
	DCGT	11T3005MFN-SF										
		11T3005MPN-SF										
		11T301MFN-SF	●	●	●	●	●	●				
		11T301MPN-SF	●	●	●	●	●	●				
		11T302MFN-SF	●	●	●	●	●	●				
		11T302MPN-SF	●	●	●	●	●	●				
		11T304MFN-SF										
		11T304MPN-SF										
	DCGT	11T3005MFN-PF	●	●	●	●	●	●				
		11T3005MPN-PF	●	●	●	●	●	●				
		11T301MFN-PF	●	●	●	●	●	●				
		11T301MPN-PF	●	●	●	●	●	●				
		11T301MN-PF								●		
		11T302MFN-PF	●	●	●	●	●	●				
		11T302MPN-PF	●	●	●	●	●	●				
		11T302MN-PF								●		
		11T304MFN-PF	●	●	●	●	●	●				
11T304MPN-PF	●	●	●	●	●	●						

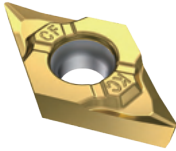

● Standard Stock



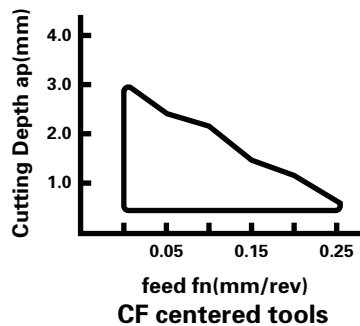
# ISO Insert

- ◆ : Recommended
- ◇ : Suitable
- ◇ : Applicable

P	Soft Steel	◆	◇	◇		◆	◆		◆	◆	
	Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆		◆	◆	
M	Austenitic	◆	◆	◆	◆	◆					
	Martensitic	◇	◆	◆	◆	◆					
K	Grey Cast Iron			◇							
	Ductile Cast Iron			◇							
N	Nonferrous							◆			◆
S	Heat Resisting Alloy		◆	◇	◆	◆					
	Titanium Alloy		◆	◇	◆	◆					
H	Hardened Materials			◇							

Shape	Type	Carbide with PVD Coating							Coating Cermet	Cermet	Carbide
		KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCC30T	KCC10	KCN10
	DCGT	0702005MFN-CF	●	●	●	●	●	●			
		0702005MPN-CF	●	●	●	●	●	●			
		070201MFN-CF	●	●	●	●	●	●			
		070201MPN-CF	●	●	●	●	●	●			
		070202MFN-CF	●	●	●	●	●	●			
		070202MPN-CF	●	●	●	●	●	●			
		070204MFN-CF	●	●	●	●	●	●			
		070204MPN-CF	●	●	●	●	●	●			
	DCGT	11T3005MFN-CF	●	●	●	●	●	●			
		11T3005MPN-CF	●	●	●	●	●	●			
		11T301MFN-CF	●	●	●	●	●	●			
		11T301MPN-CF	●	●	●	●	●	●			
		11T301MN-CF							●		
		11T302MFN-CF	●	●	●	●	●	●			
		11T302MPN-CF	●	●	●	●	●	●			
		11T302MN-CF							●		
		11T304MFN-CF	●	●	●	●	●	●			
11T304MPN-CF	●	●	●	●	●	●					


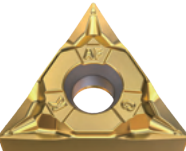
● Standard Stock



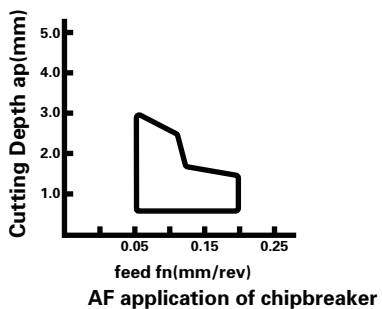
# ISO Insert

- ◆ : Recommended
- ◇ : Suitable
- ◇ : Applicable

P	Soft Steel	◆	◇	◆		◆	◆		◆	◆	
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆		◆	◆	
M	Austenitic	◆	◆	◆	◆	◆					
	Martensitic	◇	◆	◆	◆	◆					
K	Grey Cast Iron			◇							
	Ductile Cast Iron			◇							
N	Nonferrous							◆			◆
S	Heat Resisting Alloy		◆	◆	◆	◆					
	Titanium Alloy		◆	◆	◆	◆					
H	Hardened Materials			◆							

Shape	Type	Carbide with PVD Coating							Coating	Cermet	Carbide
		KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCC30T	KCC10	KCN10
	TNGG	1604005MFN-AF									
		1604005MPN-AF									
		160401MFN-AF	●	●	●	●	●	●			
		160401MPN-AF	●	●	●	●	●	●			
		160402MFN-AF	●	●	●	●	●	●			
		160402MPN-AF	●	●	●	●	●	●			
		160404MFN-AF	●	●	●	●	●	●			
		160404MPN-AF	●	●	●	●	●	●			
	TNGU	1604005MFN-AF									
		1604005MPN-AF									
		160401MFN-AF									
		160401MPN-AF									
		160402MFN-AF									
		160402MPN-AF									
		160404MFN-AF									
		160404MPN-AF									

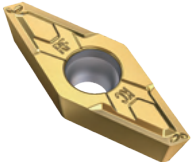
● Standard Stock



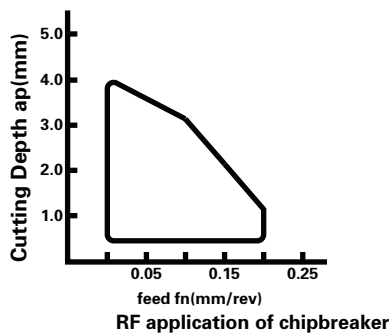
# ISO Insert

- ◆ : Recommended
- ◇ : Suitable
- ◇ : Applicable

P	Soft Steel	◆	◇	◆		◆	◆		◆	◆	
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆		◆	◆	
M	Austenitic	◆	◆	◆	◆	◆					
	Martensitic	◇	◆	◆	◆	◆					
K	Grey Cast Iron			◇							
	Ductile Cast Iron			◇							
N	Nonferrous							◆			◆
S	Heat Resisting Alloy		◆	◆	◆	◆					
	Titanium Alloy		◆	◆	◆	◆					
H	Hardened Materials			◆							

Shape Right Handed Tool	Type	Carbide with PVD Coating						Coating Cermet	Cermet	Carbide	
		KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCC30T	KCC10	KCN10
 VBGT	1103008MFR-RF										
	1103008MPR-RF										
	110301MFR-RF										
	110301MPR-RF										
	110302MFR-RF										
	110302MPR-RF										
VCGT	1103008MFR-RF										
	1103008MPR-RF										
	110301MFR-RF	●	●	●	●	●	●				
	110301MPR-RF	●	●	●	●	●	●				
	110302MFR-RF	●	●	●	●	●	●				
	110302MPR-RF	●	●	●	●	●	●				
VPGT	1103008MFR-RF										
	1103008MPR-RF										
	110301MFR-RF	●	●	●	●	●	●				
	110301MPR-RF	●	●	●	●	●	●				
	110302MFR-RF	●	●	●	●	●	●				
	110302MPR-RF	●	●	●	●	●	●				

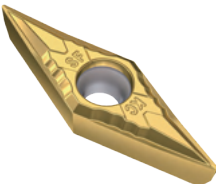
● Standard Stock



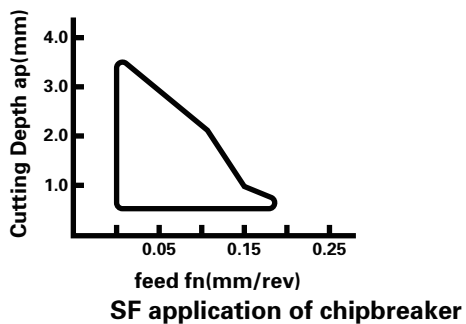
# ISO Insert

- ◆ : Recommended
- ◇ : Suitable
- ◇ : Applicable

P	Soft Steel	◆	◇	◆		◆	◆		◆	◆	
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆		◆	◆	
M	Austenitic	◆	◆	◆	◆	◆					
	Martensitic	◇	◆	◆	◆	◆					
K	Grey Cast Iron			◇							
	Ductile Cast Iron			◇							
N	Nonferrous							◆			◆
S	Heat Resisting Alloy		◆	◆	◆	◆					
	Titanium Alloy		◆	◆	◆	◆					
H	Hardened Materials			◆							

Shape	Type	Carbide with PVD Coating						Coating	Cermet	Carbide	
		KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCC30T	KCC10	KCN10
 VBGT	1103005MFN-SF										
	1103005MPN-SF										
	110301MFN-SF	●	●	●	●	●	●				
	110301MPN-SF	●	●	●	●	●	●				
	110302MFN-SF	●	●	●	●	●	●				
	110302MPN-SF	●	●	●	●	●	●				
	110304MFN-SF	●	●	●	●	●	●				
	110304MPN-SF	●	●	●	●	●	●				
 VCGT	1103005MFN-SF										
	1103005MPN-SF										
	110301MFN-SF	●	●	●	●	●	●				
	110301MPN-SF	●	●	●	●	●	●				
	110302MFN-SF	●	●	●	●	●	●				
	110302MPN-SF	●	●	●	●	●	●				
	110304MFN-SF	●	●	●	●	●	●				
	110304MPN-SF	●	●	●	●	●	●				
 VPGT	1103005MFN-SF										
	1103005MPN-SF										
	110301MFN-SF	●	●	●	●	●	●				
	110301MPN-SF	●	●	●	●	●	●				
	110302MFN-SF	●	●	●	●	●	●				
	110302MPN-SF	●	●	●	●	●	●				
	110304MFN-SF										
	110304MPN-SF										

● Standard Stock



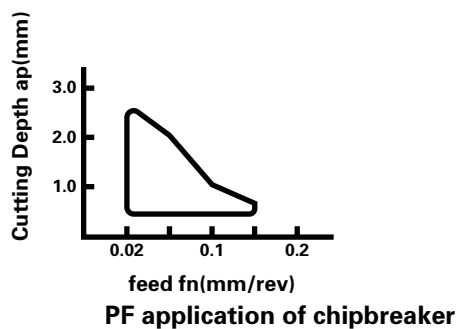
# ISO Insert

- ◆ : Recommended
- ◇ : Suitable
- ◇ : Applicable

P	Soft Steel	◆	◇	◇		◆	◆		◆	◆	
	Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆		◆	◆	
M	Austenitic	◆	◆	◆	◆	◆					
	Martensitic	◇	◆	◆	◆	◆					
K	Grey Cast Iron			◇							
	Ductile Cast Iron			◇							
N	Nonferrous							◆			◆
S	Heat Resisting Alloy		◆	◇	◆	◆					
	Titanium Alloy		◆	◇	◆	◆					
H	Hardened Materials			◇							

Shape	Type	Carbide with PVD Coating							Coating Cermet	Cermet	Carbide
		KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCC30T	KCC10	KCN10
VBGT	1103005MFN-PF										
	1103005MPN-PF										
	110301MFN-PF	●	●	●	●	●	●				
	110301MPN-PF	●	●	●	●	●	●				
	110301MN-PF							●			
	110302MFN-PF	●	●	●	●	●	●				
	110302MPN-PF	●	●	●	●	●	●				
	110302MN-PF							●			
	110304MFN-PF	●	●	●	●	●	●				
	110304MPN-PF	●	●	●	●	●	●				
VCGT	1103005MFN-PF										
	1103005MPN-PF										
	110301MFN-PF	●	●	●	●	●	●				
	110301MPN-PF	●	●	●	●	●	●				
	110301MN-PF							●			
	110302MFN-PF	●	●	●	●	●	●				
	110302MPN-PF	●	●	●	●	●	●				
	110302MN-PF							●			
	110304MFN-PF	●	●	●	●	●	●				
	110304MPN-PF	●	●	●	●	●	●				
VPGT	1103005MFN-PF										
	1103005MPN-PF										
	110301MFN-PF	●	●	●	●	●	●				
	110301MPN-PF	●	●	●	●	●	●				
	110302MFN-PF	●	●	●	●	●	●				
	110302MPN-PF	●	●	●	●	●	●				
	110304MFN-PF	●	●	●	●	●	●				
	110304MPN-PF	●	●	●	●	●	●				

● Standard Stock

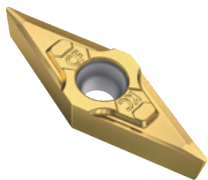


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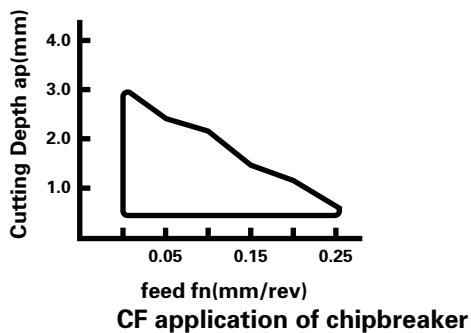
- ◆ : Recommended
- ◇ : Suitable
- ◇ : Applicable

P	Soft Steel	◆	◇	◆		◆	◆		◆	◆	
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆		◆	◆	
M	Austenitic	◆	◆	◆	◆	◆					
	Martensitic	◇	◆	◆	◆	◆					
K	Grey Cast Iron			◇							
	Ductile Cast Iron			◇							
N	Nonferrous							◆			◆
S	Heat Resisting Alloy		◆	◆	◆	◆					
	Titanium Alloy		◆	◆	◆	◆					
H	Hardened Materials			◆							

Shape	Type	Carbide with PVD Coating						Coating Cermet	Cermet	Carbide	
		KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCC30T	KCC10	KCN10
VBGT	1103005MFN-CF										
	1103005MPN-CF										
	110301MFN-CF										
	110301MPN-CF										
	110302MFN-CF										
	110302MPN-CF										
	110304MFN-CF										
	110304MPN-CF										
VCGT	1103005MFN-CF										
	1103005MPN-CF										
	110301MFN-CF	●	●	●	●	●	●				
	110301MPN-CF	●	●	●	●	●	●				
	110302MFN-CF	●	●	●	●	●	●				
	110302MPN-CF	●	●	●	●	●	●				
	110304MFN-CF	●	●	●	●	●	●				
	110304MPN-CF	●	●	●	●	●	●				
VPGT	1103005MFN-CF										
	1103005MPN-CF										
	110301MFN-CF	●	●	●	●	●	●				
	110301MPN-CF	●	●	●	●	●	●				
	110302MFN-CF	●	●	●	●	●	●				
	110302MPN-CF	●	●	●	●	●	●				
	110304MFN-CF										
	110304MPN-CF										



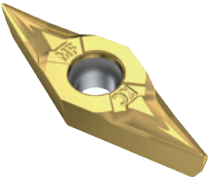
● Standard Stock



# ISO Insert

- ◆ : Recommended
- ◇ : Suitable
- ◇ : Applicable

P	Soft Steel	◆	◇	◆		◆	◆		◆	◆	
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆		◆	◆	
M	Austenitic	◆	◆	◆	◆	◆					
	Martensitic	◇	◆	◆	◆	◆					
K	Grey Cast Iron			◇							
	Ductile Cast Iron			◇							
N	Nonferrous							◆			◆
S	Heat Resisting Alloy		◆	◆	◆	◆					
	Titanium Alloy		◆	◆	◆	◆					
H	Hardened Materials			◆							

Shape	Type	Carbide with PVD Coating							Coating Cermet	Cermet	Carbide
		KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCC30T	KCC10	KCN10
 VBGT	110301MFN-MF										
	110301MPN-MF										
	110302MFN-MF										
	110302MPN-MF										
VCGT	110301MFN-MF										
	110301MPN-MF										
	110302MFN-MF										
	110302MPN-MF										
VPGT	110301MFN-MF										
	110301MPN-MF										
	110302MFN-MF										
	110302MPN-MF										

● Standard Stock

## Insert Grades

Grades	Symbols of Grades	Machinable Materials
P-Type First Choice	KPM30N	Soft iron, Low Carbon Steel, Alloy Steel, Stainless Steel, Copper
	KCP10P	Soft iron, Low Carbon Steel
	KCC30T	Soft iron, Low Carbon Steel
	KCC10	Soft iron, Low Carbon Steel
M-Type First Choice	KXM15S	Austenitic, Martensitic, Titanium Alloy, Heat Resisting Alloy, Carbide
M-Type First Choice	KMS15C	Martensitic, Carbide, Titanium Alloy, Heat Resisting Alloy
Versatile	KHS10M	Soft iron, Low Carbon Steel, Alloy Steel, Stainless Steel, Titanium Alloy, Heat Resisting Alloy, Hardened Materials, Cast Iron
S-Type First Choice	KMS20	Titanium Alloy, Heat Resisting Alloy, Austenitic, Martensitic
N-Type First Choice	KCN10D(DLC Coated)	Copper, Aluminum, Magnesium, Zinc
	KCN10(without Coating)	Copper, Aluminum, Magnesium, Zinc

### Recommend Application Parameter

	Material	VC (m/min)								
		Symbols of Grades								
		KPM30N	KCP10P	KCC30T (Cermet Coating)	KCC10 (Cermet Coating)	KXM15S	KMS15C	KHS10M	KMS20	KCN10D (DLC Coating)
P Steel	Soft Steel		60-180	240-340	180-300		60-180	60-100		
	Carbon Steel		60-180	240-340	180-300		60-180	60-100		
	Alloy Steel	60-180				60-180	60-180	60-100		
M Stainless Steel	Austenitic	60-150				60-180	60-150	60-130	60-130	
	Martensitic	60-120				60-180	60-150	60-130	60-130	
K Cast Iron	Grey Cast Iron							80-200		
	Ductile Cast Iron							80-200		
S Heat Resisting Alloy	Titanium Alloy					30-70	30-60	20-40	30-90	
	Heat Resisting Alloy					30-70	30-60	20-40	30-90	
H High-hardness Steel	High-hardness steel							30-80		
N Nonferrous Metal	Copper								240-450	150-300
	Aluminum								240-450	150-300
	Magnesium								240-450	150-300

# Symbols of External Toolholders

A: Back Fastening C: 80°Rhombus

M: Clamp Locking D: 55°Rhombus

D: Double Locking R: Round

M: Strengthened Clamping Method S: Square

P: Latch Locking T: Triangle

S: Screw Clamping V: 35°Rhombus

W: Wedge Clamping W: Hexagon

R: Right Handed Holders

L: Left Handed Holders

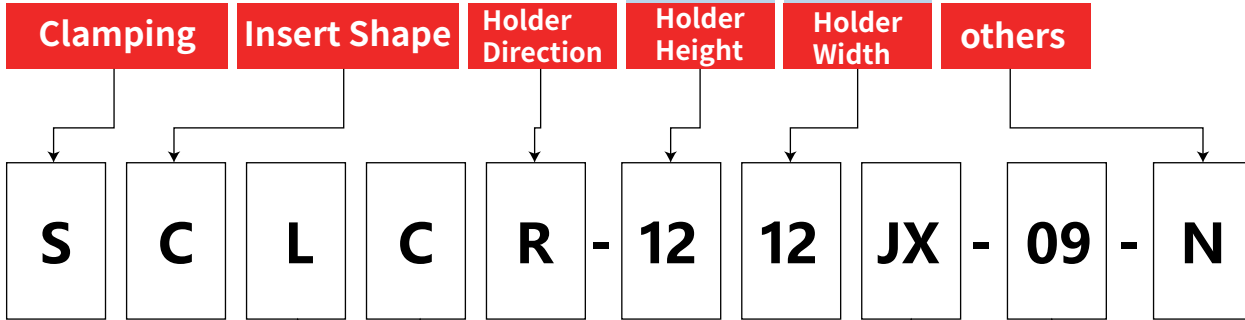
N: Versatile Holders

Holder Height (mm)

Holder Width (mm)

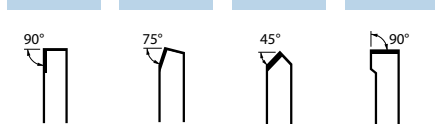
N: Centered Tools

N/A: offset Tools

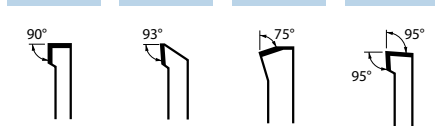


## Entering Angle Clearance Angle Tool Length Edge Length

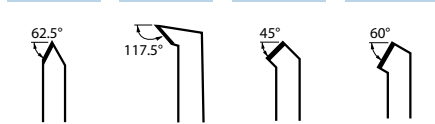
### A B D F



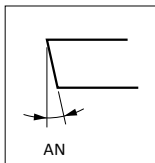
### G J K L



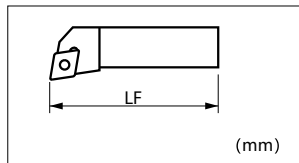
### N P S T



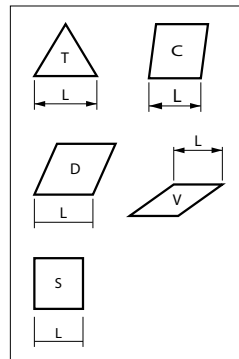
### V



B: 5°Positive  
C: 7°Positive  
N: 0°Negative  
P: 11°Positive



F: 80 M: 150  
H: 100 P: 170  
J: 110 Q: 180  
K: 125 X: Special



# Symbols of ISO Special Toolholders

Y: Y-axis Tools

A: Back Fastening

C: 80°Rhombus

C: Clamp Locking

D: 55°Rhombus

KDC: KDC Tools

D: Double Locking

R: Round

M: Strengthened Clamping Method

S: Square

S: Shift Tools

P: Latch Locking

T: Triangle

R: Right Handed Holders

S: Screw Clamping

V: 35°Rhombus

L: Left Handed Holders

ST: Strengthened Tools

W: Wedge Clamping

W: Hexagon

N: Versatile Holders

Holder Height (mm)

Holder Width (mm)

User Defined Symbols

**Insert Type**

**Clamping**

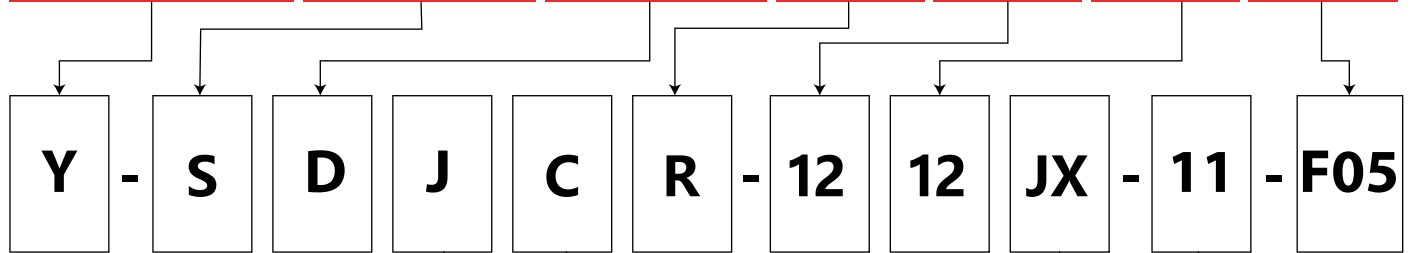
**Insert Shape**

**Holder Direction**

**Holder Height**

**Holder Width**

**other**

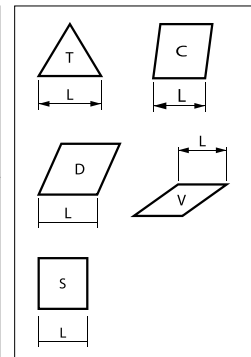
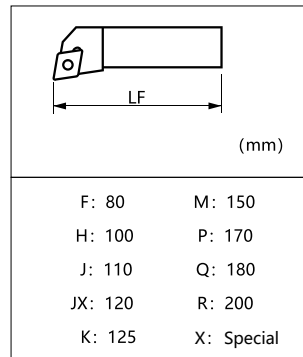
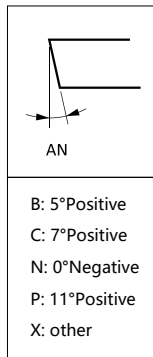
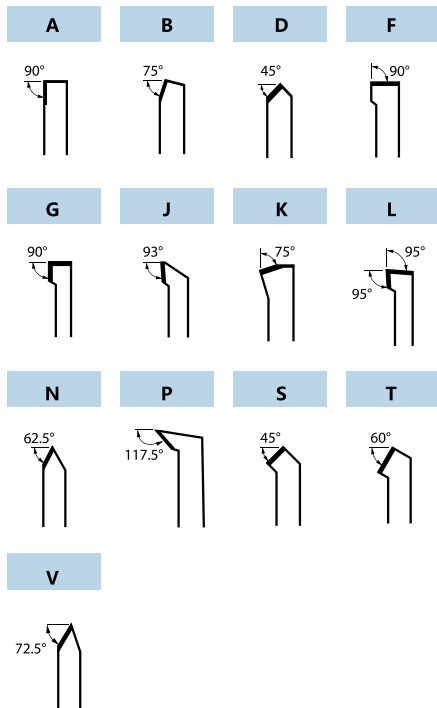


**Entering Angle**

**Clearance Angle**

**Tool Length**

**Edge Length**



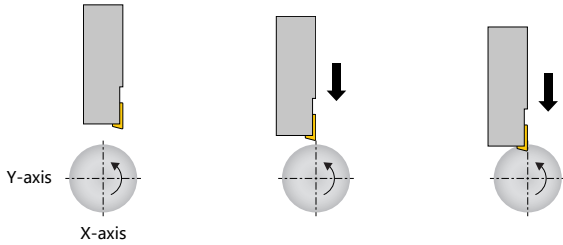
# Y-axis Toolholders

## Cautions When Using Y-axis Tools

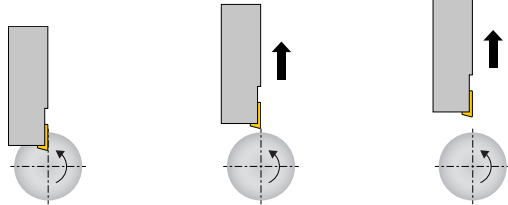
### Machining Procedures

#### Conventional X-axis Machining

- ① Tool selection    ② Move to start position    ③ Commence od turning

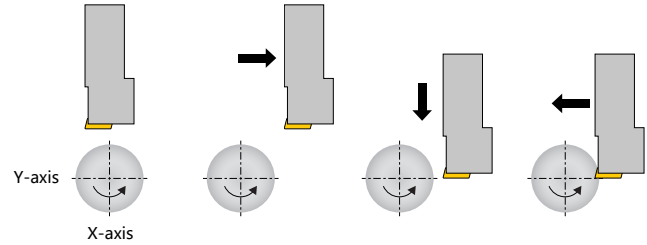


- ④ OD turning    ⑤ Return to start position    ⑥ Retract

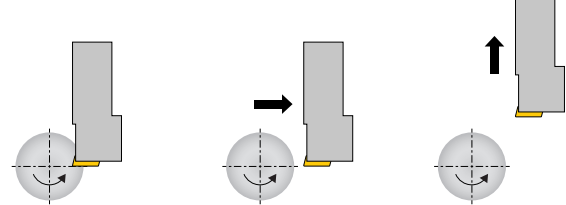


#### Y-axis Machining

- ① Tool selection    ② Moves along with the Y-axis    ③ Move to Start position    ④ Commence od turning



- ⑤ OD turning    ⑥ Return to start position    ⑦ Retract



#### Programming sample

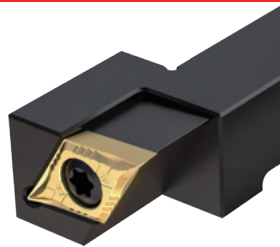
- ① T0200 ..... Tool selection
- ② G00 X13.0 Z0 ..... Move to start position
- ③ G01 X10.0 F0.1 ..... Commence OD turning
- ④ Z5.0 F0.05 ..... OD turning
- ⑤ X13.0 ..... Return to start position
- ⑥ G00X20.0 ..... Tool exit

#### Programming sample

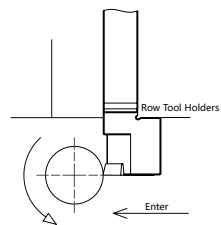
- ① T0200 ..... Tool selection
- ② G00 Y13.0 Z0 T2 ..... **Move the Y-axis**
- ③ X0 ..... Move to start position
- ④ G01 Y10.0 F0.1 ..... Commence OD turning
- ⑤ Z5.0 F0.05 ..... OD turning
- ⑥ Y13.0 ..... Return to start position
- ⑦ G00X20.0 ..... Tool exit

Note) Ensure to first move ② Y-axis before ③ moving to the start position.

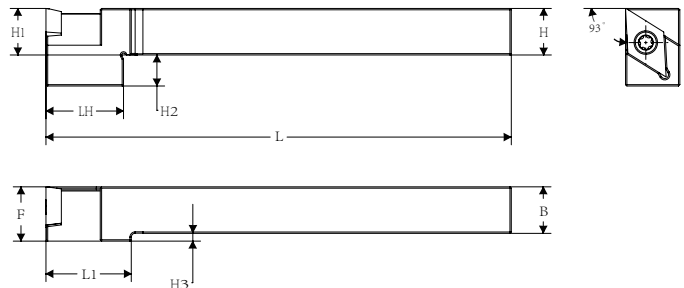
## Y-axis Toolholders



• Y-SDJC(External)

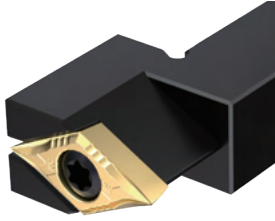


• Application Examples

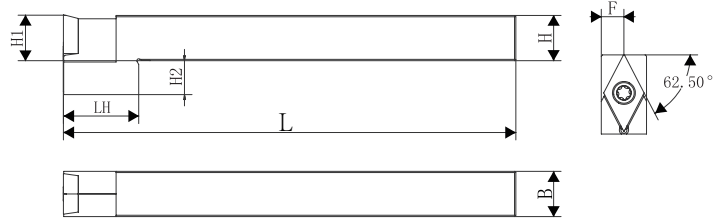
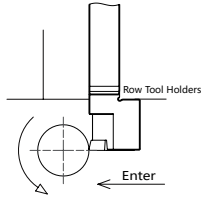


Type	Size (mm)								Accessories		Corresponding Insert
	H(H1)	B	F	LH	L	L1	H2	H3	Screw	Wrench	
Y-SDJCR-1010H-07	10	10	10	10	100	0	5	0	KS-2503-T	KW-T8	DC□□0702□□
Y-SDJCR-1212JX-07	12	12	12	10	120	0	3	0	KS-2503-T	KW-T8	DC□□0702□□
Y-SDJCR-1212JX-11	12	12	14	20	120	22	8	2	KS-4008-T	KW-T15	DC□□11T3□□
Y-SDJCR-1616JX-11	16	16	16	25	120	0	0	0	KS-4008-T	KW-T15	DC□□11T3□□

## Y-axis Centered Toolholders



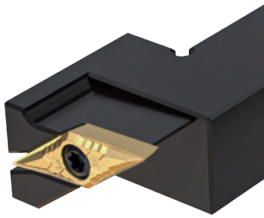
• Y-SDNCN(External)



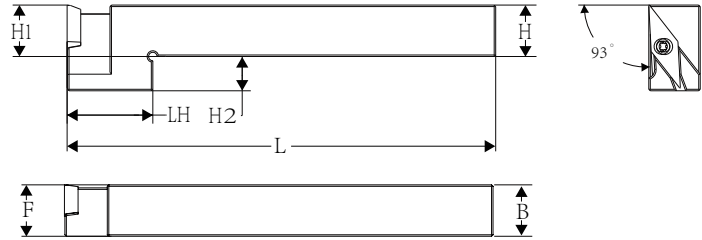
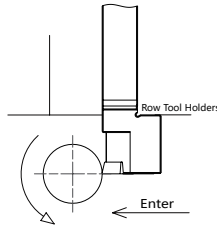
• Application Examples

Type	Size (mm)						Accessories		Corresponding Insert
	H(H1)	B	F	LH	L	H2	Screw	Wrenth	
Y-SDNCN-1010H-07	10	10	5	10	100	5	KS-2503-T	KW-T8	DC□□0702□□
Y-SDNCN-1212JX-07	12	12	6	10	120	3	KS-2503-T	KW-T8	DC□□0702□□
Y-SDNCN-1212JX-11	12	12	6	20	120	9	KS-4008-T	KW-T15	DC□□11T3□□
Y-SDNCN-1616JX-11	16	16	8	20	120	5	KS-4008-T	KW-T15	DC□□11T3□□

## Y-axis Toolholders



• Y-SVJC(External)



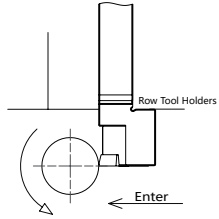
• Application Examples

Type	Size (mm)						Accessories		Corresponding Insert
	H(H1)	B	F	LH	L	H2	Screw	Wrenth	
Y-SVJCR-1212H-11	12	12	12	20	100	8	KS-2503-T	KW-T8	VC□□1103□□
Y-SVJCR-1616JX-11	16	16	16	25	120	4	KS-2503-T	KW-T8	VC□□1103□□

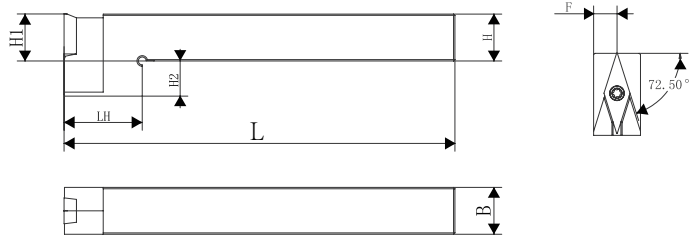
# Y-axis Centered Toolholders



• Y-SVVCN(External)



• Application Examples

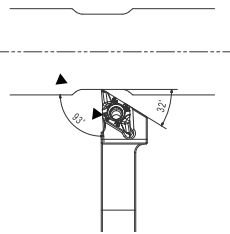


Type	Size (mm)						Accessories		Corresponding Insert
	H(H1)	B	F	LH	L	H2	Screw	Wrenth	
Y-SVVCN-1212JX-11	12	12	6	20	120	9	KS-2503-T	KW-T8	VC□□1103□□
Y-SVVCN-1616JX-11	16	16	8	20	120	5	KS-2503-T	KW-T8	VC□□1103□□

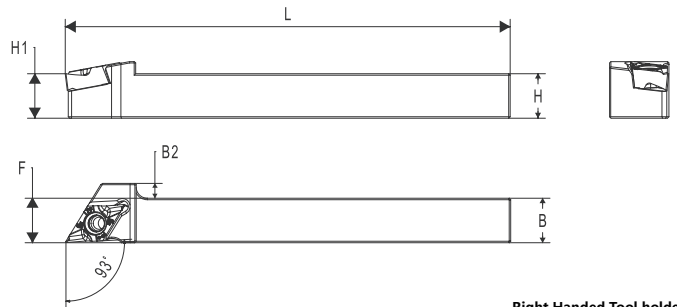
# KDC Toolholders



• KDC-SDJX(External)



• Application Examples

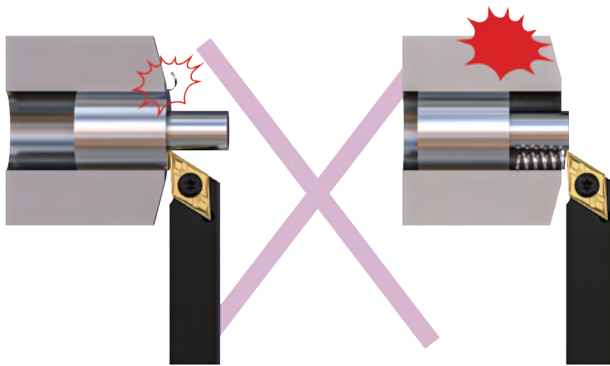


Right Handed Tool holder (R)

Type	Size (mm)					Accessories		Corresponding Insert
	H(H1)	B	F	B2	L	Screw	Wrenth	
KDC-SDJXR-0808H-07	8	8	8	2	100	KS-2504-T	KW-T8	DXGU 0703□□R□□
KDC-SDJXR-1010J-07	10	10	10	0	110	KS-2504-T	KW-T8	DXGU 0703□□R□□
KDC-SDJXR-1212J-07	12	12	12	0	110	KS-2504-T	KW-T8	DXGU 1104□□R□□
KDC-SDJXR-1010J-11	10	10	10	6	110	KS-4008-T	KW-T15	DXGU 1104□□R□□
KDC-SDJXR-1212JX-11	12	12	12	4	120	KS-4008-T	KW-T15	DXGU 1104□□R□□
KDC-SDJXR-1616JX-11	16	16	16	0	120	KS-4008-T	KW-T15	DXGU 1104□□R□□

# Clearance Shank Toolholders

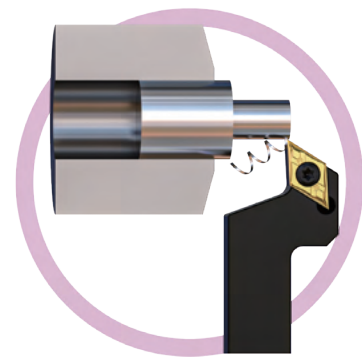
## Problems of Old Tools



When Workpiece Returns,  
Burr of Roughing Scratch Guide Bushing

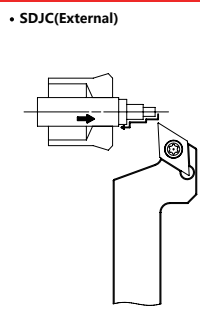
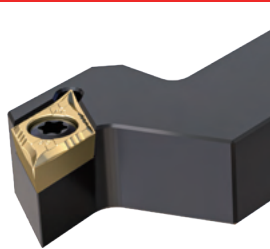
When Workpiece Comes off from Guide Bushing,  
Chips may Enwind and Return to Guide Bushing

## Clearance Shank Toolholders

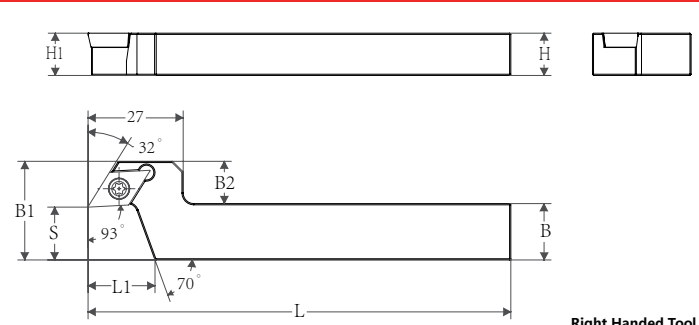


Finishing without Returning to Guide Bushing!  
Good Chips Evacuation!

# Clearance Shank Toolholders



• Application Examples



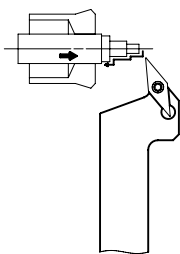
Right Handed Tool holder (R)

Type	Size (mm)							Accessories		Corresponding Insert
	H(H1)	B	B1	B2	L	L1	S	Screw	Wrenth	
S-SDJCR-1216JX-11-F05	12	16	18	2	120	15.4	5	KS-4008-T	KW-T15	DC□□11T3□□
S-SDJCR-1216JX-11-F15	12	16	28	12	120	19	15	KS-4008-T	KW-T15	DC□□11T3□□
S-SDJCR-1620JX-11-F05	16	20	20	0	120	15.4	5	KS-4008-T	KW-T15	DC□□11T3□□
S-SDJCR-1620JX-11-F15	16	20	28	8	120	19	15	KS-4008-T	KW-T15	DC□□11T3□□

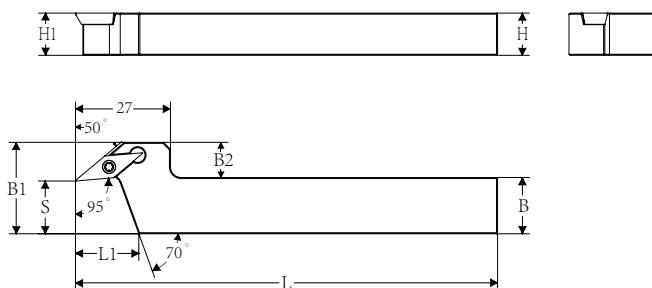
## Clearance Shank Toolholders



• SVLC/P(External)



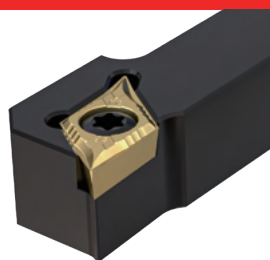
• Application Examples



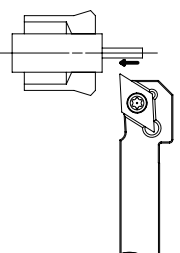
Right Handed Tool holder (R)

Type	Size (mm)							Accessories		Corresponding Insert
	H(H1)	B	B1	B2	L	L1	S	Screw	Wrenth	
S-SVLCR-1216JX-11-F15	12	16	26	10	120	18	15	KS-2503-T	KW-T8	VC□□1103□□
S-SVLCR-1620JX-11-F15	16	20	26	6	120	18	15	KS-2503-T	KW-T8	VC□□1103□□
S-SVLPR-1216JX-11-F15	12	16	26	10	120	18	15	KS-2503-T	KW-T8	VP□□1103□□
S-SVLPR-1620JX-11-F15	16	20	26	6	120	18	15	KS-2503-T	KW-T8	VP□□1103□□

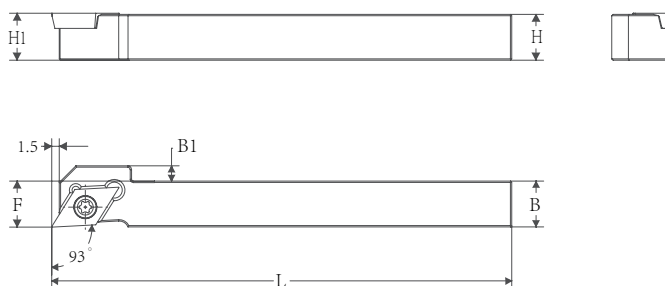
## Strengthened Toolholders



• SDJC(External)



• Application Examples



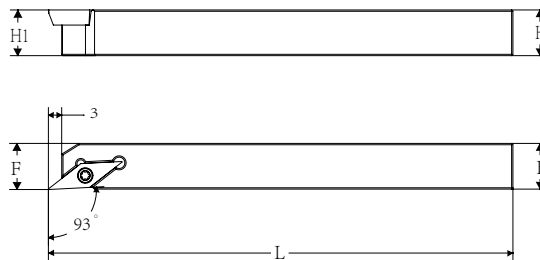
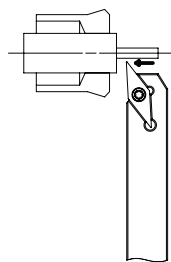
Right Handed Tool holder (R)

Type	Size (mm)					Accessories		Corresponding Insert
	H(H1)	B	B1	F	L	Screw	Wrenth	
ST-SDJC%-1212JX-11	12	12	4	12	120	KS-4008-T	KW-T15	DC□□11T3□□
ST-SDJC%-1616JX-11	16	16	0	16	120	KS-4008-T	KW-T15	DC□□11T3□□
ST-SDJC%-2020JX-11	20	20	0	20	120	KS-4008-T	KW-T15	DC□□11T3□□

# Strengthened Toolholders



• SVJB/C/P(External)

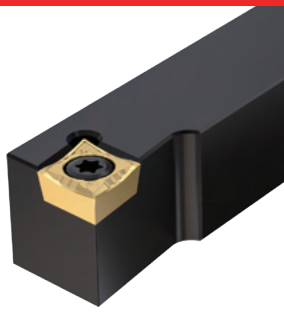


• Application Examples

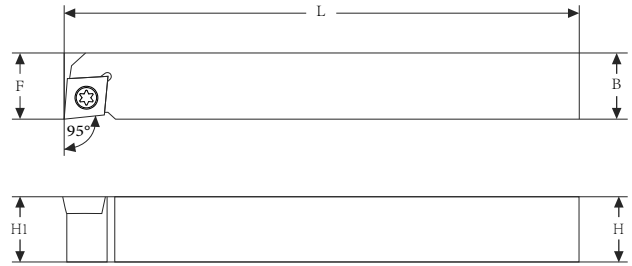
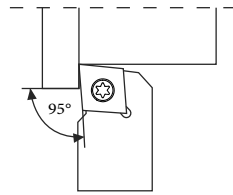
Right Handed Tool holder (R)

Type	Size (mm)				Accessories		Corresponding Insert
	H(H1)	B	F	L	Screw	Wrench	
ST-SVJB% -1010JX-11	10	10	10	120	KS-2503-T	KW-T8	VB□□1103 □□
ST-SVJB% -1212JX-11	12	12	12	120	KS-2503-T	KW-T8	VB□□1103 □□
ST-SVJB% -1616JX-11	16	16	16	120	KS-2503-T	KW-T8	VB□□1103 □□
ST-SVJB% -2020JX-11	20	20	20	120	KS-2503-T	KW-T8	VB□□1103 □□
ST-SVJC% -1010JX-11	10	10	10	120	KS-2503-T	KW-T8	VC□□1103 □□
ST-SVJC% -1212JX-11	12	12	12	120	KS-2503-T	KW-T8	VC□□1103 □□
ST-SVJC% -1616JX-11	16	16	16	120	KS-2503-T	KW-T8	VC□□1103 □□
ST-SVJC% -2020JX-11	20	20	20	120	KS-2503-T	KW-T8	VC□□1103 □□
ST-SVJP% -1010JX-11	10	10	10	120	KS-2503-T	KW-T8	VP□□1103 □□
ST-SVJP% -1212JX-11	12	12	12	120	KS-2503-T	KW-T8	VP□□1103 □□
ST-SVJP% -1616JX-11	16	16	16	120	KS-2503-T	KW-T8	VP□□1103 □□
ST-SVJP% -2020JX-11	20	20	20	120	KS-2503-T	KW-T8	VP□□1103 □□

## SCLC Toolholders



• SCLS-N(External/Face Machining)

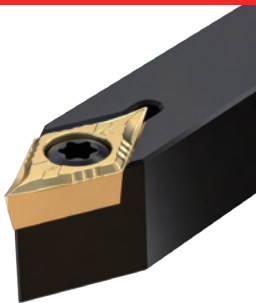


• Application Examples

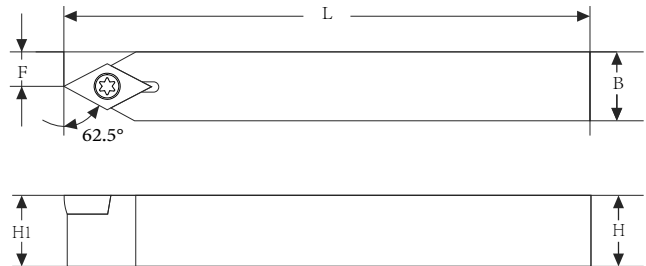
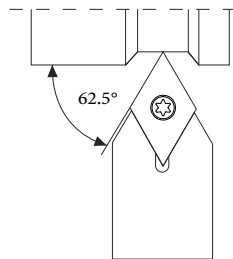
Right Handed Tool holder (R)

Type	Size (mm)				Accessories		Corresponding Insert
	H(H1)	B	F	L	Screw	Wrench	
SCLC <sup>KL</sup> -0808H-06-N	8	8	8	100	KS-2503-T	KW-T8	CC□□0602□□
SCLC <sup>KL</sup> -1010H-06-N	10	10	10	100	KS-2503-T	KW-T8	CC□□0602□□
SCLC <sup>KL</sup> -1212H-09-N	12	12	12	100	KS-4008-T	KW-T15	CC□□09T3□□
SCLC <sup>KL</sup> -1616K-09-N	16	16	16	125	KS-4008-T	KW-T15	CC□□09T3□□
SCLC <sup>KL</sup> -2020K-09-N	20	20	20	125	KS-4008-T	KW-T15	CC□□09T3□□
SCLC <sup>KL</sup> -2525M-09-N	25	25	25	150	KS-4008-T	KW-T15	CC□□09T3□□

## SDNCN Toolholders



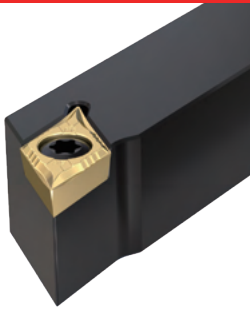
• SDNCN(External/Profiling)



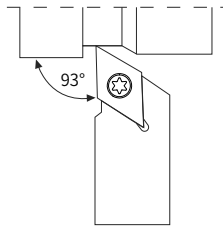
• Application Examples

Type	Size (mm)				Accessories		Corresponding Insert
	H(H1)	B	F	L	Screw	Wrench	
SDNCN-1010H-07	10	10	5	100	KS-2503-T	KW-T8	DC□□0702□□
SDNCN-1212H-07	12	12	6	100	KS-2503-T	KW-T8	DC□□0702□□
SDNCN-1616K-07	16	16	8	125	KS-2503-T	KW-T8	DC□□0702□□
SDNCN-1212H-11	12	12	6	100	KS-4008-T	KW-T15	DC□□11T3□□
SDNCN-1616K-11	16	16	8	125	KS-4008-T	KW-T15	DC□□11T3□□
SDNCN-2020K-11	20	20	10	125	KS-4008-T	KW-T15	DC□□11T3□□
SDNCN-2525M-11	25	25	12.5	150	KS-4008-T	KW-T15	DC□□11T3□□

# SDJC Toolholders



• SDJC-N(External/Profiling)



• Application Examples

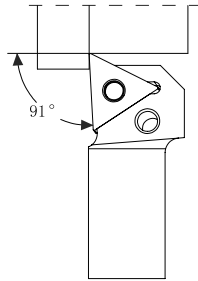
Right Handed Tool holder (R)

Type	Size (mm)				Accessories		Corresponding Insert
	H(H1)	B	F	L	Screw	Wrenth	
SDJC <sup>®</sup> L -0808H-07-N	8	8	8	100	KS-2503-T	KW-T8	DC□□0702□□
SDJC <sup>®</sup> L -1010H-07-N	10	10	10	100	KS-2503-T	KW-T8	DC□□0702□□
SDJC <sup>®</sup> L -1212H-07-N	12	12	12	100	KS-2503-T	KW-T8	DC□□0702□□
SDJC <sup>®</sup> L -1616K-07-N	16	16	16	125	KS-2503-T	KW-T8	DC□□0702□□
SDJC <sup>®</sup> L -2020K-07-N	20	20	20	125	KS-2503-T	KW-T8	DC□□0702□□
SDJC <sup>®</sup> L -2525M-07-N	25	25	25	150	KS-2503-T	KW-T8	DC□□0702□□
SDJC <sup>®</sup> L -1010H-11-N	10	10	10	100	KS-4008-T	KW-T15	DC□□11T3□□
SDJC <sup>®</sup> L -1212H-11-N	12	12	12	100	KS-4008-T	KW-T15	DC□□11T3□□
SDJC <sup>®</sup> L -1616K-11-N	16	16	16	125	KS-4008-T	KW-T15	DC□□11T3□□
SDJC <sup>®</sup> L -2020K-11-N	20	20	20	125	KS-4008-T	KW-T15	DC□□11T3□□
SDJC <sup>®</sup> L -2525M-11-N	25	25	25	150	KS-4008-T	KW-T15	DC□□11T3□□
SDJC <sup>®</sup> L -3232P-11-N	32	32	32	170	KS-4008-T	KW-T15	DC□□11T3□□

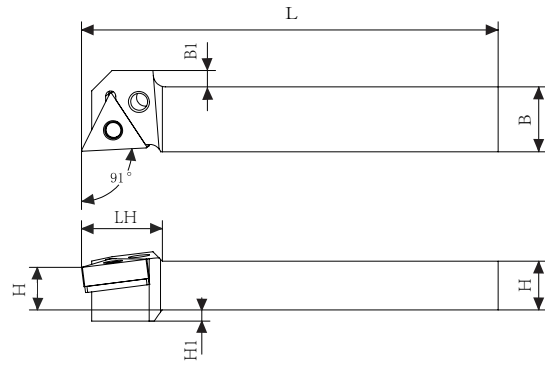
# PTGN Toolholders



• PTGN(External/Face Machining)



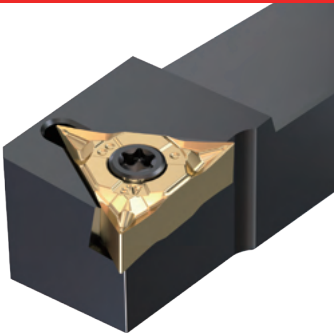
• Application Examples



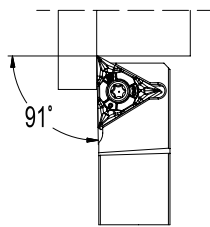
Right Handed Tool holder (R)

Type	Size (mm)						Accessories					Corresponding Insert
	H	H1	B	B1	L	LH	Screw	Level	Shim	Metal Pin	Wrenth	
PTGN%L -1216H-16	12	3.8	16	4	100	21						TNGG 1604□□ TNGU 1604□□

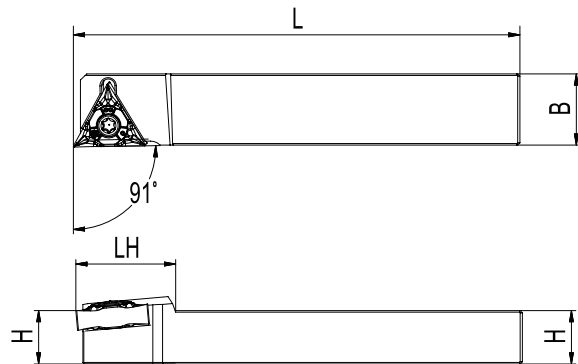
# STGN Toolholders



• STGN(External/Face Machining)



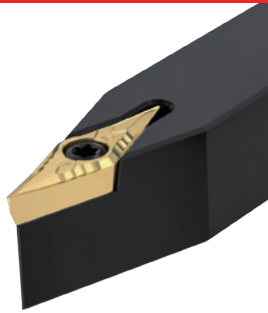
• Application Examples



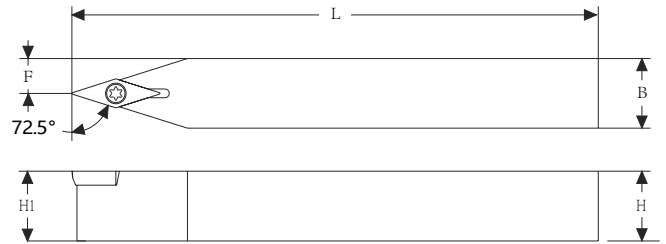
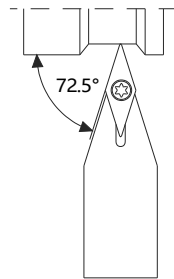
Right Handed Tool holder (R)

Type	Size (mm)				Accessories		Corresponding Insert
	H	B	L	LH	Screw	Wrenth	
STGN%L -1216H-16	12	16	100	21	KS-35065-T	KW-T15	TNGU 1604□□

## SVVCN Toolholders



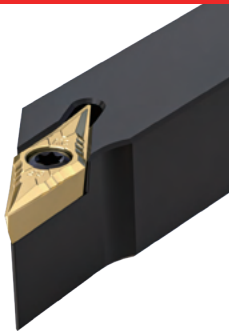
• SVVCN(External/Profiling)



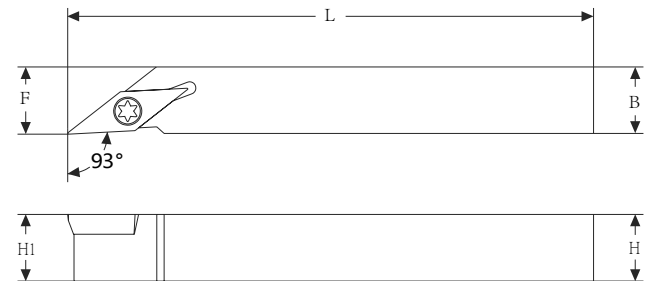
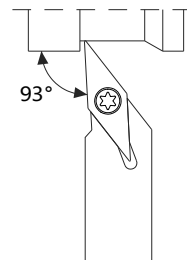
• Application Examples

Type	Size (mm)				Accessories		Corresponding Insert
	H(H1)	B	F	L	Screw	Wrenth	
SVVCN-1010H-11	10	10	5	100	KS-2503-T	KW-T8	VC □□1103 □□
SVVCN-1212H-11	12	12	6	100	KS-2503-T	KW-T8	VC □□1103 □□
SVVCN-1616K-11	16	16	8	125	KS-2503-T	KW-T8	VC □□1103 □□
SVVCN-2020K-11	20	20	10	125	KS-2503-T	KW-T8	VC □□1103 □□
SVVCN-1616K-16	16	16	8	125	KS-4008-T	KW-T15	VC □□1604 □□
SVVCN-2020K-16	20	20	10	150	KS-4008-T	KW-T15	VC □□1604 □□
SVVCN-2525M-16	25	25	12.5	150	KS-4008-T	KW-T15	VC □□1604 □□

## SVJC Toolholders



• SVJC-N(External/Profiling)



• Application Examples

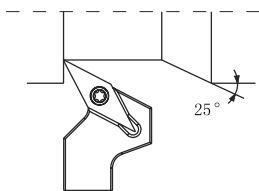
Right Handed Tool holder (R)

Type	Size (mm)				Accessories		Corresponding Insert
	H(H1)	B	F	L	Screw	Wrenth	
SVJC% -1010H-11-N	10	10	10	100	KS-2503-T	KW-T8	VC □□1103 □□
SVJC% -1212H-11-N	12	12	12	100	KS-2503-T	KW-T8	VC □□1103 □□
SVJC% -1616K-11-N	16	16	16	125	KS-2503-T	KW-T8	VC □□1103 □□
SVJC% -2020K-11-N	20	20	20	125	KS-2503-T	KW-T8	VC □□1103 □□
SVJC% -1616K-16-N	16	16	16	125	KS-4008-T	KW-T15	VC □□1604 □□
SVJC% -2020K-16-N	20	20	20	125	KS-4008-T	KW-T15	VC □□1604 □□
SVJC% -2525M-16-N	25	25	25	150	KS-4008-T	KW-T15	VC □□1604 □□

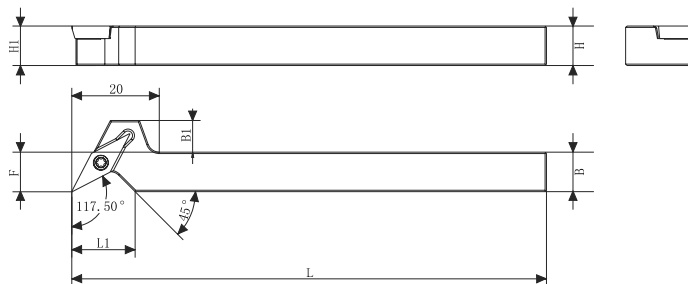
# SVPC Toolholders



• SVPC-N  
(External/Profiling/Face Machining/)



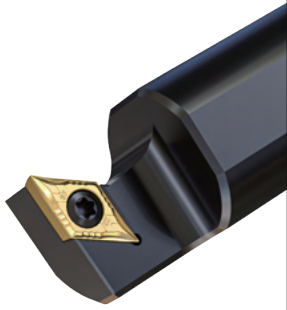
• Application Examples



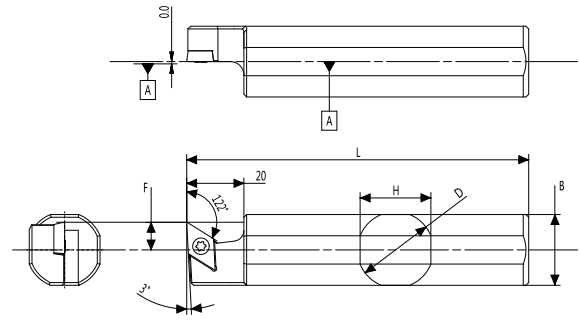
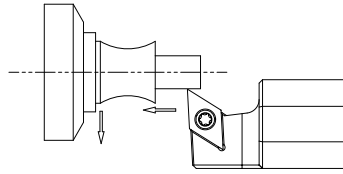
Right Handed Tool holder (R)

Type	Size (mm)						Accessories		Corresponding Insert
	H(H1)	B	B1	F	L	L1	Screw	Wrenth	
SVPCR-1010JX-11-N	10	10	8	10	120	16	KS-2503-T	KW-T8	VC □□1103 □□
SVPCR-1212JX-11-N	12	12	6	12	120	16	KS-2503-T	KW-T8	VC □□1103 □□
SVPCR-1616JX-11-N	16	16	2	16	120	20	KS-2503-T	KW-T8	VC □□1103 □□

# DS-SDUCL Toolholders



• DS-SDUCL  
(excircle of sub-spindle/Face Machining)

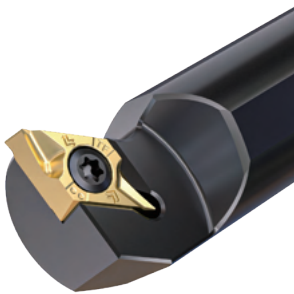


• Application Examples

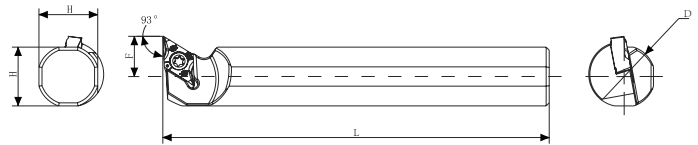
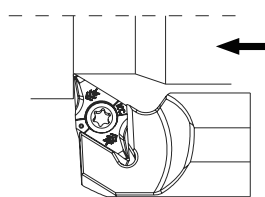
left handed holders (L)

Type	Size (mm)					Accessories		Corresponding Insert
	D	H	B	L	F	Screw	Wrenth	
DS-SDUCL-14F07	14	13	13	80	6.0	KS-2503-T	KW-T8	DC□□0702□□
DS-SDUCL-15.875H07	15.875	15	15	100	6.0			
DS-SDUCL-16F07	16	15	15	80	6.0			
DS-SDUCL-16X07	16	15	15	95	6.0			
DS-SDUCL-19.05K07	19.05	18	18	125	6.0			
DS-SDUCL-20X07	20	19	19	95	6.0			
DS-SDUCL-20K07	20	19	19	125	6.0			
DS-SDUCL-22K07	22	21	21	125	6.0			
DS-SDUCL-14F11	14	13	13	80	6.0	KS-4008-T	KW-T15	DC□□11T3□□
DS-SDUCL-16F11	16	15	15	80	6.0			
DS-SDUCL-19.05K11	19.05	18	18	125	6.0			
DS-SDUCL-19.05M11	19.05	18	18	150	6.0			
DS-SDUCL-20X11	20	19	19	95	11.0			
DS-SDUCL-20K11	20	19	19	125	10			
DS-SDUCL-22K11	22	21	21	125	10			
DS-SDUCL-25K11	25	25	25	125	10			
DS-SDUCL-25.4M11	25.4	25.4	25.4	150	10			

# KDC-SDUX Toolholders



• KDC-SDUX  
(excircle of sub-spindle/Face Machining)



• Application Examples

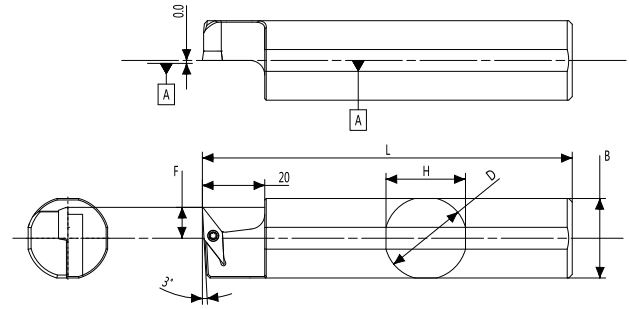
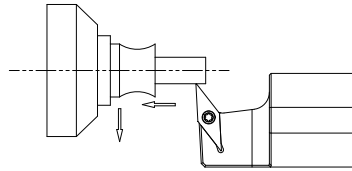
left handed holders (L)

Type	Size (mm)				Accessories		Corresponding Insert
	D	F	H	L	Screw	Wrenth	
KDC-S19M-SDUXL-11	19.05	13	18	150	KS-4008-T	KW-T15	DXGU 1104□□R-TF(TFX)
KDC-S20K-SDUXL-11	20	13	19	125	KS-4008-T	KW-T15	DXGU 1104□□R-TF(TFX)
KDC-S25M-SDUXL-11	25	16	24	150	KS-4008-T	KW-T15	DXGU 1104□□R-TF(TFX)

# DS-SVUB(C)L Type



• DS-SVUB(C)L  
(excircle of sub-spindle/Face Machining)



• Application Examples

left handed holders (L)

Type	Size (mm)					Accessories		Corresponding Insert
	D	H	B	L	F	Screw	Wrenth	
DS-SVUBL-19.05G11	19.05	18	18	90	10.5	KS-2503-T	KW-T8	VB □□1103 □□
DS-SVUBL-19.05K11	19.05	18	18	125	10.5			
DS-SVUBL-20G11	20	19	19	90	10.5			
DS-SVUBL-20K11	20	19	19	125	10.5			
DS-SVUBL-22K11	22	21	21	125	10.5			
DS-SVUBL-25M11	25	24	24	150	10.5			
DS-SVUBL-25.4M11	25.4	24	24	150	10.5	KS-2503-T	KW-T8	VC □□1103 □□
DS-SVUCL-19.05G11	19.05	18	18	90	10.5			
DS-SVUCL-19.05K11	19.05	18	18	125	10.5			
DS-SVUCL-20G11	20	19	19	90	10.5			
DS-SVUCL-20K11	20	19	19	125	10.5			
DS-SVUCL-22K11	22	21	21	125	10.5			
DS-SVUCL-25M11	25	24	24	150	10.5	KS-2503-T	KW-T8	VC □□1103 □□
DS-SVUCL-25.4M11	25.4	24	24	150	10.5			

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High Performance Cutting tools R & D Manufacturer  
**KOYIN CUT**  
OPTIMIZE YOUR PRODUCTIVITY

# QCMT SERIES

QCMT Quick Change Modular Turning Tools

Modular Turning Tools  
QCMT Quick Change



Splitted Structure Design



Double Connecting with V-shape Slots and Face



Precision Locating



Strong Inner Cooling System

Fast and accurate centre height locating 0.005mm

## Symbols of QCMT and KM Toolholders

	10: 10 Shank								
KM: KM Series	12: 12 Shank				F: 80			JCT: Inner Cooling	
QCMT: QCMT Series	16: 16 Shank				H: 100			Without Inner Cooling	
Series	Tool Size	-	Tool Height	Tool Width	Tool Length	-	With Inner Cooling		
QCMT	12	-	12	12	F	-	JCT		

## Symbols of ISO Standard Cutting Heads

	10: 10 Shank					B: 5°						
KM: KM Series	12: 12 Shank				N: 62.5°	C: 7°	R: Right Handed Holders				JCT: Inner Cooling	
QCMT: QCMT Series	16: 16 Shank			D: 55° Rhombic	V: 72.5°	P: 11°	L: Left Handed Holders				Without Inner Cooling	
				V: 35° Rhombic	J: 93°	X: others	N: Versatile Holders					
Series	Head Size	-	Screw Clamping	Insert Shape	Entering Angle	Clearance Angle	Insert Direction	Edge Length	-	With Inner Cooling	-	others
QCMT	12	-	S	V	J	C	R	11	-	JCT	-	P

## Symbols of ISO Y-axis Cutting Heads

	10: 10 Shank					B: 5°								
KM: KM Series	12: 12 Shank				N: 62.5°	C: 7°	R: Right Handed Holders				JCT: Inner Cooling			
QCMT: QCMT Series	16: 16 Shank			D: 55° Rhombic	V: 72.5°	P: 11°	L: Left Handed Holders				Without Inner Cooling			
				V: 35° Rhombic	J: 93°	X: others	N: Versatile Holders							
Series	Head Size	-	Y axis	-	Screw Clamping	Insert Shape	Entering Angle	Clearance Angle	Insert Direction	Edge Length	-	With Inner Cooling	-	others
QCMT	12	-	Y	-	S	V	J	C	R	11	-	JCT	-	P

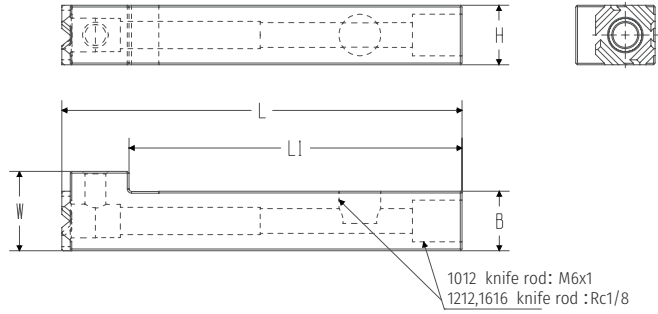
## Symbols of KX618 Cutting Heads

	10: 10 Shank									
KM: KM Series	12: 12 Shank							JCT: Inner Cooling		
QCMT: QCMT Series	16: 16 Shank					R: Right Handed Holders		Without Inner Cooling		
Series	Head Size	-	KX618 Insert	Cutting Heads Direction	-	With Inner Cooling		-	others	
QCMT	12	-	KX618	R	-	JCT		-	P	



## Symbols of KSI12 Cutting Heads

	10: 10 Shank									
KM: KM Series	12: 12 Shank					R: Right Handed Holders		JCT: Inner Cooling		
QCMT: QCMT Series	16: 16 Shank					L: Left Handed Holders		Without Inner Cooling		
Series	Head Size	-	KSI12 Insert	Cutting Heads Direction	-	With Inner Cooling		-	others	
QCMT	12	-	KSI12	R	-	JCT		-	P	

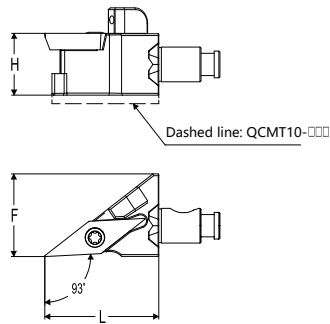
## Turning-Modular Toolholders with JCT



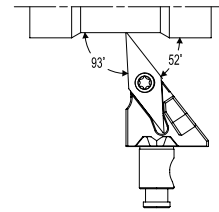
Modular Turning Tools  
QCMT Quick Change

Type	Size					Accessories		With Inner Cooling
	H	B	W	L	L1	Screw	Wrench	
QCMT10-1012F-JCT	10	12	16	80	67	KS-5007-TS-IP	KW-IP10	
QCMT12-1212F-JCT	12	12	16	80	67	KS-5007-TS-IP	KW-IP10	
QCMT12-1212H-JCT	12	12	16	100	87	KS-5007-TS-IP	KW-IP10	
QCMT16-1616F-JCT	16	16	19	80	67	KS-6009-HS-P0.75	KW-LH3	
QCMT16-1616H-JCT	16	16	19	100	87	KS-6009-HS-P0.75	KW-LH3	
QCMT10-1012F	10	12	16	80	67	KS-5007-TS-IP	KW-IP10	
QCMT12-1212F	12	12	16	80	67	KS-5007-TS-IP	KW-IP10	
QCMT12-1212H	12	12	16	100	87	KS-5007-TS-IP	KW-IP10	
QCMT16-1616F	16	16	19	80	67	KS-6009-HS-P0.75	KW-LH3	
QCMT16-1616H	16	16	19	100	87	KS-6009-HS-P0.75	KW-LH3	

## V-shape Cutting Heads

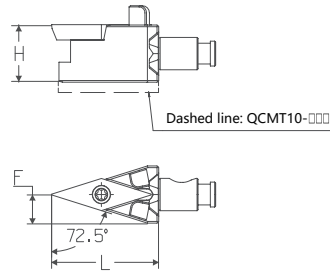


### Processing Application

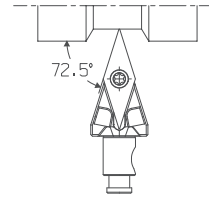


Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrench		
QCMT10-SVJB% 11-JCT-P	22	10	16	KS-2503-T	KW-T8	VB□□1103□□	
QCMT12-SVJB% 11-JCT-P	22	12	16	KS-2503-T	KW-T8	VB□□1103□□	
QCMT16-SVJB% 11-JCT-P	23	16	19	KS-2503-T	KW-T8	VB□□1103□□	
QCMT10-SVJC% 11-JCT-P	22	10	16	KS-2503-T	KW-T8	VC□□1103□□	
QCMT12-SVJC% 11-JCT-P	22	12	16	KS-2503-T	KW-T8	VC□□1103□□	
QCMT16-SVJC% 11-JCT-P	23	16	19	KS-2503-T	KW-T8	VC□□1103□□	
QCMT10-SVJP% 11-JCT-P	22	10	16	KS-2503-T	KW-T8	VP□□1103□□	
QCMT12-SVJP% 11-JCT-P	22	12	16	KS-2503-T	KW-T8	VP□□1103□□	
QCMT16-SVJP% 11-JCT-P	23	16	19	KS-2503-T	KW-T8	VP□□1103□□	
QCMT10-SVJB% -11	22	10	16	KS-2503-T	KW-T8	VB□□1103□□	
QCMT12-SVJB% -11	22	12	16	KS-2503-T	KW-T8	VB□□1103□□	
QCMT16-SVJB% -11	23	16	19	KS-2503-T	KW-T8	VB□□1103□□	
QCMT10-SVJC% -11	22	10	16	KS-2503-T	KW-T8	VC□□1103□□	
QCMT12-SVJC% -11	22	12	16	KS-2503-T	KW-T8	VC□□1103□□	
QCMT16-SVJC% -11	23	16	19	KS-2503-T	KW-T8	VC□□1103□□	
QCMT10-SVJP% -11	22	10	16	KS-2503-T	KW-T8	VP□□1103□□	
QCMT12-SVJP% -11	22	12	16	KS-2503-T	KW-T8	VP□□1103□□	
QCMT16-SVJP% -11	23	16	19	KS-2503-T	KW-T8	VP□□1103□□	

## V-shape Cutting Heads



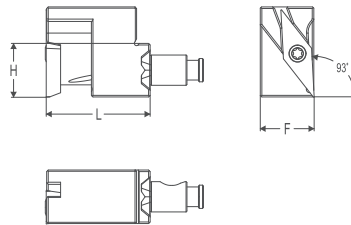
Processing Application



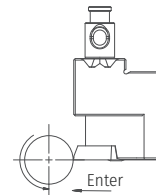
Modular Turning Tools  
QCMT - Quick Change

Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrenth		
QCMT10-SVBN11-JCT-P	22	10	5	KS-2503-T	KW-T8	VB□□1103□□	
QCMT12-SVBN11-JCT-P	22	12	6	KS-2503-T	KW-T8	VB□□1103□□	
QCMT16-SVBN11-JCP-P	23	16	8	KS-2503-T	KW-T8	VB□□1103□□	
QCMT10-SVVCN11-JCT-P	22	10	5	KS-2503-T	KW-T8	VC□□1103□□	
QCMT12-SVVCN11-JCT-P	22	12	6	KS-2503-T	KW-T8	VC□□1103□□	
QCMT16-SVVCN11-JCP-P	23	16	8	KS-2503-T	KW-T8	VC□□1103□□	
QCMT10-SVBN-11	22	10	5	KS-2503-T	KW-T8	VB□□1103□□	
QCMT12-SVBN-11	22	12	6	KS-2503-T	KW-T8	VB□□1103□□	
QCMT16-SVBN-11	23	16	8	KS-2503-T	KW-T8	VB□□1103□□	
QCMT10-SVVCN-11	22	10	5	KS-2503-T	KW-T8	VC□□1103□□	
QCMT12-SVVCN-11	22	12	6	KS-2503-T	KW-T8	VC□□1103□□	
QCMT16-SVVCN-11	23	16	8	KS-2503-T	KW-T8	VC□□1103□□	

## V-shape Y-axis Cutting Heads

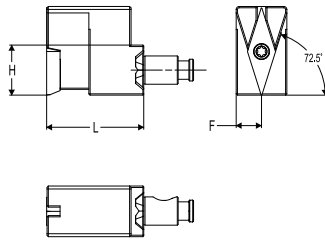


Processing Application

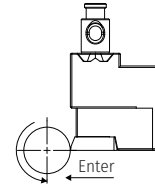


Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrenth		
QCMT10-Y-SVJCR11-JCT-P	23	10	16	KS-2503-T	KW-T8	VC□□1103□□	
QCMT12-Y-SVJCR11-JCT-P	23	12	16	KS-2503-T	KW-T8	VC□□1103□□	
QCMT16-Y-SVJCR11-JCT-P	23	16	19	KS-2503-T	KW-T8	VC□□1103□□	
QCMT10-Y-SVJCR-11	23	10	16	KS-2503-T	KW-T8	VC□□1103□□	
QCMT12-Y-SVJCR-11	23	12	16	KS-2503-T	KW-T8	VC□□1103□□	
QCMT16-Y-SVJCR-11	23	16	19	KS-2503-T	KW-T8	VC□□1103□□	

## V-shape Y-axis Cutting Heads

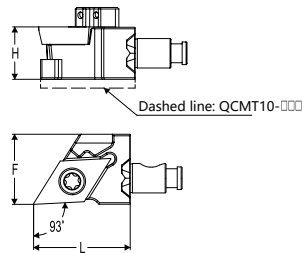
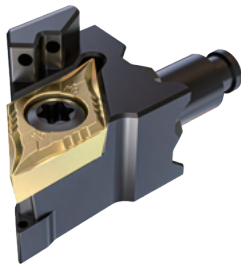


### Processing Application

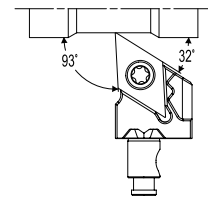


Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrenth		
QCMT10-Y-SVVCN11-JCT-P	23	10	5	KS-2503-T	KW-T8	VC□□1103□□	
QCMT12-Y-SVVCN11-JCT-P	23	12	6	KS-2503-T	KW-T8	VC□□1103□□	
QCMT16-Y-SVVCN11-JCT-P	23	16	8	KS-2503-T	KW-T8	VC□□1103□□	
QCMT10-Y-SVVCN-11	23	10	5	KS-2503-T	KW-T8	VC□□1103□□	
QCMT12-Y-SVVCN-11	23	12	6	KS-2503-T	KW-T8	VC□□1103□□	
QCMT16-Y-SVVCN-11	23	16	8	KS-2503-T	KW-T8	VC□□1103□□	

## D-shape Cutting Heads

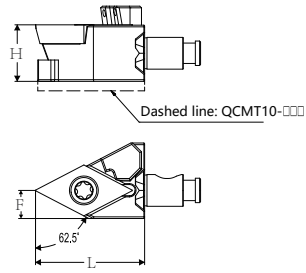
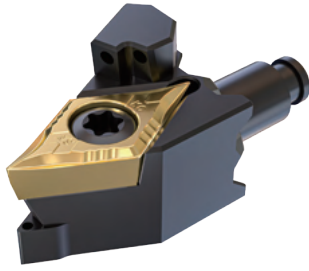


### Processing Application

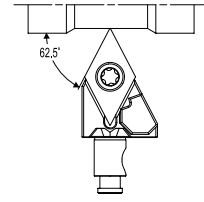


Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrenth		
QCMT10-SDJ <sup>93°</sup> 11-JCT-P	22	10	16	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT12-SDJ <sup>93°</sup> 11-JCT-P	22	12	16	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT16-SDJ <sup>93°</sup> 11-JCT-P	23	16	19	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT10-SDJ <sup>93°</sup> -11	22	10	16	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT12-SDJ <sup>93°</sup> -11	22	12	16	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT16-SDJ <sup>93°</sup> -11	23	16	19	KS-4008-T	KW-T15	DC□□11T3□□	

## D-shape Cutting Heads

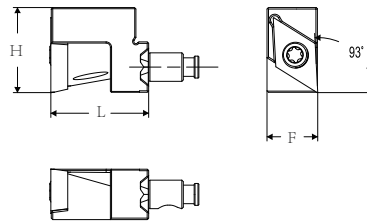
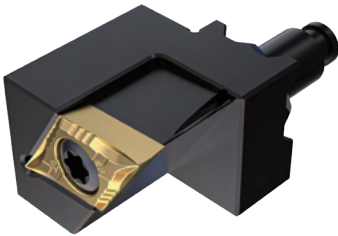


Processing Application

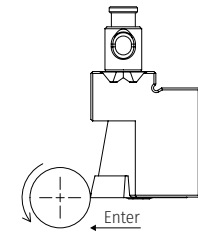


Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrenth		
QCMT10-SDNCN11-JCT-P	22	10	5	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT12-SDNCN11-JCT-P	22	12	6	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT16-SDNCN11-JCT-P	23	16	8	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT10-SDNCN-11	22	10	5	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT12-SDNCN-11	22	12	6	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT16-SDNCN-11	23	16	8	KS-4008-T	KW-T15	DC□□11T3□□	

## D-shape Y-axis Cutting Heads

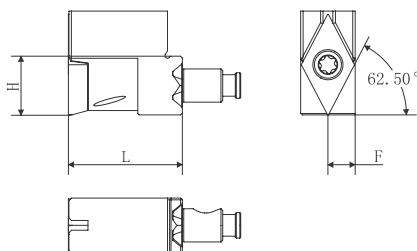
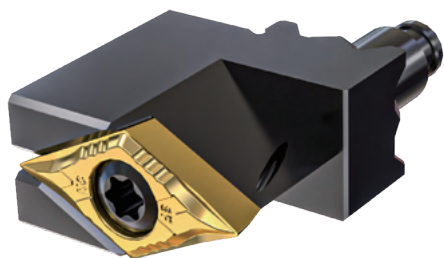


Processing Application

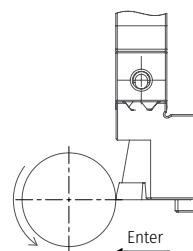


Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrenth		
QCMT10-Y-SDJCR07-JCT-P	23	10	16	KS-2503-T	KW-T8	DC□□0702□□	
QCMT10-Y-SDJCR11-JCT-P	23	10	16	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT12-Y-SDJCR07-JCT-P	23	12	16	KS-2503-T	KW-T8	DC□□0702□□	
QCMT12-Y-SDJCR11-JCT-P	23	12	16	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT16-Y-SDJCR11-JCT-P	23	16	19	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT10-Y-SDJCR-07	23	10	16	KS-2503-T	KW-T8	DC□□0702□□	
QCMT10-Y-SDJCR-11	23	10	16	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT12-Y-SDJCR-07	23	12	16	KS-2503-T	KW-T8	DC□□0702□□	
QCMT12-Y-SDJCR-11	23	12	16	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT16-Y-SDJCR-11	23	16	19	KS-4008-T	KW-T15	DC□□11T3□□	

# D-shape Y-axis Centered Tool Series

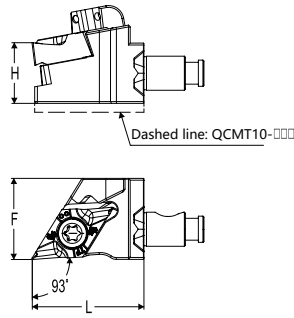


## Processing Application

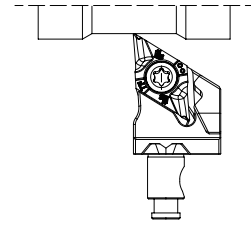


Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrenth		
QCMT10-Y-SDNCN07-JCT-P	23	10	5	KS-2503-T	KW-T8	DC□□0702□□	
QCMT10-Y-SDNCN11-JCT-P	23	10	5	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT12-Y-SDNCN07-JCT-P	23	12	6	KS-2503-T	KW-T8	DC□□0702□□	
QCMT12-Y-SDNCN11-JCT-P	23	12	6	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT16-Y-SDNCN11-JCT-P	23	16	8	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT10-Y-SDNCN-07	23	10	5	KS-2503-T	KW-T8	DC□□0702□□	
QCMT10-Y-SDNCN-11	23	10	5	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT12-Y-SDNCN-07	23	12	6	KS-2503-T	KW-T8	DC□□0702□□	
QCMT12-Y-SDNCN-11	23	12	6	KS-4008-T	KW-T15	DC□□11T3□□	
QCMT16-Y-SDNCN-11	23	16	8	KS-4008-T	KW-T15	DC□□11T3□□	



# KDC Cutting Heads



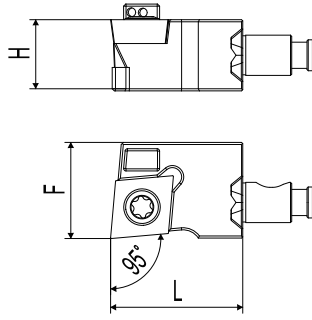
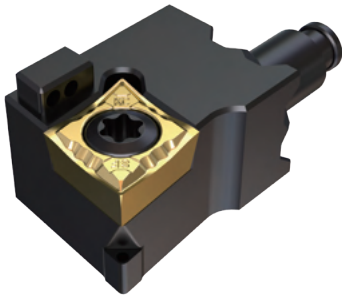
Processing Application



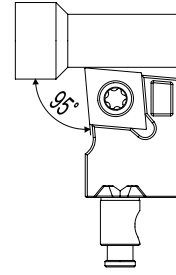
Modular Turning Tools  
QCMT - Quick Change

Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrenth		
QCMT10-SDJXR07-JCT-P	22	10	16	KS-2504-T	KW-T8	DXGU 0703□□ R-TF	
QCMT12-SDJXR07-JCT-P	22	12	16	KS-2504-T	KW-T8	DXGU 0703□□ R-TF	
QCMT16-SDJXR07-JCT-P	23	16	19	KS-2504-T	KW-T8	DXGU 0703□□ R-TF	
QCMT10-SDJXR11-JCT-P	22	10	16	KS-4008-T	KW-T15	DXGU 1104□□ R-TF(TFX)	
QCMT12-SDJXR11-JCT-P	22	12	16	KS-4008-T	KW-T15	DXGU 1104□□ R-TF(TFX)	
QCMT16-SDJXR11-JCT-P	23	16	19	KS-4008-T	KW-T15	DXGU 1104□□ R-TF(TFX)	
QCMT10-SDJXR-07	22	10	16	KS-2504-T	KW-T8	DXGU 0703□□ R-TF	
QCMT12-SDJXR-07	22	12	16	KS-2504-T	KW-T8	DXGU 0703□□ R-TF	
QCMT16-SDJXR-07	23	16	19	KS-2504-T	KW-T8	DXGU 0703□□ R-TF	
QCMT10-SDJXR-11	22	10	16	KS-4008-T	KW-T15	DXGU 1104□□ R-TF(TFX)	
QCMT12-SDJXR-11	22	12	16	KS-4008-T	KW-T15	DXGU 1104□□ R-TF(TFX)	
QCMT16-SDJXR-11	23	16	19	KS-4008-T	KW-T15	DXGU 1104□□ R-TF(TFX)	

# C-shape Cutting Heads

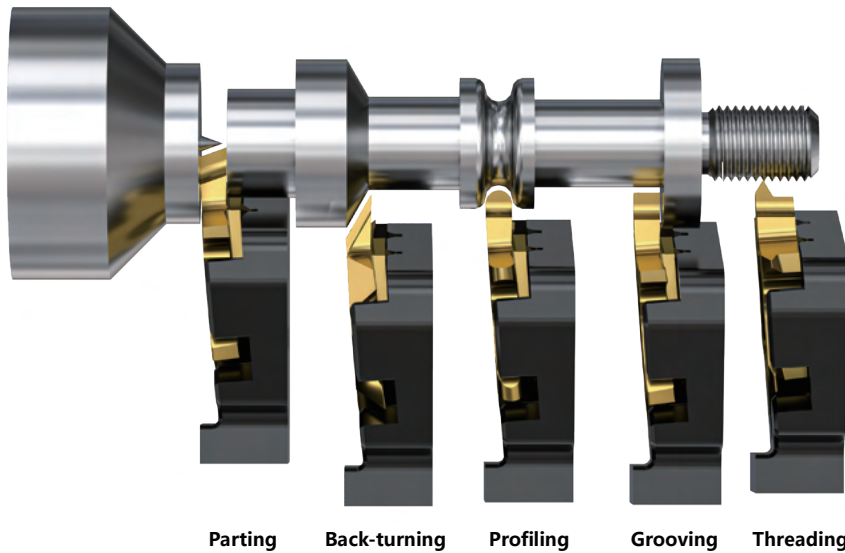


Processing Application



Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrenth		
QCMT10-SCLC <sup>®</sup> /L 09-JCT-P	22	10	16	KS-4008-T	KW-T15	CC□□09T3□□	
QCMT12-SCLC <sup>®</sup> /L 09-JCT-P	22	12	16	KS-4008-T	KW-T15	CC□□09T3□□	
QCMT16-SCLC <sup>®</sup> /L 09-JCT-P	23	16	19	KS-4008-T	KW-T15	CC□□09T3□□	
QCMT10-SCLC <sup>®</sup> /L -09	22	10	16	KS-4008-T	KW-T15	CC□□09T3□□	
QCMT12-SCLC <sup>®</sup> /L -09	22	12	16	KS-4008-T	KW-T15	CC□□09T3□□	
QCMT16-SCLC <sup>®</sup> /L -09	23	16	19	KS-4008-T	KW-T15	CC□□09T3□□	

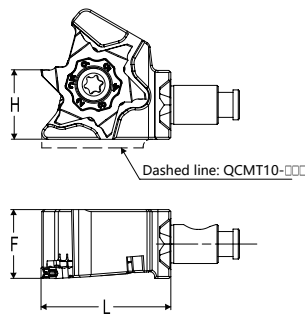
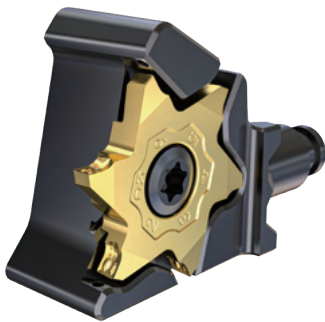
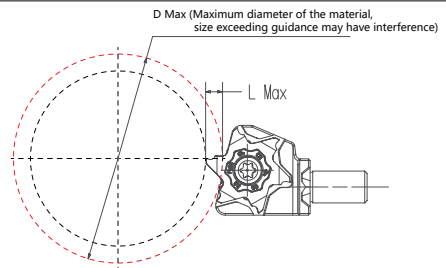
# Processing Application of KX618



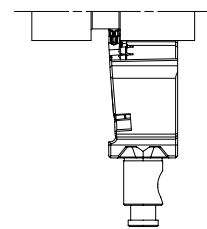
## ● Notice

1. Maximum diameter of parting is 7mm
2. Maximum groove depth is 3.5mm, groove depth varies according to the diameter of the material, please refer to the figure below

<b>Dmax</b>	32	42	51	65	100
<b>Lmax</b>	3.5	3.3	3.2	3.0	2.5

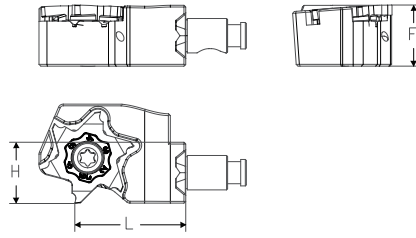
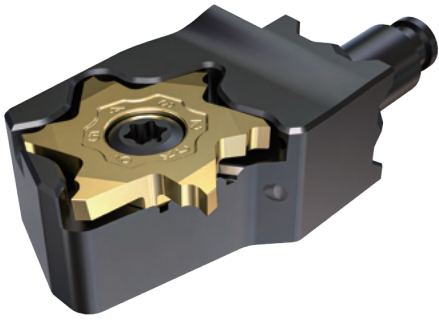


## Processing Application

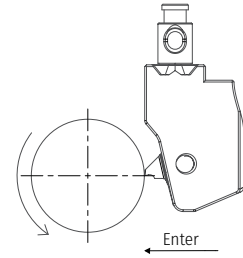


Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrenth		
QCMT10-KX618R-JCT-P	22	10	16	KS-4008-T	KW-T15	KX618□R□□	
QCMT12-KX618R-JCT-P	22	12	16	KS-4008-T	KW-T15	KX618□R□□	
QCMT16-KX618R-JCT-P	23	16	19	KS-4008-T	KW-T15	KX618□R□□	
QCMT10-KX618R	22	10	16	KS-4008-T	KW-T15	KX618□R□□	
QCMT12-KX618R	22	12	16	KS-4008-T	KW-T15	KX618□R□□	
QCMT16-KX618R	23	16	19	KS-4008-T	KW-T15	KX618□R□□	

# KX618-Y axis Cutting Heads

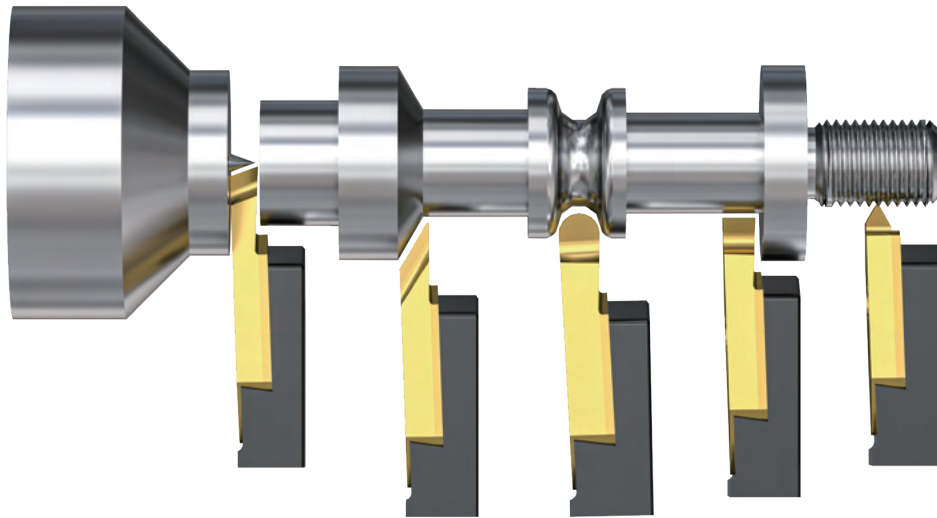


## Processing Application



Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrench		
QCMT12-Y-KX618R-JCT-P	19.5	12	16	KS-4008-T	KW-T15	KX618□R□□	
QCMT12-Y-KX618R	19.5	12	16	KS-4008-T	KW-T15	KX618□R□□	

# Processing Application of KSI 12 Series

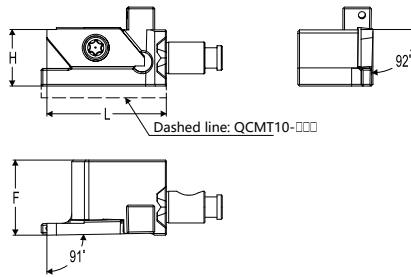
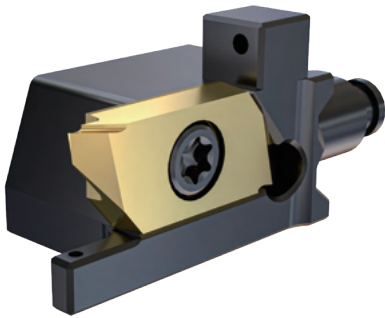


**Parting      Back-turning      Profiling      Grooving      Threading**

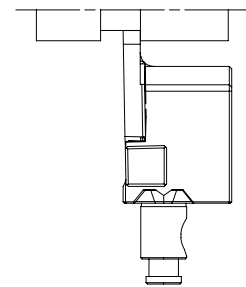
Maximum Diameter of parting is 12mm

Modular Turning Tools  
QCMT - Quick Change

## KSI 12 Cutting Heads

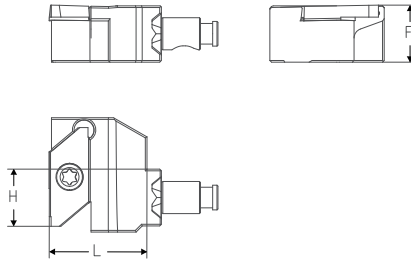
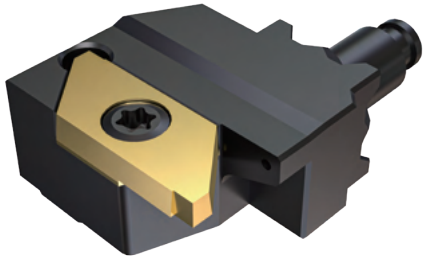


Processing Application

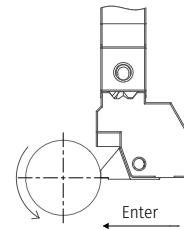


Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrench		
QCMT10-KSI12%L -JCT-P	25	10	16	KS-35065-T	KW-T15	KSI □ 12 % □ □	
QCMT12-KSI12%L -JCT-P	25	12	16	KS-35065-T	KW-T15	KSI □ 12 % □ □	
QCMT16-KSI12%L -JCT-P	25	16	19	KS-35065-T	KW-T15	KSI □ 12 % □ □	
QCMT10-KSI12%L	25	10	16	KS-35065-T	KW-T15	KSI □ 12 % □ □	
QCMT12-KSI12%L	25	12	16	KS-35065-T	KW-T15	KSI □ 12 % □ □	
QCMT16-KSI12%L	25	16	19	KS-35065-T	KW-T15	KSI □ 12 % □ □	

# KSI 12 Y-axis Cutting Heads



## Processing Application



Type	Size			Accessories		Corresponding Insert	With Inner Cooling
	L	H	F	Screw	Wrench		
QCMT12-Y-KSI12%/-JCT-P	20	12	16	KS-35065-T	KW-T15	KSI□12%□□	
QCMT12-Y-KSI12%	20	12	16	KS-35065-T	KW-T15	KSI□12%□□	

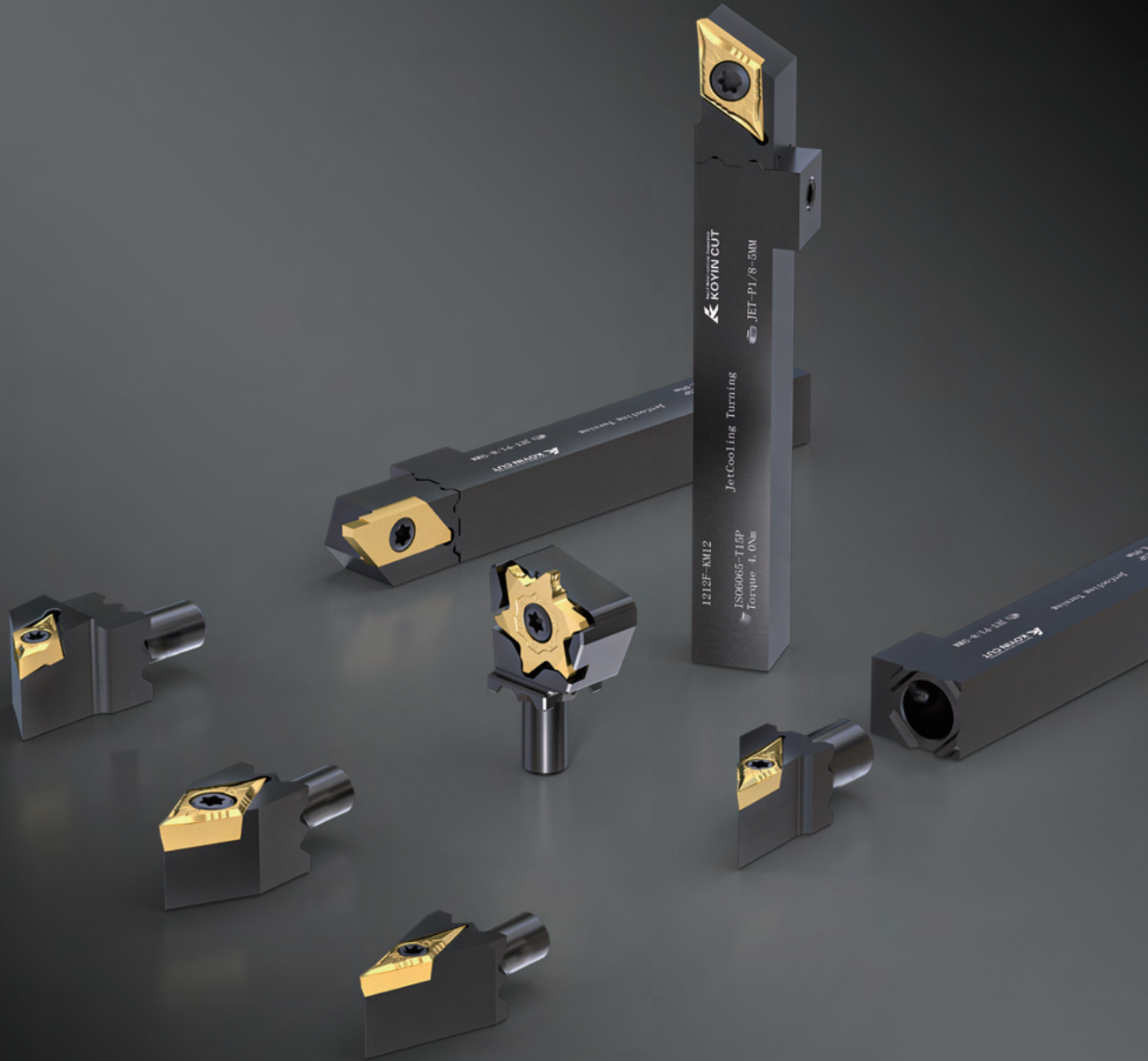
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**KOYIN CUT**  
OPTIMIZE YOUR PRODUCTIVITY

**KM SERIES**

KM Economical Quick Change Modular Turning Tools



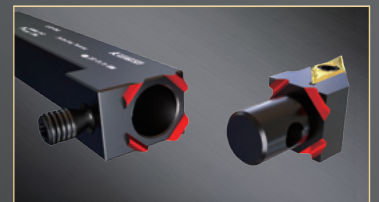
Change Modular Turning Tools  
KM Economical Quick

### FEATURES AND ADVANTAGES

- By splitting the head and holder, one holder for multiple cutting heads according to need becomes possible
- Self-alignment and positioning, fast changeover and assembly

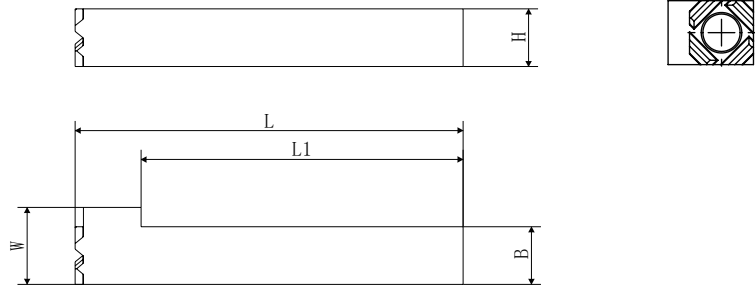
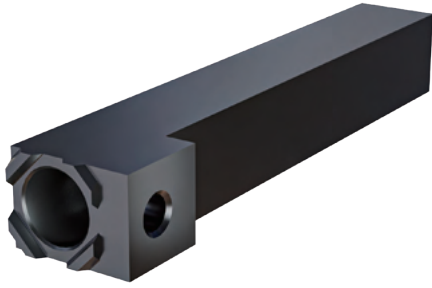


Splitted Structure Design



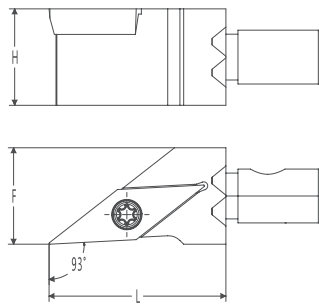
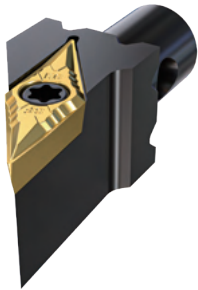
V-shape Locating Slots

## Turning-Modular Tool Holders

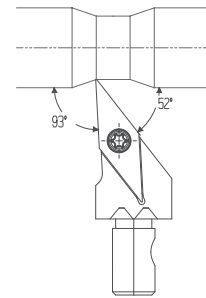


Type	Size					Accessories	
	H	B	W	L	L1	Screw	Wrench
KM10-1012F	10	12	16	80	67	KS-5007-TS-IP	KW-IP10
KM12-1212F	12	12	16	80	67	KS-5007-TS-IP	KW-IP10
KM12-1212H	12	12	16	100	87	KS-5007-TS-IP	KW-IP10
KM16-1616F	16	16	19	80	67	KS-6009-HS-P0.75	KW-LH3
KM16-1616H	16	16	19	100	87	KS-6009-HS-P0.75	KW-LH3

## V-shape Cutting Heads

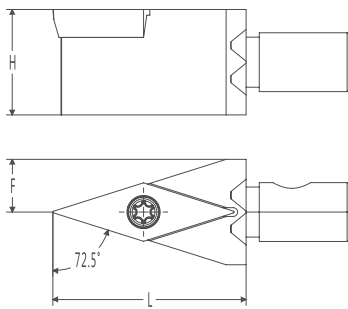


Processing Application

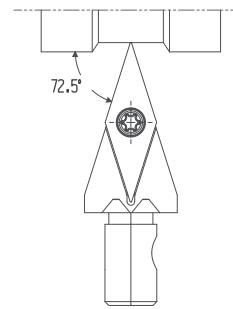


Type	Size			Accessories		Corresponding Insert
	L	H	F	Screw	Wrench	
KM10-SVJB <sup>90°</sup> -11	22	10	12	KS-2503-T	KW-T8	VB□□1103□□
KM12-SVJB <sup>90°</sup> -11	22	12	12	KS-2503-T	KW-T8	VB□□1103□□
KM16-SVJB <sup>90°</sup> -11	23	16	19	KS-2503-T	KW-T8	VB□□1103□□
KM10-SVJC <sup>90°</sup> -11	22	10	12	KS-2503-T	KW-T8	VC□□1103□□
KM12-SVJC <sup>90°</sup> -11	22	12	12	KS-2503-T	KW-T8	VC□□1103□□
KM16-SVJC <sup>90°</sup> -11	23	16	19	KS-2503-T	KW-T8	VC□□1103□□
KM10-SVJP <sup>90°</sup> -11	22	10	12	KS-2503-T	KW-T8	VP□□1103□□
KM12-SVJP <sup>90°</sup> -11	22	12	12	KS-2503-T	KW-T8	VP□□1103□□
KM16-SVJP <sup>90°</sup> -11	23	16	19	KS-2503-T	KW-T8	VP□□1103□□

# V-shape Cutting Heads

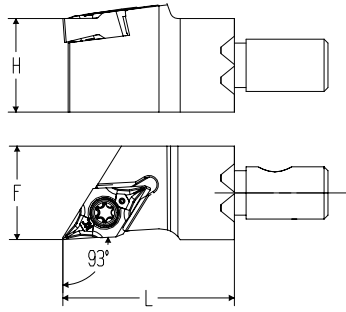
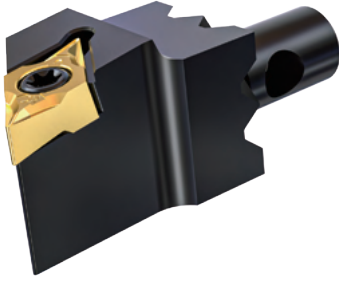


Processing Application

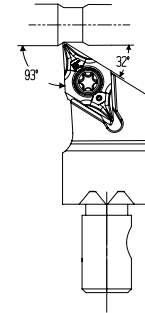


Type	Size			Accessories		Corresponding Insert
	L	H	F	Screw	Wrench	
KM10-SVVBN-11	22	10	6	KS-2503-T	KW-T8	VB□□1103□□
KM12-SVVBN-11	22	12	6	KS-2503-T	KW-T8	VB□□1103□□
KM16-SVVBN-11	23	16	8	KS-2503-T	KW-T8	VB□□1103□□
KM10-SVVCN-11	22	10	6	KS-2503-T	KW-T8	VC□□1103□□
KM12-SVVCN-11	22	12	6	KS-2503-T	KW-T8	VC□□1103□□
KM16-SVVCN-11	23	16	8	KS-2503-T	KW-T8	VC□□1103□□

## KDC Cutting Heads

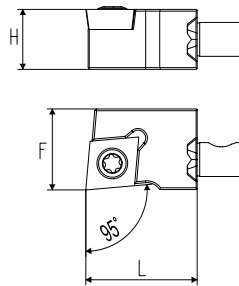
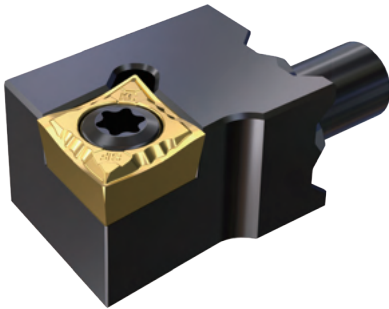


Processing Application

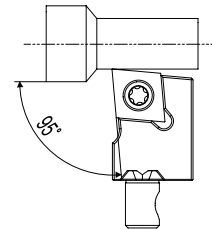


Type	Size			Accessories		Corresponding Insert
	L	H	F	Screw	Wrenth	
KM10-SDJXR-07	22	10	12	KS-2504-T	KW-T8	DXGU 0703□□R-TF
KM12-SDJXR-07	22	12	12	KS-2504-T	KW-T8	DXGU 0703□□R-TF
KM16-SDJXR-07	23	16	19	KS-2504-T	KW-T8	DXGU 0703□□R-TF

## D-shape Cutting Heads

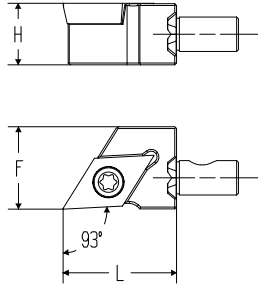
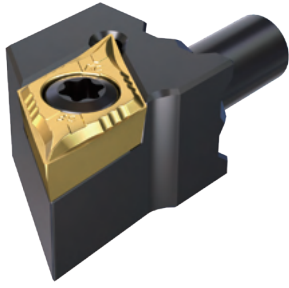


Processing Application

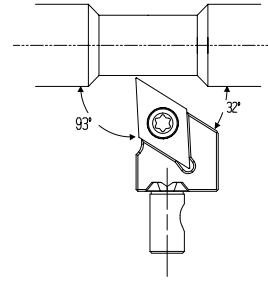


Type	Size			Accessories		Corresponding Insert
	L	H	F	Screw	Wrenth	
KM10-SCLC%l -09	22	10	16	KS-4008-T	KW-T15	CC□□09T3□□
KM12-SCLC%l -09	22	12	16	KS-4008-T	KW-T15	CC□□09T3□□
KM16-SCLC%l -09	23	16	19	KS-4008-T	KW-T15	CC□□09T3□□

## D-shape Cutting Heads



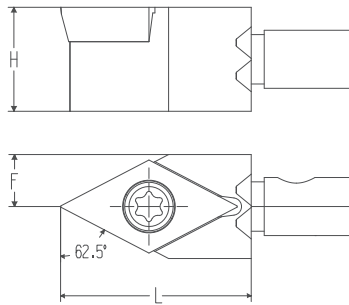
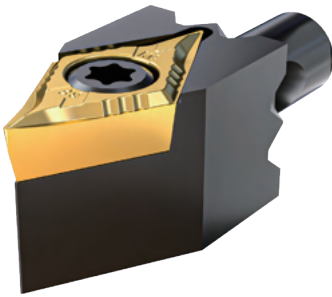
Processing Application



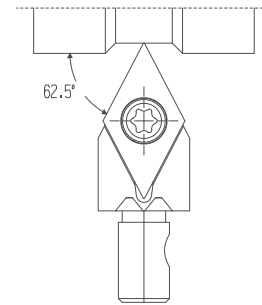
Type	Size			Accessories		Corresponding Insert
	L	H	F	Screw	Wrenth	
KM10-SDJC <sup>®</sup> L -11	22	10	16	KS-4008-T	KW-T15	DC□□11T3□□
KM12-SDJC <sup>®</sup> L -11	22	12	16	KS-4008-T	KW-T15	DC□□11T3□□
KM16-SDJC <sup>®</sup> L -11	23	16	19	KS-4008-T	KW-T15	DC□□11T3□□

Change Modular Turning Tools  
KM Economical Quick

## D-shape Cutting Heads

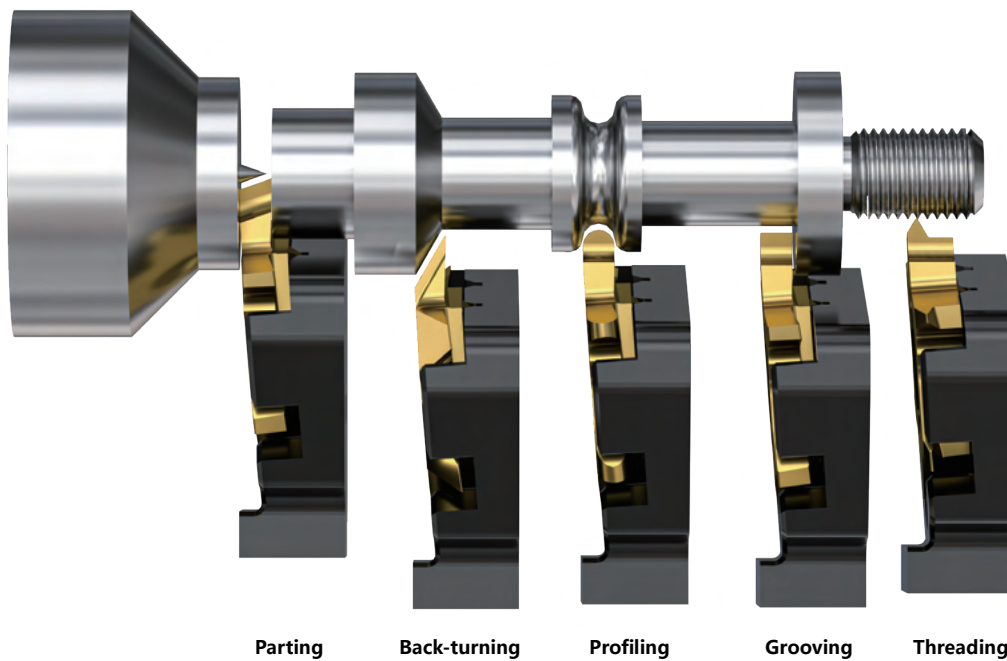


Processing Application



Type	Size			Accessories		Corresponding Insert
	L	H	F	Screw	Wrenth	
KM10-SDNCN -11	22	10	6	KS-4008-T	KW-T15	DC□□11T3□□
KM12-SDNCN -11	22	12	6	KS-4008-T	KW-T15	DC□□11T3□□
KM16-SDNCN -11	23	16	8	KS-4008-T	KW-T15	DC□□11T3□□

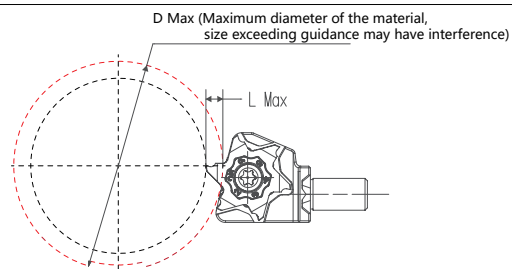
# Processing Application of KX618



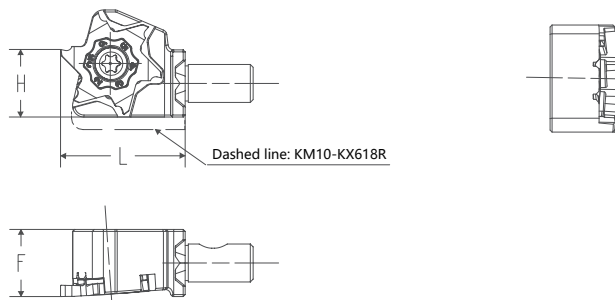
● **Notice**

1. Maximum diameter of parting is 7mm
2. Maximum groove depth is 3.5mm, groove depth varies according to the diameter of the material, please refer to the figure below

<b>Dmax</b>	32	42	51	65	100
<b>Lmax</b>	3.5	3.3	3.2	3.0	2.5



## KX618 Cutting Heads



Type	Size			Accessories		Corresponding Insert
	L	H	F	Screw	Wrenth	
KM10-KX618R	22	10	12	KS-4008-T	KW-T15	KX618□R□□
KM12-KX618R	22	12	12	KS-4008-T	KW-T15	KX618□R□□
KM16-KX618R	23	19	16	KS-4008-T	KW-T15	KX618□R□□

KX618 Cutting Head  
Change Module Number Tools

Scan QR code to watch the videos



reddot winner 2025

The 2025 German Red Dot Product Design Award Winner

**KXE** STABLE CLAMPING SIX HEADS INSERTS



- Six effective cutting edges are more economical
- Embedded positioning slot installation is more stable
- A wide variety of tool types (grooving, parting, back turning, threading, interpolating)
- Multiple functional insert types can be fitted in with the same toolholder

Six Heads Inserts  
KXE18 Stable Clamping

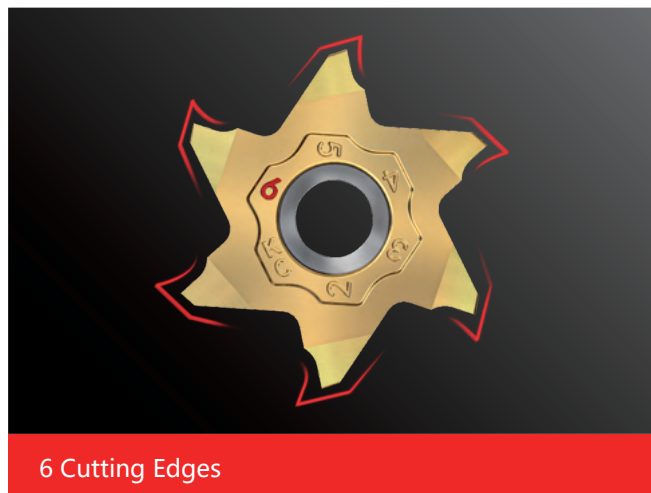
# KX618

## Stable clamping 6 heads series



### FEATURES AND ADVANTAGES

KX618 Stable Clamping  
Six Heads Inserts



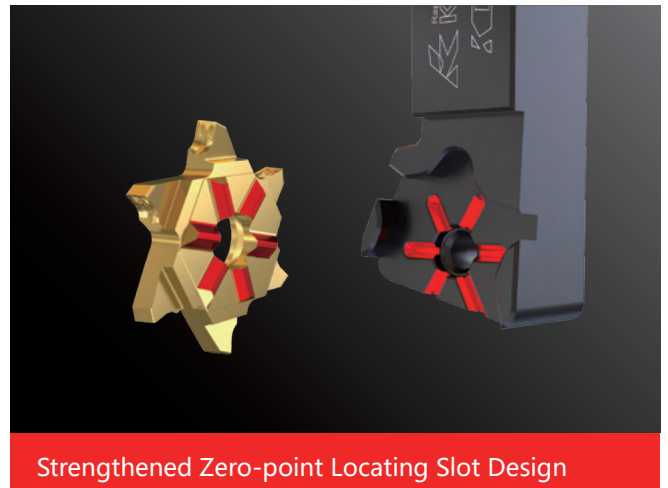
6 Cutting Edges

Much economical as its cutting edges are as twice as triangular inserts



Multiple Tools for Different Purposes

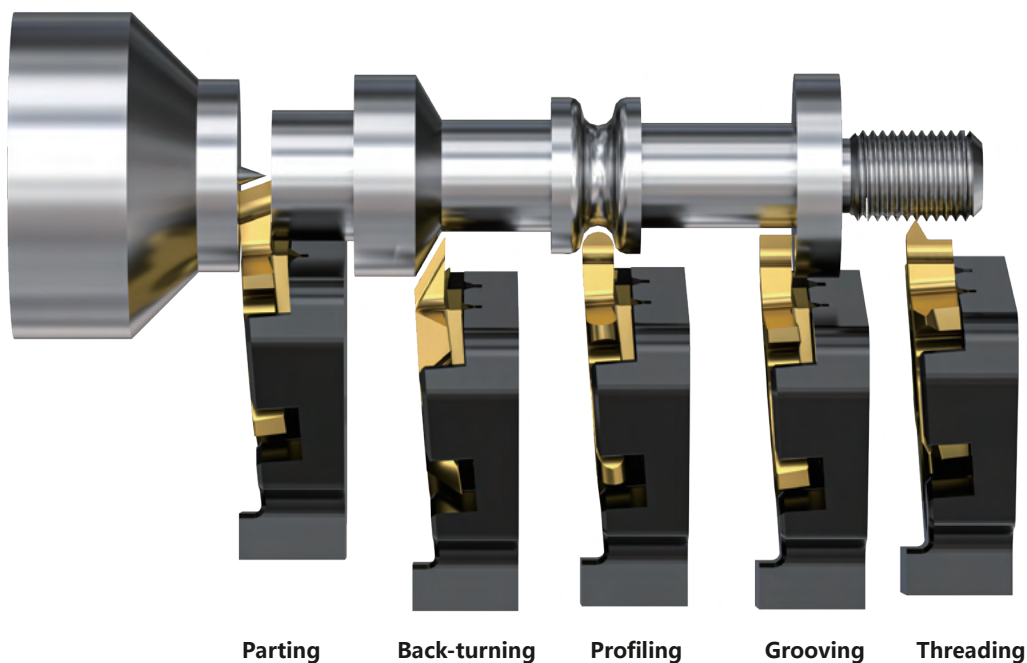
Available with grooving, threading, back-turning, parting, arc grooving and etc



Strengthened Zero-point Locating Slot Design

\*\* Shape locating slots make the clamping the machining more stable

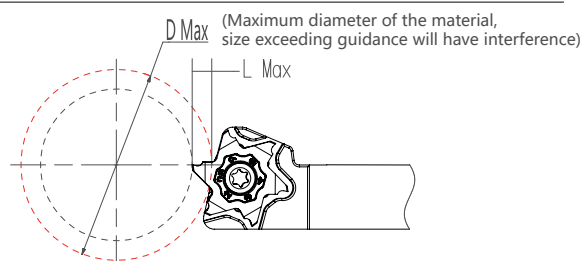
## Processing Application



● Notice

1. Maximum diameter of parting is 7MM
2. Maximum groove depth is 3.5mm, groove depth varies according to the diameter of the material, please refer to the figure below

<b>Dmax</b>	32	42	51	65	100
<b>Lmax</b>	3.5	3.3	3.2	3.0	2.5



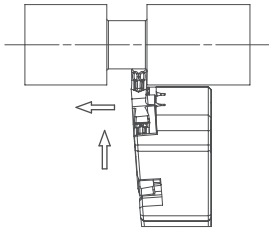
### Symbols of KX618 Grooving Tools

	GT: Side Grooving Tools		025: 0.25	250: 2.5	035: R0.35	N/A: Strengthened Edge	
KX618: KX618 Series	G: Grooving Tools	R: Right Handed	125: 1.25	300: 3.0	005: R0.05	F: Sharpened Edge	
						E: Passivated Edge	GM: Groove Profile
Series	Insert Type	Insert Direction	Edge Width	Effective Cutting Depth	Nose Radius	Edge Treatments	
KX618	G	R	125	300	005	F	GM

# GM Super Cutter

**New**

Application Examples



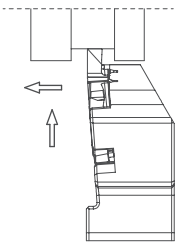
◆ Recommended  
 ◆ Suitable  
 ◇ Applicable

P	Soft Steel	◆	◇	◆		◆	◆				
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆				
M	Austenitic	◆	◆	◆	◆	◆	◆				
	Martensitic	◇	◆	◆	◆	◆	◆				
K	Grey Cast Iron					◇					
	Ductile Cast Iron					◇					
N	Nonferrous									◆	◆
S	Heat Resisting Alloy					◆	◆	◆	◆		
	Titanium Alloy					◆	◆	◆	◆		
H	Hardened Materials					◆					

Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide
		W	L	R	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX618GTR 150-350-005-GM	1.5	3.5	0.05		●	●					
	KX618GTR 150-350-010-GM	1.5	3.5	0.1		●	●					
	KX618GTR 150-350-020-GM	1.5	3.5	0.2		●	●					
	KX618GTR 200-350-010-GM	2	3.5	0.1		●	●					
	KX618GTR 200-350-020-GM	2	3.5	0.2		●	●					

# GTR Side Grooving Tools

Application Examples



◆ Recommended  
 ◆ Suitable  
 ◇ Applicable

P	Soft Steel	◆	◇	◆		◆	◆				
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆				
M	Austenitic	◆	◆	◆	◆	◆	◆				
	Martensitic	◇	◆	◆	◆	◆	◆				
K	Grey Cast Iron						◇				
	Ductile Cast Iron						◇				
N	Nonferrous									◆	◆
S	Heat Resisting Alloy					◆	◆	◆	◆		
	Titanium Alloy					◆	◆	◆	◆		
H	Hardened Materials						◆				

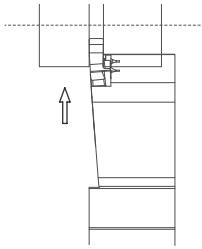
Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide
		W	L	R	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX618GTR 100-250-005	1	2.5	0.05		●	●					
	KX618GTR 100-250-010	1	2.5	0.1		●	●					
	KX618GTR 125-300-010	1.25	3	0.1		●	●					
	KX618GTR 150-350-010	1.5	3.5	0.1		●	●					
	KX618GTR 150-350-020	1.5	3.5	0.2		●	●					
	KX618GTR 175-350-010	1.75	3.5	0.1		●	●					
	KX618GTR 175-350-020	1.75	3.5	0.2		●	●					
	KX618GTR 200-350-010	2	3.5	0.1		●	●					
	KX618GTR 200-350-020	2	3.5	0.2		●	●					

Grades: ◆ Recommended ◆ Suitable ◇ Applicable ● Standard Stock

KX618 Stable Clamping Six Heads Inserts

# GR Grooving Tools

Application Examples

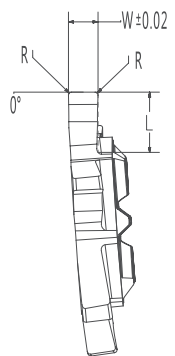


Recommended Suitable Applicable	P	Soft Steel	◆	◇	◆		◆	◆				
		Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆				
	M	Austenitic	◆	◆	◆		◆	◆				
		Martensitic	◇	◆	◆		◆	◆				
	K	Grey Cast Iron			◇							
		Ductile Cast Iron			◇							
	N	Nonferrous								◆	◆	
	S	Heat Resisting Alloy		◆	◆		◆	◆				
		Titanium Alloy		◆	◆		◆	◆				
	H	Hardened Materials			◆							

Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide
		W	L	R	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KGP10P	KCN10D	KCN10
	KX618GR 050-150-005	0.5	1.5	0.05		●	●					
	KX618GR 060-150-005	0.6	1.5	0.05		●	●					
	KX618GR 070-150-005	0.7	1.5	0.05		●	●					
	KX618GR 075-150-005	0.75	1.5	0.05		●	●					
	KX618GR 070-200-005	0.7	2.0	0.05		●	●					
	KX618GR 075-200-005	0.75	2.0	0.05		●	●					
	KX618GR 080-200-005	0.8	2.0	0.05		●	●					
	KX618GR 090-200-005	0.9	2.0	0.05		●	●					
	KX618GR 100-200-005	1.0	2.0	0.05		●	●					
	KX618GR 100-200-010	1.0	2.0	0.1		●	●					
	KX618GR 110-200-005	1.1	2.0	0.05		●	●					
	KX618GR 110-200-010	1.1	2.0	0.1		●	●					
	KX618GR 120-200-005	1.2	2.0	0.05		●	●					
	KX618GR 120-200-010	1.2	2.0	0.1		●	●					
	KX618GR 125-200-005	1.25	2.0	0.05		●	●					
	KX618GR 125-200-005F <small>NEW</small>	1.25	2.0	0.05		●	●					
	KX618GR 125-200-010	1.25	2.0	0.1		●	●					
	KX618GR 130-200-010	1.3	2.0	0.1		●	●					
	KX618GR 130-200-020	1.3	2.0	0.2		●	●					
	KX618GR 140-200-010	1.4	2.0	0.1		●	●					
	KX618GR 140-200-020	1.4	2.0	0.2		●	●					
	KX618GR 150-200-010	1.5	2.0	0.1		●	●					
	KX618GR 150-200-010F <small>NEW</small>	1.5	2.0	0.1		●	●					
	KX618GR 150-200-020	1.5	2.0	0.2		●	●					
	KX618GR 160-200-010	1.6	2.0	0.1		●	●					
	KX618GR 160-200-020	1.6	2.0	0.2		●	●					
	KX618GR 170-200-010	1.7	2.0	0.1		●	●					
	KX618GR 170-200-020	1.7	2.0	0.2		●	●					
	KX618GR 175-200-010	1.75	2.0	0.1		●	●					
	KX618GR 175-200-010F <small>NEW</small>	1.75	2.0	0.1		●	●					
	KX618GR 175-200-020	1.75	2.0	0.2		●	●					
	KX618GR 100-300-005	1.0	3.0	0.05		●	●					
	KX618GR 100-300-005F <small>NEW</small>	1.0	3.0	0.05		●	●					
	KX618GR 100-300-010	1.0	3.0	0.1		●	●					
	KX618GR 100-300-010E <small>NEW</small>	1.0	3.0	0.1		●	●					
	KX618GR 110-300-005	1.1	3.0	0.05		●	●					
	KX618GR 110-300-010	1.1	3.0	0.1		●	●					
	KX618GR 120-300-005	1.2	3.0	0.05		●	●					
	KX618GR 120-300-010	1.2	3.0	0.1		●	●					
	KX618GR 125-300-005	1.25	3.0	0.05		●	●					
	KX618GR 125-300-005F <small>NEW</small>	1.25	3.0	0.05		●	●					
	KX618GR 125-300-010	1.25	3.0	0.1		●	●					
	KX618GR 125-300-010E <small>NEW</small>	1.25	3.0	0.1		●	●					
	KX618GR 130-300-010	1.3	3.0	0.1		●	●					
	KX618GR 130-300-020	1.3	3.0	0.2		●	●					
	KX618GR 140-300-010	1.4	3.0	0.1		●	●					
	KX618GR 140-300-020	1.4	3.0	0.2		●	●					
	KX618GR 150-300-010	1.5	3.0	0.1		●	●					
	KX618GR 150-300-010F <small>NEW</small>	1.5	3.0	0.1		●	●					
	KX618GR 150-300-020	1.5	3.0	0.2		●	●					
	KX618GR 150-300-020E <small>NEW</small>	1.5	3.0	0.2		●	●					
	KX618GR 160-300-010	1.6	3.0	0.1		●	●					
	KX618GR 160-300-020	1.6	3.0	0.2		●	●					

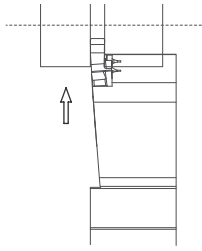
Grades: ◆ Recommended ◇ Suitable ◇ Applicable ● Standard Stock

Six-Flange Inserts  
KX618 Stable Clamping



# GR Grooving Tools

Application Examples



Recommended  Suitable  Applicable	P	Soft Steel	◆	◇	◇	◆	◆	◆	◆	◆	◆	◆
		Carbon Steel/ Alloy Steel	◆	◇	◇	◆	◆	◆	◆	◆	◆	◆
	M	Austenitic	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
		Martensitic	◇	◆	◆	◆	◆	◆	◆	◆	◆	◆
	K	Grey Cast Iron				◇						
		Ductile Cast Iron				◇						
	N	Nonferrous									◆	◆
	S	Heat Resisting Alloy		◆	◆	◆	◆	◆	◆	◆	◆	◆
	Titanium Alloy		◆	◆	◆	◆	◆	◆	◆	◆	◆	
H	Hardened Materials				◆							

Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide
		W	L	R	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX618GR 170-300-010	1.7	3.0	0.1		●	●					
	KX618GR 170-300-020	1.7	3.0	0.2		●	●					
	KX618GR 175-300-010	1.75	3.0	0.1		●	●					
	KX618GR 175-300-010F <small>New</small>	1.75	3.0	0.1		●	●					
	KX618GR 175-300-010E <small>New</small>	1.75	3.0	0.1		●	●					
	KX618GR 175-300-020	1.75	3.0	0.2		●	●					
	KX618GR 180-300-010	1.8	3.0	0.1		●	●					
	KX618GR 180-300-020	1.8	3.0	0.2		●	●					
	KX618GR 190-300-010	1.9	3.0	0.1		●	●					
	KX618GR 190-300-020	1.9	3.0	0.2		●	●					
	KX618GR 200-300-010	2.0	3.0	0.1		●	●					
	KX618GR 200-300-010F <small>New</small>	2.0	3.0	0.1		●	●					
	KX618GR 200-300-020	2.0	3.0	0.2		●	●					
	KX618GR 200-300-020E <small>New</small>	2.0	3.0	0.2		●	●					
	KX618GR 210-300-010	2.1	3.0	0.1		●	●					
	KX618GR 210-300-020	2.1	3.0	0.2		●	●					
	KX618GR 220-300-010	2.2	3.0	0.1		●	●					
	KX618GR 220-300-020	2.2	3.0	0.2		●	●					
	KX618GR 230-300-010	2.3	3.0	0.1		●	●					
	KX618GR 230-300-020	2.3	3.0	0.2		●	●					
	KX618GR 240-300-010	2.4	3.0	0.1		●	●					
	KX618GR 240-300-020	2.4	3.0	0.2		●	●					
	KX618GR 250-300-010	2.5	3.0	0.1		●	●					
	KX618GR 250-300-010F <small>New</small>	2.5	3.0	0.1		●	●					
	KX618GR 250-300-020	2.5	3.0	0.2		●	●					
	KX618GR 150-350-010	1.5	3.5	0.1		●	●					
	KX618GR 150-350-010F <small>New</small>	1.5	3.5	0.1		●	●					
	KX618GR 150-350-020	1.5	3.5	0.2		●	●					
	KX618GR 150-350-020E <small>New</small>	1.5	3.5	0.2		●	●					
	KX618GR 160-350-010	1.6	3.5	0.1		●	●					
	KX618GR 160-350-020	1.6	3.5	0.2		●	●					
	KX618GR 170-350-010	1.7	3.5	0.1		●	●					
	KX618GR 170-350-020	1.7	3.5	0.2		●	●					
	KX618GR 175-350-010	1.75	3.5	0.1		●	●					
	KX618GR 175-350-010F <small>New</small>	1.75	3.5	0.1		●	●					
	KX618GR 175-350-020	1.75	3.5	0.2		●	●					
	KX618GR 175-350-020E <small>New</small>	1.75	3.5	0.2		●	●					
	KX618GR 180-350-010	1.8	3.5	0.1		●	●					
	KX618GR 180-350-020	1.8	3.5	0.2		●	●					
	KX618GR 190-350-010	1.9	3.5	0.1		●	●					
	KX618GR 190-350-020	1.9	3.5	0.2		●	●					
	KX618GR 200-350-010	2.0	3.5	0.1		●	●					
	KX618GR 200-350-010F <small>New</small>	2.0	3.5	0.1		●	●					
	KX618GR 200-350-020	2.0	3.5	0.2		●	●					
	KX618GR 200-350-020E <small>New</small>	2.0	3.5	0.2		●	●					
KX618GR 210-350-010	2.1	3.5	0.1		●	●						
KX618GR 210-350-020	2.1	3.5	0.2		●	●						
KX618GR 220-350-010	2.2	3.5	0.1		●	●						
KX618GR 220-350-020	2.2	3.5	0.2		●	●						
KX618GR 230-350-010	2.3	3.5	0.1		●	●						
KX618GR 230-350-020	2.3	3.5	0.2		●	●						
KX618GR 240-350-010	2.4	3.5	0.1		●	●						
KX618GR 240-350-020	2.4	3.5	0.2		●	●						
KX618GR 250-350-010	2.5	3.5	0.1		●	●						
KX618GR 250-350-010F <small>New</small>	2.5	3.5	0.1		●	●						
KX618GR 250-350-020	2.5	3.5	0.2		●	●						
KX618GR 250-350-020E <small>New</small>	2.5	3.5	0.2		●	●						

Grades: ◆ Recommended   ◆ Suitable   ◇ Applicable   ● Standard Stock

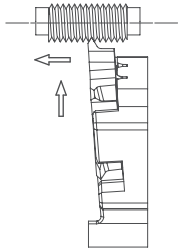
KX618 Stable Clamping Six Heads Inserts

# Symbols of KX618 Threading Tools

KX618: KX618 Series	T: Threading Tools	R: Right Handed	040: 0.4	A: Left				005: R0.05
			080: 0.8	B: Right		55: 55°		010: R0.1
			125: 1.25	N: Central		60: 60°		020: R0.2
Series	Insert Type	Insert Direction	Tip Width	Blade Shape	-	Thread Angle	-	Nose Radius
<b>KX618</b>	<b>T</b>	<b>R</b>	<b>125</b>	<b>A</b>	<b>-</b>	<b>60</b>	<b>-</b>	<b>005</b>

## TR Threading Tools

Application Examples



◆ Recommended

◊ Suitable

◇ Applicable

P	Soft Steel	◆	◇	◆		◆	◆						
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆						
M	Austenitic	◆	◆	◆	◆	◆							
	Martensitic	◇	◆	◆	◆	◆							
K	Grey Cast Iron					◇							
	Ductile Cast Iron					◇							
N	Nonferrous											◆	◆
S	Heat Resisting Alloy					◆	◆	◆	◆				
	Titanium Alloy					◆	◆	◆	◆				
H	Hardened Materials							◆					

Shape Right Handed Tool	Type	Size					Carbide with PVD Coating							Carbide	
		F	A	R	Pitch (mm)	Teeth /inch	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10	
<p>A Type</p>	KX618TR 040-A-60-005	0.4	60°	0.05	0.2-0.75	127-34		●	●						
	KX618TR 040-A-60-010	0.4	60°	0.1	0.2-0.75	127-34		●	●						
	KX618TR 040-A-60-020	0.4	60°	0.2	0.2-0.75	127-34		●	●						
	KX618TR 080-A-60-005	0.8	60°	0.05	0.4-1.25	63-21		●	●						
	KX618TR 080-A-60-010	0.8	60°	0.1	0.4-1.25	63-21		●	●						
	KX618TR 080-A-60-020	0.8	60°	0.2	0.4-1.25	63-21		●	●						
	KX618TR 080-A-55-005	0.8	55°	0.05		40-16		●	●						
	KX618TR 080-A-55-010	0.8	55°	0.1		24-20		●	●						
<p>B Type</p>	KX618TR 040-B-60-005	0.4	60°	0.05	0.2-0.75	127-34		●	●						
	KX618TR 040-B-60-010	0.4	60°	0.1	0.2-0.75	127-34		●	●						
	KX618TR 040-B-60-020	0.4	60°	0.2	0.2-0.75	127-34		●	●						
	KX618TR 080-B-60-005	0.8	60°	0.05	0.4-1.25	63-21		●	●						
	KX618TR 080-B-60-010	0.8	60°	0.1	0.4-1.25	63-21		●	●						
	KX618TR 080-B-60-020	0.8	60°	0.2	0.4-1.25	63-21		●	●						
	KX618TR 080-B-55-005	0.8	55°	0.05		40-16		●	●						
	KX618TR 080-B-55-010	0.8	55°	0.1		24-20		●	●						
<p>N Type</p>	KX618TR 125-N-60-015	1.25	60°	0.15	1.0-1.25	25-17		●	●						
	KX618TR 125-N-60-020	1.25	60°	0.2	1.0-1.25	25-17		●	●						
	KX618TR 125-N-55-015	1.25	55°	0.15		20-11		●	●						

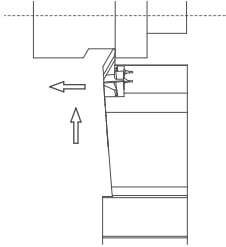
Grades: ◆ Recommended ◊ Suitable ◇ Applicable ● Standard Stock

## Symbols of KX618 Back-turning Tools

KX618: KX618 Series	B: Back-turning	R: Right Handed	005: R0.05	With Chipbreaking Slot	N/A: Strengthened Edge
			010: R0.1		F: Sharpened Edge
			015: R0.15		E: Passivated Edge
Series	Insert Type	Insert Direction	Nose Radius	With Chipbreaking Slot	Edge Treatments
<b>KX618</b>	<b>B</b>	<b>R</b>	<b>005</b>	<b>S</b>	<b>F</b>

## TB Back-turning Tools

Application Examples


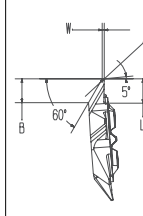


◆ Recommended

◇ Suitable

◇ Applicable

P	Soft Steel	◆	◇	◆		◆	◆		
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆		
M	Austenitic	◆	◆	◆	◆	◆			
	Martensitic	◇	◆	◆	◆	◆			
K	Grey Cast Iron			◇					
	Ductile Cast Iron			◇					
N	Nonferrous							◆	◆
S	Heat Resisting Alloy			◆	◆	◆	◆		
	Titanium Alloy			◆	◆	◆	◆		
H	Hardened Materials					◆			

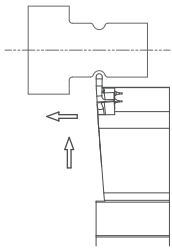
Shape Right Handed Tool	Type	Size				Carbide with PVD Coating						Carbide	
		W	L	R	B	KPM30N	KXM15S	KHST10M	KMS20	KMST15C	KCP10P	KCN10D	KCN10
 	KX618BR 005-S	0.3	3.5	<0.05	3.5		●	●					
	KX618BR 010-S	0.3	3.5	<0.1	3.5		●	●					
	KX618BR 015-S	0.3	3.5	<0.15	3.5		●	●					
	KX618BR 020-SE <i>New</i>	0.3	3.5	<0.2	3.5		●	●					

## Symbols of KX618 Circular Grooving Tools

KX618: KX618 Series	R: Circular Grooving Tools	R: Right Handed	050: R0.5 125: R1.25	-	150: 1.5 200: 2.0 350: 3.5
Series	Insert Type	Insert Direction	Nose Radius	-	Effective Cutting Depth
<b>KX618</b>	<b>R</b>	<b>R</b>	<b>050</b>	<b>-</b>	<b>200</b>

## RR Circular Grooving Tools

Application Examples



◆ Recommended

◇ Suitable

◇ Applicable

Material	P	M	K	N	S	H	Size				Carbide with PVD Coating				Carbide	
							W	L	R	KPM30N	KXM15S	KH510M	KMS20	KMS15C	KCP10P	KCN10D
Soft Steel	◆	◆	◆	◆	◆	◆					●	●				
Carbon Steel/ Alloy Steel	◆	◆	◆	◆	◆	◆					●	●				
Austenitic	◆	◆	◆	◆	◆	◆					●	●				
Martensitic	◇	◆	◆	◆	◆	◆					●	●				
Grey Cast Iron																
Ductile Cast Iron																
Nonferrous															◆	◆
Heat Resisting Alloy											◆	◆	◆	◆		
Titanium Alloy											◆	◆	◆	◆		
Hardened Materials											◆					

Shape Right Handed Tool	Type	Size			Carbide with PVD Coating						Carbide	
		W	L	R	KPM30N	KXM15S	KH510M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX618RR 035-150	0.7	1.5	0.35		●	●					
	KX618RR 050-200	1.0	2.0	0.5		●	●					
	KX618RR 060-200	1.2	2.0	0.6		●	●					
	KX618RR 075-350	1.5	3.5	0.75		●	●					
	KX618RR 100-350	2.0	3.5	1.0		●	●					
	KX618RR 125-350	2.5	3.5	1.25		●	●					

Grades: ◆ Recommended ◇ Suitable ◇ Applicable ● Standard Stock

## Symbols of KX618 Flat Parting Tools

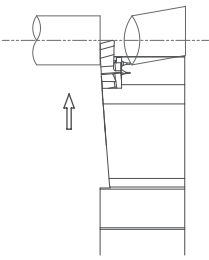
KX618: KX618 Series	C: Parting Tools	R: Right Handed	050: 0.5 125: 1.25	-	S: R0.03-R0.05 P: R0.08	N/A: Strengthened Edge F: Sharpened Edge E: Passivated Edge
Series	Parting Tools	Insert Direction	Edge Width	-	Nose Radius	Edge Treatments
<b>KX618</b>	<b>C</b>	<b>R</b>	<b>125</b>	<b>-</b>	<b>S</b>	<b>F</b>

## Symbols of KX618 Parting Tools With Lead Angle








KX618: KX618 Series	C: Parting Tools	R: Right Handed	050: 0.5 125: 1.25	20D: 20° 16D: 16° 11D: 11°	R: With Right Tead Angle L: With Left Lead Angle	N: Without Chipbreaking Slot and Nose Radius S: R0.03-R0.05 P: R0.08	N/A: Strengthened Edge F: Sharpened Edge E: Passivated Edge
Series	Insert Type	Insert Direction	Edge Width	Lead Angle	Lead Direction	Nose Radius/other	Edge Treatments
<b>KX618</b>	<b>C</b>	<b>R</b>	<b>125</b>	<b>16D</b>	<b>R</b>	<b>S</b>	<b>F</b>

# CR Parting Tools

## Application Examples



Recommended  Suitable  Applicable	P	Soft Steel	◆	◇	◇		◆	◆						
		Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆						
	M	Austenitic	◆	◆	◆		◆	◆						
		Martensitic	◇	◆	◆		◆	◆						
	K	Grey Cast Iron					◇							
		Ductile Cast Iron					◇							
	N	Nonferrous										◆	◆	
	S	Heat Resisting Alloy					◆	◆	◆	◆				
		Titanium Alloy					◆	◆	◆	◆				
	H	Hardened Materials						◆						

Shape Right Handed Tool	Type	Size				Carbide with PVD Coating							Carbide	
		W	Maximum Diameter of parting (DMax)	R	D	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10	
 flat	KX618CR 050-S	0.5	7	0.03-0.05	0°		●	●						
	KX618CR 070-S	0.7	7	0.03-0.05	0°		●	●						
	KX618CR 100-S	1.0	7	0.03-0.05	0°		●	●						
	KX618CR 125-S	1.25	7	0.03-0.05	0°		●	●						
	KX618CR 125-SE <b>New</b>	1.25	7	0.03-0.05	0°		●	●						
	KX618CR 150-S	1.5	7	0.03-0.05	0°		●	●						
 flat strengthened edge	KX618CR 100-P	1.0	3	0.08±0.01	0°		●	●						
	KX618CR 125-P	1.25	7	0.08±0.01	0°		●	●						
	KX618CR 125-PE <b>New</b>	1.25	7	0.08±0.01	0°		●	●						
	KX618CR 150-P	1.5	7	0.08±0.01	0°		●	●						
 with right lead angle	KX618CR 100-11DR-S	1.0	3	0.03-0.05	11°		●	●						
	KX618CR 125-11DR-S	1.25	7	0.03-0.05	11°		●	●						
	KX618CR 150-11DR-S	1.5	7	0.03-0.05	11°		●	●						
 with right lead angle strengthened edge	KX618CR 100-11DR-P	1.0	3	0.08±0.01	11°		●	●						
	KX618CR 125-11DR-P	1.25	7	0.08±0.01	11°		●	●						
	KX618CR 150-11DR-P	1.5	7	0.08±0.01	11°		●	●						
 with right lead angle	KX618CR 050-16DR-S	0.5	3	0.03-0.05	16°		●	●						
	KX618CR 070-16DR-S	0.7	3	0.03-0.05	16°		●	●						
	KX618CR 100-16DR-S	1.0	3	0.03-0.05	16°		●	●						
	KX618CR 125-16DR-S	1.25	7	0.03-0.05	16°		●	●						
	KX618CR 150-16DR-S	1.5	7	0.03-0.05	16°		●	●						
 with right lead angle strengthened edge	KX618CR 100-16DR-P	1.0	3	0.08±0.01	16°		●	●						
	KX618CR 125-16DR-P	1.25	7	0.08±0.01	16°		●	●						
	KX618CR 150-16DR-P	1.5	7	0.08±0.01	16°		●	●						
 with right lead angle without chipbreaking slot	KX618CR 070-20DR-N	0.7	3	0	20°		●	●						
	KX618CR 100-20DR-N	1.0	7	0	20°		●	●						
	KX618CR 125-20DR-N	1.25	7	0	20°		●	●						
	KX618CR 150-20DR-N	1.5	7	0	20°		●	●						

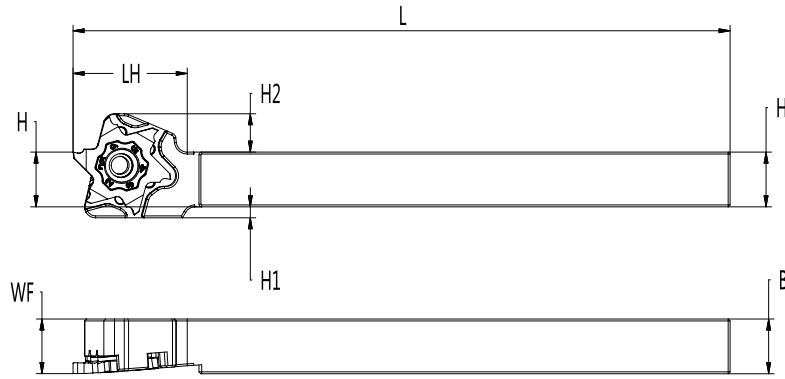
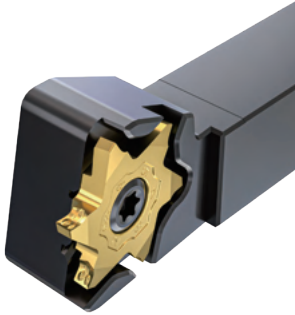
Grades: ◆ Recommended ◇ Suitable ◇ Applicable

● Standard Stock

## Symbols of KX618 Tool Holders

					M: 150
					JX: 120
					J: 110
					H: 100
KX618: KX618 Series	R: Right Handed				
<b>Series</b>	<b>Holder Direction</b>	<b>-</b>	<b>Tool Height</b>	<b>Tool Width</b>	<b>Tool Length</b>
<b>KX618</b>	<b>R</b>	<b>-</b>	<b>12</b>	<b>12</b>	<b>JX</b>

## KX618 Holders



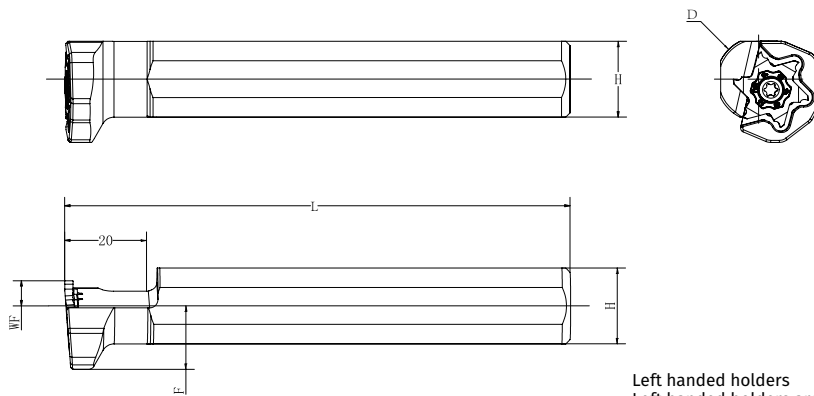
Right Handed Tool holder (R)

Type	Size(mm)							Accessories		Corresponding Insert
	H	B	L	LH	WF	H1	H2	Screw	Wrenth	
KX618R -1010JX	10	10	120	20	10	2	7	KS-4008-T	KW-T15	KX618□R □□□
KX618R -1212JX	12	12	120	20	12	0	7	KS-4008-T	KW-T15	KX618□R □□□
KX618R -1616JX	16	16	120	20	16	0	7	KS-4008-T	KW-T15	KX618□R □□□
KX618R -2020JX	20	20	120	20	20	0	7	KS-4008-T	KW-T15	KX618□R □□□
KX618R -2525M	25	25	150	20	25	0	7	KS-4008-T	KW-T15	KX618□R □□□

## S-KX618-F Holders

	14: Diameter 14						
	15: Diameter 15.875						
	16: Diameter 16						
	19: Diameter 19.05						
	20: Diameter 20	M: 150					
	22: Diameter 22	JX:120					
	25: Diameter 25	J: 110					
S: Screw Clamping	254: Diameter 25.4	H: 100		KX618: KX618 Series	L: Left Handed		F: For Turret Lathe
<b>Clamping Method</b>	<b>Diameter of Toolholders</b>	<b>Tool Length</b>	<b>-</b>	<b>Series</b>	<b>Holder Direction</b>	<b>-</b>	<b>others</b>
<b>S</b>	<b>20</b>	<b>JX</b>	<b>-</b>	<b>KX618</b>	<b>L</b>	<b>-</b>	<b>F</b>

## Tool Holder for S-KX618-F (collet holders for external machining)



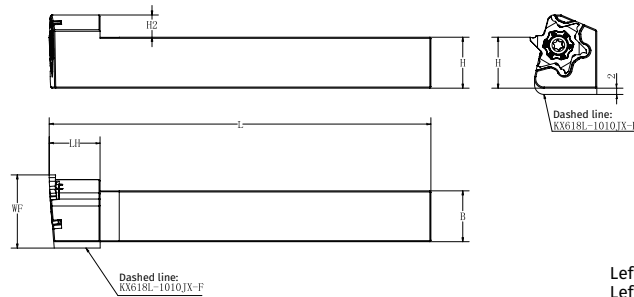
Left handed holders  
Left handed holders are for right hand inserts

Type	Size(mm)					Accessories		Corresponding Insert
	D	H	WF	L	F	Screw	Wrenth	
S14H-KX618L-F	14	13	6	100	15	KS-4008-T	KW-T15	KX618□R □□□
S16G-KX618L-F	16	15	6	95	15	KS-4008-T	KW-T15	KX618□R □□□
S19JX-KX618L-F	19.05	18	6	120	15	KS-4008-T	KW-T15	KX618□R □□□
S20JX-KX618L-F	20	19	6	120	15	KS-4008-T	KW-T15	KX618□R □□□
S22JX-KX618L-F	22	21	10	120	11	KS-4008-T	KW-T15	KX618□R □□□
S25H-KX618L-F	25	24	10	100	11	KS-4008-T	KW-T15	KX618□R □□□
S254JX-KX618L-F	25.4	24	10	120	11	KS-4008-T	KW-T15	KX618□R □□□

## Symbols of KX618-F

KX618: KX618 Series		L: left handed		JX: 120		F: for turret lathe	
				J: 110			
				H: 100			
Series	Holder Direction	-	Holder Height	Tool Width	Tool Length	-	Others
KX618	L	-	12	12	JX	-	F

## KX618-F Holders



Left handed holders  
Left handed holders are for right hand inserts

Type	Size(mm)						Accessories		Corresponding Insert
	H	B	L	LH	H2	WF	Screw	Wrench	
KX618L-1212JX-F	12	12	120	16	9	19	KS-4008-T	KW-T15	KX618□R □□□
KX618L-1616JX-F	16	16	120	16	9	21	KS-4008-T	KW-T15	KX618□R □□□
KX618L-2020JX-F	20	20	120	16	9	25	KS-4008-T	KW-T15	KX618□R □□□

## Recommend Parameters For Machining-KX618

GM Super Cutter		
Edge Width	Radial Feed f(mm/rev)	Parameters for Cross Feed
1.5-2.0	0.04-0.1	AP: W*0.5 f: 0.04-0.1

BR Back-turning Tools	
Cutting Depth Ap(mm)	Feeding Speed f(mm/rev)
0.05-3.5	0.02-0.08

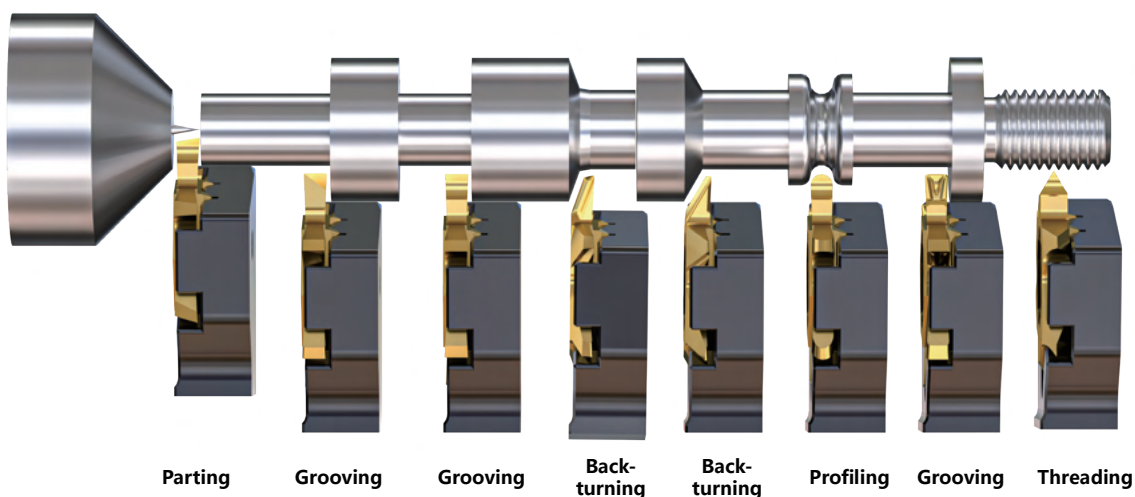
GTR Back-turning Tools		
Edge Width	Radial Feed f(mm/rev)	Parameters for Cross Feed
1.0-1.5	0.01-0.05	AP: W*0.2 f: 0.01-0.03
1.75-2.0	0.02-0.08	AP: W*0.2 f: 0.02-0.07

RR Circular Grooving Tools	
Edge Width	Feeding Speed f(mm/rev)
0.7-1.5	0.02-0.06
2.0-2.5	0.03-0.07

GR Grooving Tools	
Edge Width	Feeding Speed f(mm/rev)
0.5-1.2	0.02-0.06
1.25-2.5	0.02-0.07

CR Parting Tools	
Edge Width	Feeding Speed f(mm/rev)
0.5-1.0	0.008-0.04
1.25-1.5	0.015-0.06

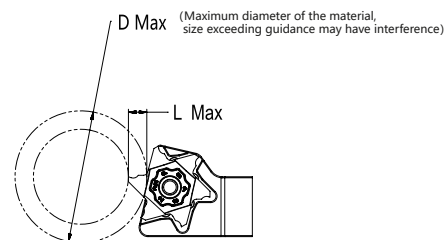
TR Threading Tools	
Type	Cutting Depth Ap(mm)
A-Type	0.02-0.05
B-Type	0.02-0.05
N-Type	0.03-0.08



● Notice

1. Maximum diameter of parting is 7MM
2. Maximum groove depth is 3.5mm, groove depth varies according to the diameter of the material, please refer to the figure below

<b>Dmax</b>	32	42	51	65	100
<b>Lmax</b>	6	5.8	5.7	5.6	5.1



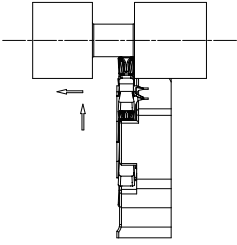
**Symbols of KX628 Grooving Tools**

	GT: Back-turning Tools		025: 0.25		250: 2.5		035: R0.35		
KX628: KX628 Series	G: Grooving Tools	R: Right Handed	125: 1.25		300: 3.0		005: R0.05		TM: Groove Profile
<b>Series</b>	<b>Insert Type</b>	<b>Insert Direction</b>	<b>Edge Width</b>	<b>-</b>	<b>Effective Cutting Depth</b>	<b>-</b>	<b>Nose Radius</b>	<b>-</b>	<b>TM</b>
<b>KX628</b>	<b>G</b>	<b>R</b>	<b>125</b>	<b>-</b>	<b>300</b>	<b>-</b>	<b>005</b>	<b>-</b>	<b>TM</b>

# TM Super Cutter

**New**

Application Examples



- ◆ Recommended
- ◊ Suitable
- ◇ Applicable

P	Soft Steel	◆	◇	◆		◆	◆					
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆					
M	Austenitic	◆	◆	◆	◆	◆						
	Martensitic	◇	◆	◆	◆	◆						
K	Grey Cast Iron					◇						
	Ductile Cast Iron					◇						
N	Nonferrous										◆	◆
S	Heat Resisting Alloy					◆	◆	◆	◆			
	Titanium Alloy					◆	◆	◆	◆			
H	Hardened Materials					◆						

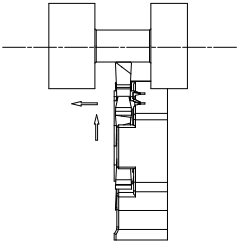
Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide
		W	L	R	KPM30N	KXM15S	KHST10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX628GTR 300-600-005-TM	3	6	0.05	●	●						
	KX628GTR 300-600-010-TM	3	6	0.1	●	●						
	KX628GTR 300-600-020-TM	3	6	0.2	●	●						
	KX628GTR 300-600-030-TM	3	6	0.3	●	●						
	KX628GTR 300-600-040-TM	3	6	0.4	●	●						

Six Fluted Inserts  
KX628 Stable Clamping

# GTR Back-turning Tools

**New**

Application Examples



- ◆ Recommended
- ◊ Suitable
- ◇ Applicable

P	Soft Steel	◆	◇	◆		◆	◆					
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆					
M	Austenitic	◆	◆	◆	◆	◆						
	Martensitic	◇	◆	◆	◆	◆						
K	Grey Cast Iron						◇					
	Ductile Cast Iron						◇					
N	Nonferrous										◆	◆
S	Heat Resisting Alloy					◆	◆	◆	◆			
	Titanium Alloy					◆	◆	◆	◆			
H	Hardened Materials						◆					

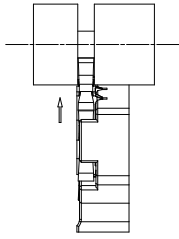
Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide
		W	L	R	KPM30N	KXM15S	KHST10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX628GTR 150-600-010	1.5	6	0.1	●	●						
	KX628GTR 150-600-020	1.5	6	0.2	●	●						
	KX628GTR 175-600-010	1.75	6	0.1	●	●						
	KX628GTR 175-600-020	1.75	6	0.2	●	●						
	KX628GTR 200-600-010	2	6	0.1	●	●						
	KX628GTR 200-600-020	2	6	0.2	●	●						
	KX628GTR 250-600-010	2.5	6	0.1	●	●						
	KX628GTR 250-600-020	2.5	6	0.2	●	●						
	KX628GTR 300-600-010	3	6	0.1	●	●						
	KX628GTR 300-600-020	3	6	0.2	●	●						
	KX628GTR 300-600-030	3	6	0.3	●	●						
	KX628GTR 300-600-040	3	6	0.4	●	●						

Grades: ◆ Recommended ◊ Suitable ◇ Applicable ● Standard Stock

# GR Grooving Tools

**New**

Application Examples



Recommended Suitable Applicable	P	Soft Steel Carbon Steel / Alloy Steel	◆	◇	◆	◆	◆	◆	◆	◆	◆	◆
	M	Austenitic Martensitic	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	K	Grey Cast Iron Ductile Cast Iron	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	N	Nonferrous	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	S	Heat Resisting Alloy Titanium Alloy	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	H	Hardened Materials	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide
		W	L	R	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX628GR 100-400-010	1	4	0.1	●	●						
	KX628GR 100-400-020	1	4	0.2	●	●						
	KX628GR 150-450-010	1.5	4.5	0.1	●	●						
	KX628GR 150-450-020	1.5	4.5	0.2	●	●						
	KX628GR 150-600-010	1.5	6	0.1	●	●						
	KX628GR 150-600-020	1.5	6	0.2	●	●						
	KX628GR 200-600-010	2	6	0.1	●	●						
	KX628GR 200-600-020	2	6	0.2	●	●						
	KX628GR 250-600-010	2.5	6	0.1	●	●						
	KX628GR 250-600-030	2.5	6	0.3	●	●						
	KX628GR 265-600-030	2.65	6	0.3	●	●						
	KX628GR 280-600-030	2.8	6	0.3	●	●						
	KX628GR 300-600-010	3	6	0.1	●	●						
	KX628GR 300-600-030	3	6	0.3	●	●						
KX628GR 300-600-040	3	6	0.4	●	●							

Grades: ◆ Recommended    ◆ Suitable    ◇ Applicable    ● Standard Stock

KX628 Stable Clamping Six Heads Inserts

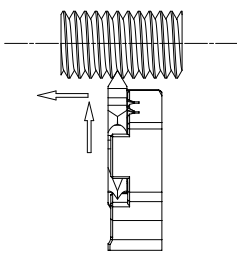
## Symbols of KX628 Threading Tools

KX628: KX628 Series	T: Threading Tools	R: Right Handed	040: 0.4	A: Left				005: R0.05
			080: 0.8	B: Right		55: 55°		010: R0.1
			125: 1.25	N: Central		60: 60°		020: R0.2
Series	Insert Type	Insert Direction	Tip Width	Blade Shape	-	Thread Angle	-	Nose Radius
<b>KX628</b>	<b>T</b>	<b>R</b>	<b>125</b>	<b>A</b>	<b>-</b>	<b>60</b>	<b>-</b>	<b>005</b>

## TR Threading Tools




**New**

Application Examples



◆ Recommended  
◇ Suitable  
◇ Applicable

P	Soft Steel	◆	◇	◇		◆	◆		
	Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆		
M	Austenitic	◆	◆	◆	◆	◆			
	Martensitic	◇	◆	◆	◆	◆			
K	Grey Cast Iron			◇					
	Ductile Cast Iron			◇					
N	Nonferrous							◆	◆
S	Heat Resisting Alloy		◆	◇	◆	◆			
	Titanium Alloy		◆	◇	◆	◆			
H	Hardened Materials					◇			

Shape Right Handed Tool	Type	Size					Carbide with PVD Coating							Carbide
		F	A	R	Pitch (mm)	Teeth /inch	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
 A Type	KX628TR 120-A-60-010	1.2	60°	0.1	0.8-2.0	25-17	●	●						
	KX628TR 120-A-60-020	1.2	60°	0.2	1.5-2.0	16-13	●	●						
	KX628TR 120-A-55-010	1.2	55°	0.1		19-11	●	●						
	KX628TR 120-A-55-020	1.2	55°	0.2			●	●						
 B Type	KX628TR 120-B-60-010	1.2	60°	0.1	0.8-2.0	25-17	●	●						
	KX628TR 120-B-60-020	1.2	60°	0.2	1.5-2.0	16-13	●	●						
	KX628TR 120-B-55-010	1.2	55°	0.1		19-11	●	●						
	KX628TR 120-B-55-020	1.2	55°	0.2			●	●						
 N Type	KX628TR 165-N-60-010	1.65	60°	0.1	1.0-1.5	25-17	●	●						
	KX628TR 165-N-60-015	1.65	60°	0.15	1.0-1.5	25-17	●	●						
	KX628TR 165-N-60-020	1.65	60°	0.2	1.5-3.0	16-7	●	●						
	KX628TR 165-N-55-010	1.65	55°	0.1		24-10	●	●						
	KX628TR 165-N-55-015	1.65	55°	0.15			●	●						
	KX628TR 165-N-55-020	1.65	55°	0.2		14-10	●	●						

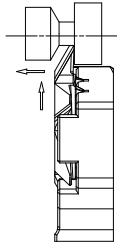
Grades: ◆ Recommended ◇ Suitable ◇ Applicable ● Standard Stock

## Symbols of KX628 Back-turning Tools

KX628: KX628 Series	B: Back-turning	R: Right Handed	005: R0.05	-	BF: Bf Geometry S: Polished Chip Breaker
			010: R0.1		
			015: R0.15		
Series	Insert Type	Insert Direction	Nose Radius		Groove Profile
<b>KX628</b>	<b>B</b>	<b>R</b>	<b>005</b>	<b>-</b>	<b>S</b>

## BR Back-turning Tools **New**

Application Examples

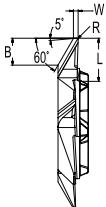


◆ Recommended

◊ Suitable

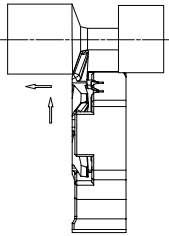
◇ Applicable

Type	Material	Size				Carbide with PVD Coating						Carbide	
		W	L	R	B	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
P	Soft Steel	◆	◇	◆		◆	◆			◆	◆		
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆			◆	◆		
M	Austenitic	◆	◆	◆		◆	◆		◆	◆			
	Martensitic	◇	◆	◆		◆	◆		◆	◆			
K	Grey Cast Iron			◇									
	Ductile Cast Iron			◇									
N	Nonferrous										◆	◆	
S	Heat Resisting Alloy					◆	◆		◆	◆			
	Titanium Alloy					◆	◆		◆	◆			
H	Hardened Materials							◆					

Shape Right Handed Tool	Type	Size				Carbide with PVD Coating						Carbide	
		W	L	R	B	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
 	KX628BR 005-S	0.5	6	<0.05	4.5	●	●						
	KX628BR 015-S	0.5	6	<0.15	4.5	●	●						
	KX628BR 020-S	0.5	6	<0.2	4.5	●	●						

## BF Back-turning Tools **New**

Application Examples

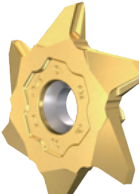
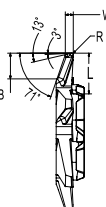


◆ Recommended

◊ Suitable

◇ Applicable

Type	Material	Size				Carbide with PVD Coating						Carbide	
		W	L	R	B	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
P	Soft Steel	◆	◇	◆		◆	◆			◆	◆		
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆			◆	◆		
M	Austenitic	◆	◆	◆		◆	◆		◆	◆			
	Martensitic	◇	◆	◆		◆	◆		◆	◆			
K	Grey Cast Iron			◇									
	Ductile Cast Iron			◇									
N	Nonferrous										◆	◆	
S	Heat Resisting Alloy					◆	◆		◆	◆			
	Titanium Alloy					◆	◆		◆	◆			
H	Hardened Materials							◆					

Shape Right Handed Tool	Type	Size				Carbide with PVD Coating						Carbide	
		W	L	R	B	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
 	KX628BR 005-BF	0.5	6	<0.05	4.5	●	●						
	KX628BR 015-BF	0.5	6	<0.15	4.5	●	●						
	KX628BR 020-BF	0.5	6	<0.2	4.5	●	●						

Grades: ◆ Recommended ◊ Suitable ◇ Applicable

● Standard Stock

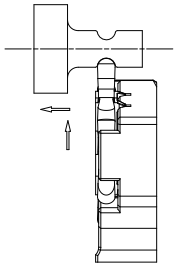
## Symbols of KX628 Circular Grooving Tools

KX628: KX628 Series	R: Circular grooving Tools	R: Right Handed	050: R0.5	150: 1.5
			125: R1.25	200: 2.0
				350: 3.5
<b>Series</b>	<b>Insert Type</b>	<b>Insert Direction</b>	<b>Nose Radius</b>	<b>Effective Cutting Depth</b>
<b>KX628</b>	<b>R</b>	<b>R</b>	<b>050</b>	<b>200</b>

## RR Circular Grooving Tools

**New**

Application Examples



◆ Recommended

◊ Suitable

◇ Applicable

P	Soft Steel	◆	◇	◆		◆	◆					
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆					
M	Austenitic	◆	◆	◆	◆	◆	◆					
	Martensitic	◇	◆	◆	◆	◆	◆					
K	Grey Cast Iron					◇						
	Ductile Cast Iron					◇						
N	Nonferrous										◆	◆
S	Heat Resisting Alloy					◆	◆	◆	◆			
	Titanium Alloy					◆	◆	◆	◆			
H	Hardened Materials							◆				

Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide
		W	L	R	KPM30N	KXM15S	KH510M	KMS20	KM515C	KCP10P	KCN10D	KCN10
	KX628RR 100-600	2	6	1	●	●						
	KX628RR 125-600	2.5	6	1.25	●	●						
	KX628RR 150-600	3	6	1.5	●	●						
	KX628RR 159-600	3.18	6	1.59	●	●						

Grades: ◆ Recommended ◊ Suitable ◇ Applicable ● Standard Stock

## Symbols of KX628 Flat Parting Tools

KX628: KX628 Series	C: Parting Tools	R: Right Handed	125: 1.25	
<b>Series</b>	<b>Insert Type</b>	<b>Insert Direction</b>	<b>Edge Width</b>	<b>Strengthened Tip Nose</b>
<b>KX628</b>	<b>C</b>	<b>R</b>	<b>125</b>	<b>P</b>

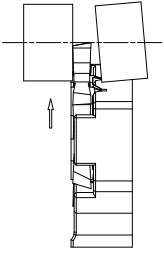
## Symbols of KX628 Parting Tools With Lead Angle

KX628: KX628Series	C: Parting Tools	R: Right Handed	125: 1.25	16D: 16°	R: Right Leaded		
				11D: 11°	L: Left Leaded		
<b>Series</b>	<b>Insert Type</b>	<b>Insert Direction</b>	<b>Edge Width</b>	<b>Lead Angle</b>	<b>Lead Direction</b>	<b>Strengthened Tip Nose</b>	
<b>KX628</b>	<b>C</b>	<b>R</b>	<b>125</b>	<b>16D</b>	<b>R</b>	<b>P</b>	

# CR Parting Tools

**New**

Application Examples



◆ Recommended	P	Soft Steel	◆	◇	◆	◆	◆	◆	◆	◆	◆	◆	◆
		Carbon Steel/ Alloy Steel	◆	◇	◆	◆	◆	◆	◆	◆	◆	◆	◆
◆ Suitable	M	Austenitic	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
		Martensitic	◇	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
◇ Applicable	K	Grey Cast Iron				◇							
		Ductile Cast Iron				◇							
	N	Nonferrous										◆	◆
	S	Heat Resisting Alloy					◆	◆	◆	◆			
	Titanium Alloy					◆	◆	◆	◆				
	H	Hardened Materials						◆					

Shape Right Handed Tool	Type	Size				Carbide with PVD Coating							Carbide
		W	Maximum Diameter of parting (DMax)	R	D	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX628CR 100-P	1	12	0.08-0.1	0°	●	●						
	KX628CR 125-P	1.25	12	0.15	0°	●	●						
	KX628CR 150-P	1.5	12	0.15	0°	●	●						
	KX628CR 100-11DR-P	1	12	0.08-0.1	11°	●	●						
	KX628CR 125-11DR-P	1.25	12	0.08-0.1	11°	●	●						
	KX628CR 150-11DR-P	1.5	12	0.08-0.1	11°	●	●						
	KX628CR 100-16DR-P	1	12	0.08-0.1	16°	●	●						
	KX628CR 125-16DR-P	1.25	12	0.08-0.1	16°	●	●						
	KX628CR 150-16DR-P	1.5	12	0.08-0.1	16°	●	●						

Grades: ◆ Recommended ◆ Suitable ◇ Applicable

● Standard Stock

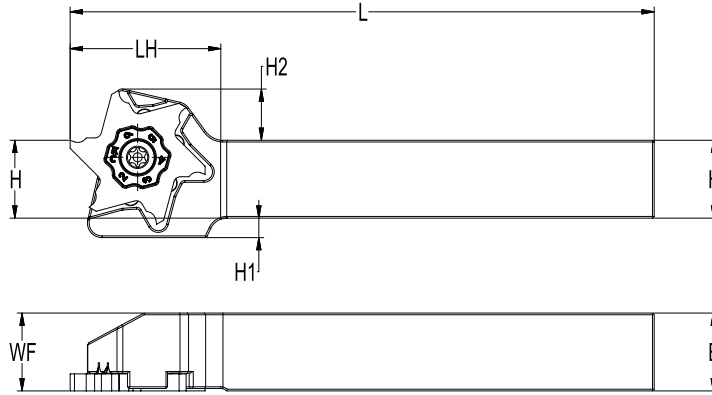
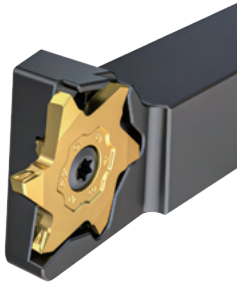
KX628 Stable Clamping Six Heads Inserts

## Symbols of KX628 Tool Holders

					M: 150
					JX: 120
					J: 110
					H: 100
KX628: KX628 Series	R: Right Handed				
Series	Holder Direction	-	Holder Height	Holder Width	Tool Length
<b>KX628</b>	<b>R</b>	<b>-</b>	<b>12</b>	<b>12</b>	<b>JX</b>

## KX628 Tool Holders

**New**



Right Handed Tool holder (R)

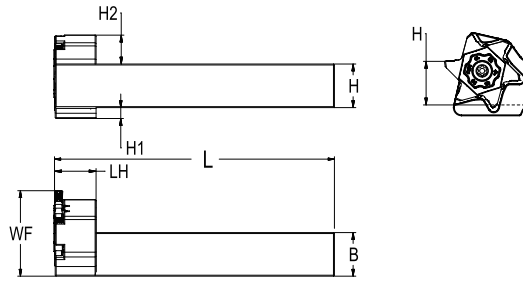
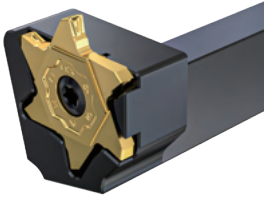
Type	Size(mm)							Accessories		Corresponding Insert
	H	B	L	LH	WF	H1	H2	Screw	Wrenth	
KX628R-1212JX	12	12	120	32	12	8	10.5	KS-5008-T	KW-T20	KX628□R □□□
KX628R-1616JX	16	16	120	32	16	4	10.5	KS-5008-T	KW-T20	KX628□R □□□
KX628R-2020JX	20	20	120	32	20	0	10.5	KS-5008-T	KW-T20	KX628□R □□□
KX628R-2525M	25	25	150	32	25	0	10.5	KS-5008-T	KW-T20	KX628□R □□□

## Symbols of KX628-F Tool Holders

							JX: 120		
							J: 110		
							H: 100		
KX628: KX628 Series	L: left handed								
Series	Holder Direction	-	Holder Height	Holder Width	Tool Length	-	Others		
KX628	L	-	12	12	JX	-	F		

## KX628-F Tool Holders

**New**



Left handed holders  
Left handed holders are for right hand inserts

Type	Size(mm)							Accessories		Corresponding Insert
	H	B	L	LH	H1	H2	WF	Screw	Wrenth	
KX628L-1616K-F	16	16	125	15	4	10.6	31	KS-5008-T	KW-T20	KX628□R □□□
KX628L-2020K-F	20	20	125	15	0	10.6	31	KS-5008-T	KW-T20	KX628□R □□□

# Recommend Parameters For Machining-KX628

## GM Super Cutter

Edge Width	Radial Feed f(mm/rev)	Parameters For Cross Feed
3.0	0.04-0.1	AP: W*0.5 f: 0.04-0.1

## GTR Back-turning Tools

Edge Width	Radial Feed f(mm/rev)	Parameters For Cross Feed
1.0-1.5	0.01-0.05	AP: W*0.2 f: 0.01-0.03
1.75-2.0	0.02-0.08	AP: W*0.2 f: 0.02-0.07

## GR Grooving Tools

Edge Width	Feeding Speed f(mm/rev)
1.5-2.0	0.02-0.06
2.5-3.0	0.02-0.07

## TR Threading Tools

Type	Cutting Depth Ap(mm)
A-Type	0.02-0.05
B-Type	0.02-0.05
N-Type	0.03-0.08

## BR Back-turning Tools

Cutting Depth Ap(mm)	Feeding Speed f(mm/rev)
0.05-6	0.02-0.08

## RR Circular Grooving Tools

Edge Width	Feeding Speed f(mm/rev)
2.0	0.02-0.06
2.5-3.18	0.03-0.07

## CR Parting Tools

Edge Width	Feeding Speed f(mm/rev)
1.0-1.5	0.015-0.06

## BF Back-turning Tools

Cutting Depth Ap(mm)	Feeding Speed f(mm/rev)
0.05-6	0.04-0.1

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**KOYIN CUT**  
OPTIMIZE YOUR PRODUCTIVITY

## QLS SERIES

QLS Quick Lock Solid Grooving and Parting Tools

### FEATURES AND ADVANTAGES



V-shape locating slot design  
Vertical and horizontal machining with more stable cutting under stress

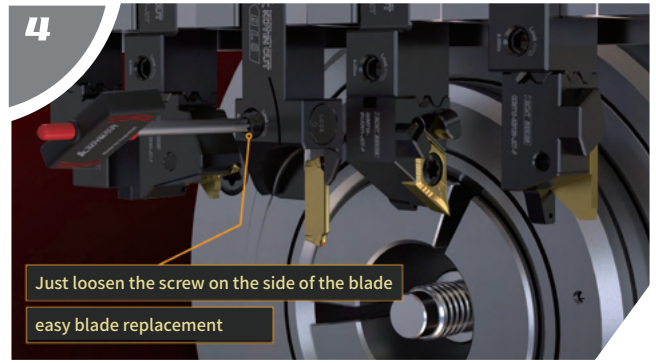
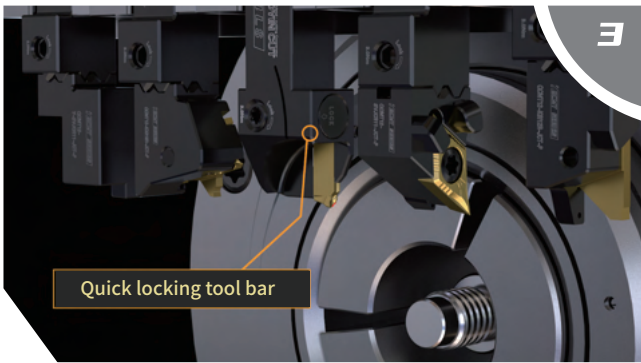
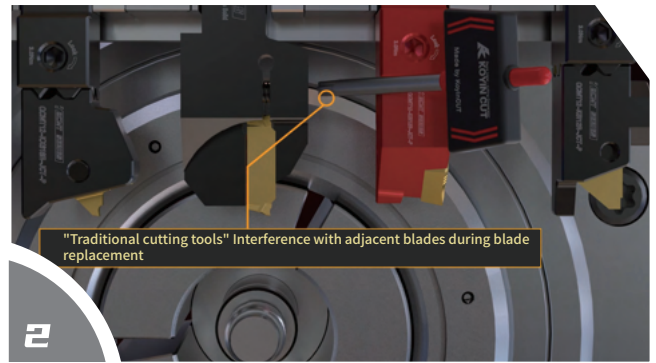
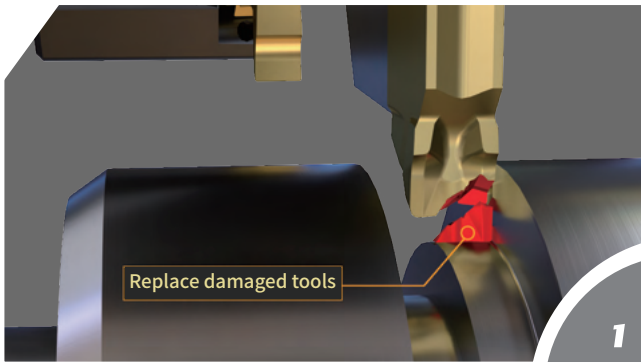


Quick tool clamping is achieved through a taper-driven drawbar activated by dual side-lock screws, providing rigid fixation and fast assembly



QLS Quick Lock Solid Grooving and Parting Tools

## Quick Lock Simulation Display

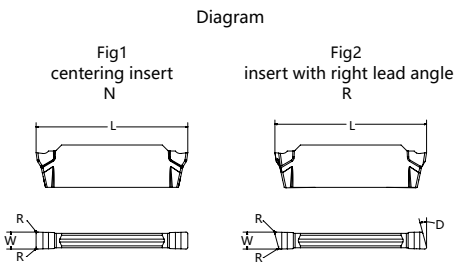


Grooving and Parting Tools  
QLS Quick-Lock Solid

### Symbols of KGCS Inserts

KGC: Grooving, Parting	D: Standard	15: 1.5	003: R0.03	-	R6: Right Lead Angle 6°	-	CH: High Feed
	S: Stable	175: 1.75	01: R0.1		L6: Left Lead Angle 6°		TM: Versatile
		20: 2.0	015: R0.15		R15: Right Lead Angle 15°		CM: Versatile
		25: 2.5	020: R0.2		L15: Left Lead Angle 15°		CF: Low Feed
		30: 3.0	025: R0.25		N: Flat		
Series	Insert Type	Tip Width	Nose Radius	-	Lead Angle	-	Geomtery
KGC	S	20	003	-	N	-	CF

# CF Groove Geometry



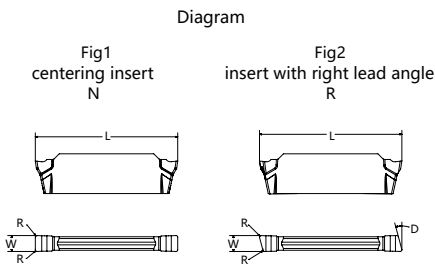
◆ Recommended	P	Soft Steel	◆	◇	◆		◆	◆						
		Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆						
◆ Suitable	M	Austenitic	◆	◆	◆	◆	◆	◆						
		Martensitic	◇	◆	◆	◆	◆	◆						
◇ Applicable	K	Grey Cast Iron					◇							
		Ductile Cast Iron					◇							
	N	Nonferrous											◆	◆
	S	Heat Resisting Alloy						◆	◆	◆	◆			
		Titanium Alloy						◆	◆	◆	◆			
	H	Hardened Materials							◆					

Shape	Type	Size						Carbide with PVD Coating						Carbide	
		W	Edge width Tolerance	R	L	D	Fig	KPM30N	KMM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
Low Feed	KGCS 20003-N-CF	2.00	±0.02	0.03	18	0°	1	●	●	●					
	KGCS 2001-N-CF	2.00	±0.02	0.10	18	0°	1	●	●	●					
	KGCS 20015-N-CF	2.00	±0.02	0.15	18	0°	1	●	●	●					
	KGCS 2002-N-CF	2.00	±0.02	0.20	18	0°	1	●	●	●					
	KGCS 2502-N-CF	2.50	±0.04	0.20	18	0°	1	●	●	●					
	KGCS 20003-R6-CF	2.00	±0.02	0.03	18	6°	2	●	●	●					
	KGCS 2001-R6-CF	2.00	±0.02	0.10	18	6°	2	●	●	●					
	KGCS 20015-R6-CF	2.00	±0.02	0.15	18	6°	2	●	●	●					
	KGCS 2002-R6-CF	2.00	±0.02	0.20	18	6°	2	●	●	●					
	KGCS 20003-R15-CF	2.00	±0.02	0.03	18	15°	2	●	●	●					
	KGCS 2001-R15-CF	2.00	±0.02	0.10	18	15°	2	●	●	●					
	KGCS 20015-R15-CF	2.00	±0.02	0.15	18	15°	2	●	●	●					
	KGCS 2002-R15-CF	2.00	±0.02	0.20	18	15°	2	●	●	●					
	KGCS 20003-L6-CF	2.00	±0.02	0.03	18	6°	2	●	●	●					
	KGCS 2001-L6-CF	2.00	±0.02	0.10	18	6°	2	●	●	●					
	KGCS 20015-L6-CF	2.00	±0.02	0.15	18	6°	2	●	●	●					
	KGCS 2002-L6-CF	2.00	±0.02	0.20	18	6°	2	●	●	●					
	KGCS 20003-L15-CF	2.00	±0.02	0.03	18	15°	2	●	●	●					
	KGCS 2001-L15-CF	2.00	±0.02	0.10	18	15°	2	●	●	●					
	KGCS 20015-L15-CF	2.00	±0.02	0.15	18	15°	2	●	●	●					
KGCS 2002-L15-CF	2.00	±0.02	0.20	18	15°	2	●	●	●						

Grades: ◆ Recommended ◆ Suitable ◇ Applicable ● Standard Stock

Q15 Quick Lock Solid Grooving and Parting Tools

# CM Geometry

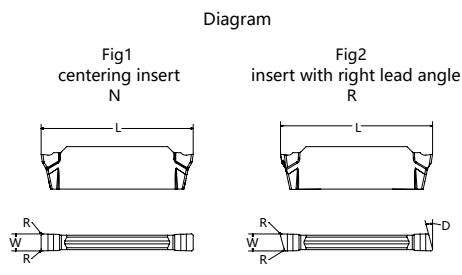


Recommended	P	Soft Steel	◆	◇	◆		◆	◆							
		Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆							
Suitable	M	Austenitic	◆	◆	◆	◆	◆								
		Martensitic	◇	◆	◆	◆	◆								
Applicable	K	Grey Cast Iron					◇								
		Ductile Cast Iron					◇								
	N	Nonferrous												◆	◆
	S	Heat Resisting Alloy					◆	◆	◆	◆					
		Titanium Alloy					◆	◆	◆	◆					
	H	Hardened Materials						◆							

Shape	Type	Size						Carbide with PVD Coating							Carbide
		W	Edge width Tolerance	R	L	D	Fig	KPM30N	KKM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
Versatile	KGCS 15003-N-CM	1.5	±0.02	0.03	14	0°	1	●	●	●					
	KGCS 1501-N-CM	1.5	±0.02	0.10	14	0°	1	●	●	●					
	KGCS 15015-N-CM	1.5	±0.02	0.15	14	0°	1	●	●	●					
	KGCS 175015-N-CM	1.75	±0.04	0.15	14	0°	1	●	●	●					
	KGCS 15003-R6-CM	1.5	±0.02	0.03	14	6°	2	●	●	●					
	KGCS 1501-R6-CM	1.5	±0.02	0.10	14	6°	2	●	●	●					
	KGCS 15015-R6-CM	1.5	±0.02	0.15	14	6°	2	●	●	●					
	KGCS 15003-R15-CM	1.5	±0.02	0.03	14	15°	2	●	●	●					
	KGCS 1501-R15-CM	1.5	±0.02	0.10	14	15°	2	●	●	●					
	KGCS 15015-R15-CM	1.5	±0.02	0.15	14	15°	2	●	●	●					
	KGCS 15003-L6-CM	1.5	±0.02	0.03	14	6°	2	●	●	●					
	KGCS 1501-L6-CM	1.5	±0.02	0.10	14	6°	2	●	●	●					
	KGCS 15015-L6-CM	1.5	±0.02	0.15	14	6°	2	●	●	●					
	KGCS 15003-L15-CM	1.5	±0.02	0.03	14	15°	2	●	●	●					
	KGCS 1501-L15-CM	1.5	±0.02	0.10	14	15°	2	●	●	●					
KGCS 15015-L15-CM	1.5	±0.02	0.15	14	15°	2	●	●	●						
Versatile	KGCS 30005-N-CM	3.00	±0.02	0.05	20	0°	1	●	●	●					
	KGCS 3001-N-CM	3.00	±0.02	0.1	20	0°	1	●	●	●					
	KGCS 3002-N-CM	3.00	±0.02	0.2	20	0°	1	●	●	●					
	KGCS 3003-N-CM	3.00	±0.02	0.3	20	0°	1	●	●	●					
	KGCS 3004-N-CM	3.00	±0.02	0.4	20	0°	1	●	●	●					
	KGCS 30005-R6-CM	3.00	±0.02	0.05	20	6°	2	●	●	●					
	KGCS 3001-R6-CM	3.00	±0.02	0.1	20	6°	2	●	●	●					
	KGCS 30015-R6-CM	3.00	±0.02	0.15	20	6°	2	●	●	●					
	KGCS 3002-R6-CM	3.00	±0.02	0.2	20	6°	2	●	●	●					
	KGCS 30005-R15-CM	3.00	±0.02	0.05	20	15°	2	●	●	●					
	KGCS 3001-R15-CM	3.00	±0.02	0.10	20	15°	2	●	●	●					
	KGCS 30015-R15-CM	3.00	±0.02	0.15	20	15°	2	●	●	●					
	KGCS 3002-R15-CM	3.00	±0.02	0.2	20	15°	2	●	●	●					
	KGCS 30005-L6-CM	3.00	±0.02	0.05	20	6°	2	●	●	●					
	KGCS 3001-L6-CM	3.00	±0.02	0.1	20	6°	2	●	●	●					
	KGCS 30015-L6-CM	3.00	±0.02	0.15	20	6°	2	●	●	●					
	KGCS 3002-L6-CM	3.00	±0.02	0.2	20	6°	2	●	●	●					
	KGCS 30005-R15-CM	3.00	±0.02	0.05	20	15°	2	●	●	●					
KGCS 3001-R15-CM	3.00	±0.02	0.1	20	15°	2	●	●	●						
KGCS 30015-L15-CM	3.00	±0.02	0.15	20	15°	2	●	●	●						
KGCS 3002-L15-CM	3.00	±0.02	0.2	20	15°	2	●	●	●						

Grades: ◆ Recommended ◇ Suitable ◇ Applicable ● Standard Stock

# CH, TM Geometry



◆ Recommended	P	Soft Steel	◆	◇	◆		◆	◆							
		Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆							
◆ Suitable	M	Austenitic	◆	◆	◆	◆	◆								
		Martensitic	◇	◆	◆	◆	◆								
◇ Applicable	K	Grey Cast Iron					◇								
		Ductile Cast Iron					◇								
	N	Nonferrous												◆	◆
	S	Heat Resisting Alloy						◆	◆	◆	◆				
		Titanium Alloy						◆	◆	◆	◆				
	H	Hardened Materials							◆						

Shape	Type	Size						Carbide with PVD Coating							Carbide	
		W	Edge width Tolerance	R	L	D	Fig	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10	
High Feed	KGCS 20003-N-CH	2.00	±0.02	0.03	18	0°	1									
	KGCS 2001-N-CH	2.00	±0.02	0.10	18	0°	1	●	●	●						
	KGCS 20015-N-CH	2.00	±0.02	0.15	18	0°	1	●	●	●						
	KGCS 2002-N-CH	2.00	±0.02	0.20	18	0°	1	●	●	●						
	KGCS 2502-N-CH	2.50	±0.04	0.20	18	0°	1	●	●	●						
	KGCS 20003-R6-CH	2.00	±0.02	0.03	18	6°	2									
	KGCS 2001-R6-CH	2.00	±0.02	0.10	18	6°	2	●	●	●						
	KGCS 20015-R6-CH	2.00	±0.02	0.15	18	6°	2									
	KGCS 2002-R6-CH	2.00	±0.02	0.20	18	6°	2									
	KGCS 20003-R15-CH	2.00	±0.02	0.03	18	15°	2									
	KGCS 2001-R15-CH	2.00	±0.02	0.10	18	15°	2	●	●	●						
	KGCS 20015-R15-CH	2.00	±0.02	0.15	18	15°	2									
	KGCS 2002-R15-CH	2.00	±0.02	0.20	18	15°	2									
	KGCS 20003-L6-CH	2.00	±0.02	0.03	18	6°	2									
	KGCS 2001-L6-CH	2.00	±0.02	0.10	18	6°	2	●	●	●						
	KGCS 20015-L6-CH	2.00	±0.02	0.15	18	6°	2									
	KGCS 2002-L6-CH	2.00	±0.02	0.20	18	6°	2									
	KGCS 20003-L15-CH	2.00	±0.02	0.03	18	15°	2									
KGCS 2001-L15-CH	2.00	±0.02	0.10	18	15°	2	●	●	●							
KGCS 20015-L15-CH	2.00	±0.02	0.15	18	15°	2										
KGCS 2002-L15-CH	2.00	±0.02	0.20	18	15°	2										
Versatile	KGCS 3002-N-TM	3.00	±0.02	0.2	20	0°	1	●	●	●						
	KGCS 3003-N-TM	3.00	±0.02	0.3	20	0°	1	●	●	●						
	KGCS 3004-N-TM	3.00	±0.02	0.4	20	0°	1	●	●	●						

Grades: ◆ Recommended    ◇ Suitable    ◇ Applicable            ● Standard Stock

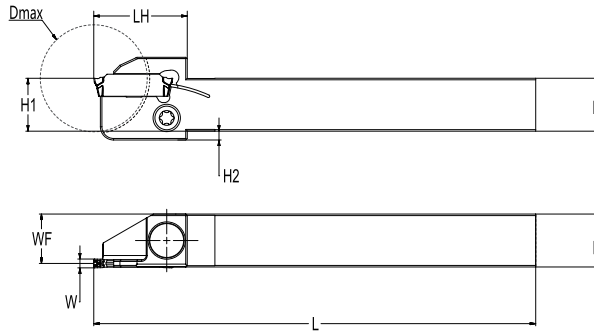
Q15 Quick Lock Solid Grooving and Parting Tools

## Symbols of Toolholders

PC: Standard Holder, Standard Insert					H: 100				
PCS: Standard Holder, Stable Insert		R: Right Handed			J: 110				
QLS: Quick Change Holder, Stable Insert	KGC: Grooving-Parting	L: Left Handed			JX: 120	15: 1.5-1.75			
					M: 150	2: 2.0-2.5	D24: Diameter of Parting 24	JCT: Inner Cooling	
<b>Type</b>	<b>Series</b>	<b>Holder Direction</b>	<b>Holder Height</b>	<b>Holder Width</b>	<b>Tool Length</b>	<b>Tip Width</b>	<b>Diameter of parting</b>	<b>other</b>	
<b>QLS</b>	<b>KGC</b>	<b>R</b>	<b>12</b>	<b>12</b>	<b>JX</b>	<b>2</b>	<b>D24</b>	<b>JCT</b>	

## QLS Series

**New**

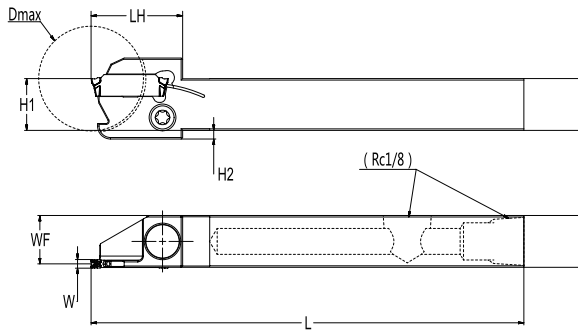


Right Handed Tool holder (R)

Type	Size(mm)								Accessories			Corresponding Insert
	Dmax	W	H(H1)	B	L	LH	WF	H2	Lock Screw	Sealing Screw	Wrench	
QLS-KGC % -1010J-15D12 <b>New</b>	12	1.5-1.75	10	10	110	17	9.4	4	KS-50065-TS	KS-50029-T	KW-T15	KGCS 15□□ KGCS 175□□
QLS-KGC % -1212JX-15D16 <b>New</b>	16	1.5-1.75	12	12	120	19	11.4	2	KS-50065-TS	KS-50039-T	KW-T15	
QLS-KGC % -1616JX-15D24 <b>New</b>	24	1.5-1.75	16	16	120	24	15.4	0	KS-5009-TS	KS-50039-T	KW-T15	
QLS-KGC % -1010J-2D20 <b>New</b>	20	2.0-2.5	10	10	110	21	9.2	4	KS-50065-TS	KS-50029-T	KW-T15	KGCS 20□□ KGCS 22□□ KGCS 25□□
QLS-KGC % -1212JX-2D24 <b>New</b>	24	2.0-2.5	12	12	120	21	11.2	2	KS-50065-TS	KS-50039-T	KW-T15	
QLS-KGC % -1616JX-2D32 <b>New</b>	32	2.0-2.5	16	16	120	30	15.2	0	KS-5009-TS	KS-50039-T	KW-T15	
QLS-KGC % -2020JX-2D32 <b>New</b>	32	2.0-2.5	20	20	120	30	19.2	0	KS-5009-TS	KS-50039-T	KW-T15	
QLS-KGC % -1212JX-3D26 <b>New</b>	26	3	12	12	120	22	10.85	3	KS-50065-TS	KS-50039-T	KW-T15	KGCS 3□□□
QLS-KGC % -1616JX-3D36 <b>New</b>	36	3	16	16	120	28	14.85	4	KS-5009-TS	KS-50039-T	KW-T15	
QLS-KGC % -2020JX-3D36 <b>New</b>	36	3	20	20	120	30	18.85	0	KS-5009-TS	KS-50039-T	KW-T15	

# QLS Holders With Inner Cooling

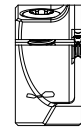
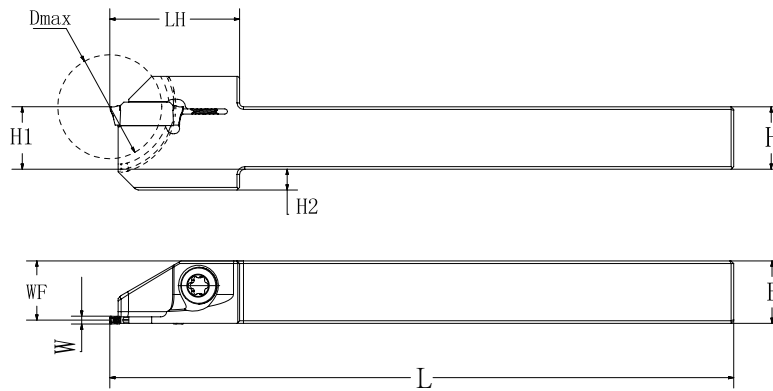
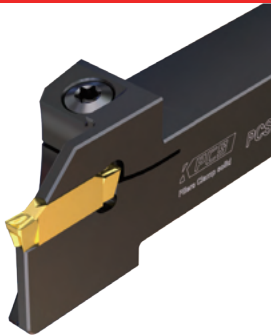
**New**



Right Handed Tool holder (R)

Type	Size(mm)								Accessories			Corresponding Insert
	Dmax	W	H(H1)	B	L	LH	WF	H2	Lock Screw	Sealing Screw	Wrenth	
QLS-KGC% -1212JX-2D24-JCT	24	2.0-2.5	12	12	120	28	11.2	7	KS-50065-TS	KS-50039-T	KW-T15	KGCS 20□□ KGCS 22□□ KGCS 25□□
QLS-KGC% -1616JX-2D32-JCT	32	2.0-2.5	16	16	120	37	15.2	3	KS-5009-TS	KS-50039-T	KW-T15	KGCS 3□□□
QLS-KGC% -1212JX-3D26-JCT <b>New</b>	26	3	12	12	120	29	10.85	7	KS-50065-TS	KS-50039-T	KW-T15	KGCS 3□□□
QLS-KGC% -1616JX-3D36-JCT <b>New</b>	36	3	16	16	120	37	14.85	4	KS-5009-TS	KS-50039-T	KW-T15	KGCS 3□□□

# PCS Holders

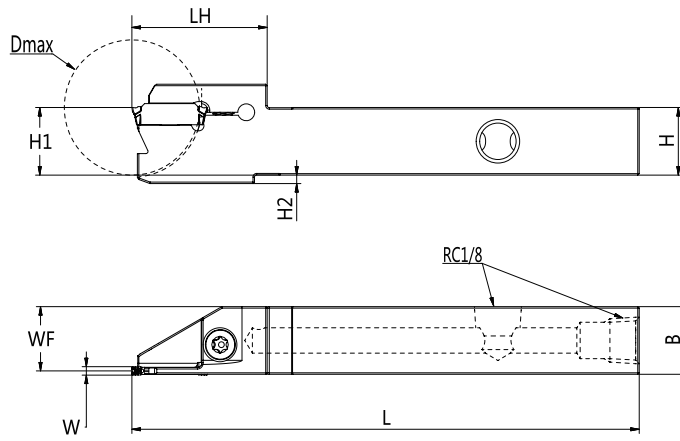


Right Handed Tool holder (R)

Type	Size(mm)								Accessories		Corresponding Insert
	Dmax	W	H(H1)	B	L	LH	WF	H2	Lock Screw	Wrenth	
PCS-KGC% -1010J-15D16	16	1.5-1.75	10	10	110	19.5	9.4	4	KS-4009-T	KW-T15	KGCS 15□□ KGCS 175□□
PCS-KGC% -1212JX-15D16	16	1.5-1.75	12	12	120	19.5	11.4	2	KS-4009-T	KW-T15	KGCS 20□□ KGCS 22□□ KGCS 25□□
PCS-KGC% -1616JX-15D24	24	1.5-1.75	16	16	120	25	15.4	0	KS-5012-T	KW-T20	KGCS 3□□□
PCS-KGC% -1010J-2D20	20	2.0-2.5	10	10	110	18	9.2	4	KS-4009-T	KW-T15	KGCS 3□□□
PCS-KGC% -1212JX-2D24	24	2.0-2.5	12	12	120	19	11.2	2	KS-4009-T	KW-T15	KGCS 3□□□
PCS-KGC% -1616JX-2D32	32	2.0-2.5	16	16	120	29	15.2	0	KS-5012-T	KW-T20	KGCS 3□□□
PCS-KGC% -2020JX-2D32	32	2.0-2.5	20	20	120	32	19.2	0	KS-5016-H	KW-LH4	KGCS 3□□□
PCS-KGC% -2525M-2D32	32	2.0-2.5	25	25	150	32	24.2	0	KS-5016-H	KW-LH4	KGCS 3□□□
PCS-KGC% -1212JX-3D26 <b>New</b>	26	3	12	12	120	22	10.85	3	KS-4009-T	KW-T15	KGCS 3□□□
PCS-KGC% -1616JX-3D36 <b>New</b>	36	3	16	16	120	28	14.85	4	KS-5012-T	KW-T20	KGCS 3□□□
PCS-KGC% -2020JX-3D36 <b>New</b>	36	3	20	20	120	30	18.85	0	KS-5016-H	KW-LH4	KGCS 3□□□
PCS-KGC% -2525M-3D36 <b>New</b>	36	3	25	25	150	30	23.85	0	KS-5016-H	KW-LH4	KGCS 3□□□

QLS Quick Lock Solid Grooving and Parting Tools

## PCS Holders With Inner Cooling



Right Handed Tool holder (R)

Type	Size(mm)								Accessories		Corresponding Insert
	Dmax	W	H(H1)	B	L	LH	WF	H2	Lock Screw	Wrenth	
PCS-KGC% -1616JX-2D32-JCT <b>New</b>	32	2.0-2.5	16	16	120	37	15.2	2	KS-5012-T	KW-T20	KGCS 20□□ KGCS 22□□ KGCS 25□□
PCS-KGC% -2020JX-2D32-JCT <b>New</b>	32	2.0-2.5	20	20	120	37	19.2	0	KS-5016-H	KW-LH4	
PCS-KGC% -2525M-2D32-JCT <b>New</b>	32	2.0-2.5	25	25	150	37	24.2	0	KS-5016-H	KW-LH4	
PCS-KGC% -1616JX-3D36-JCT <b>New</b>	36	3	16	16	120	37	14.85	4	KS-5012-T	KW-T20	KGCS 3□□□
PCS-KGC% -2020JX-3D36-JCT <b>New</b>	36	3	20	20	120	37	18.85	0	KS-5016-H	KW-LH4	
PCS-KGC% -2525M-3D36-JCT <b>New</b>	36	3	25	25	150	37	23.85	0	KS-5016-H	KW-LH4	

## Recommend Parameters For Machining

KGCS Series								
	Symbols of Grades	Vc (m/min)	CF	CM		CH	TM	
			Edge Width	Edge Width		Edge Width	Edge Width	
			2.0/2.2/2.5	1.5/1.75	3	2.0/2.2/2.5	3	
			Radial Feed	Radial Feed	Radial Feed	Radial Feed	Radial Feed	Cross Feed
<b>P</b> Steel	KPM30N	60-180	0.02-0.07	0.01-0.06	0.01-0.12	0.05-0.15	0.11-0.15	AP: W*0.2 f: 0.1-0.25
<b>M</b> Stainless Steel	KXM15S	60-180	0.01-0.05	0.01-0.05	0.09-0.11	0.05-0.12	0.09-0.13	AP: W*0.2 f: 0.08-0.18
	KMS15C	60-150	0.01-0.05	0.01-0.05	0.09-0.11	0.05-0.12	0.09-0.13	AP: W*0.2 f: 0.08-0.18
	KHS10M	60-130	0.01-0.05	0.01-0.05	0.09-0.11	0.05-0.12	0.09-0.13	AP: W*0.2 f: 0.08-0.18
<b>K</b> Cast Iron	KSH10M	80-200	0.03-0.08	0.03-0.07	0.1-0.12	0.05-0.15	0.11-0.15	AP: W*0.2 f: 0.1-0.25
<b>S</b> Heat Resisting Alloy	KXM15S	30-60	0.01-0.03	0.01-0.03	0.07-0.09	0.03-0.08	0.09-0.1	AP: W*0.2 f: 0.07-0.17
	KMS20	30-80	0.01-0.04	0.01-0.04	0.07-0.09	0.03-0.1	0.09-0.11	AP: W*0.2 f: 0.07-0.17
	KMS15C	30-50	0.01-0.03	0.01-0.03	0.07-0.09	0.03-0.08	0.09-0.1	AP: W*0.2 f: 0.07-0.17
<b>H</b> High-hardness Steel	KHS10M	40-80	0.01-0.04	0.01-0.04	0.01-0.04	0.03-0.08	0.04-0.08	AP: W*0.2 f: 0.05-0.15
<b>N</b> Nonferrous Metal	KCN10D(DLC Coating)	240-450	0.01-0.1	0.01-0.09	/	/	/	/
	KCN10 (Carbide Without Coating)	150-300	0.01-0.08	0.01-0.07	/	/	/	/

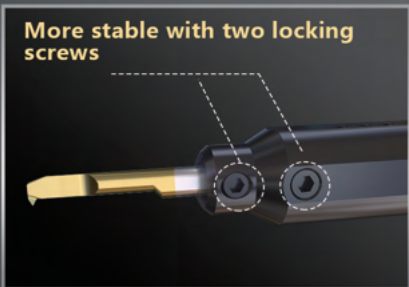
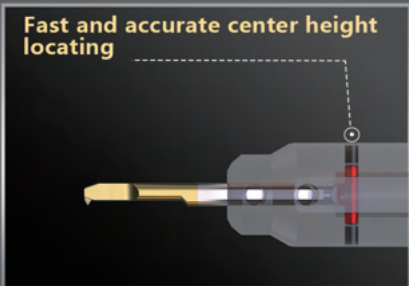
Scan QR code to watch the videos



High Performance Cutting tools R & D Manufacturer  
**KOYIN CUT**  
OPTIMIZE YOUR PRODUCTIVITY

## **SBT SERIES**

Fast Locating Small Diameter Boring Tools



SBT Quick Coordinate Setting  
Small Diameter Boring Tools

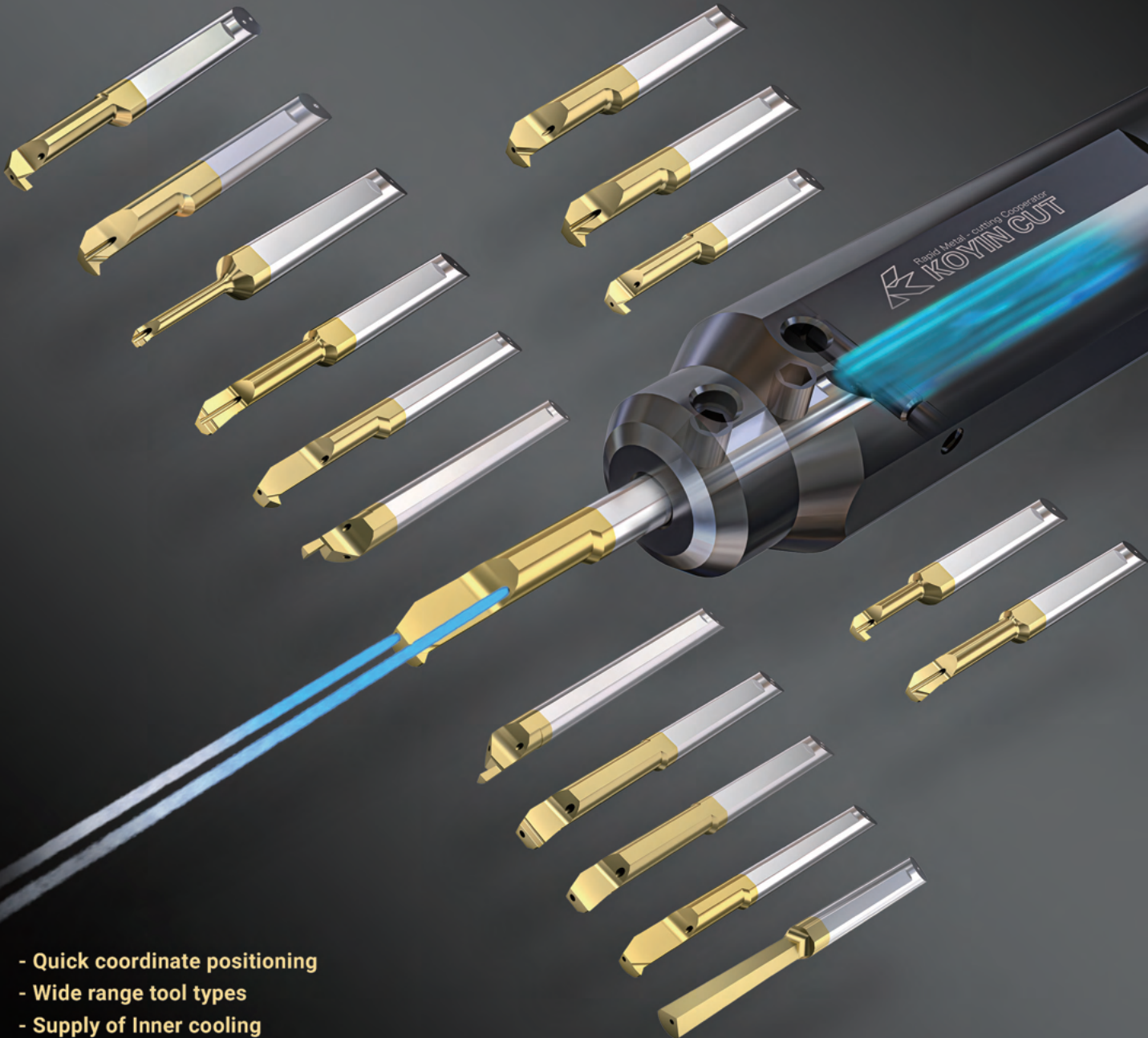
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High Performance Cutting tools R & D Manufacturer  
**KOYIN CUT**  
OPTIMIZE YOUR PRODUCTIVITY

**SBT SERIES**

SBT Quick Positioning Small Diameter Boring Tools with Inner Cooling



- Quick coordinate positioning
- Wide range tool types
- Supply of Inner cooling

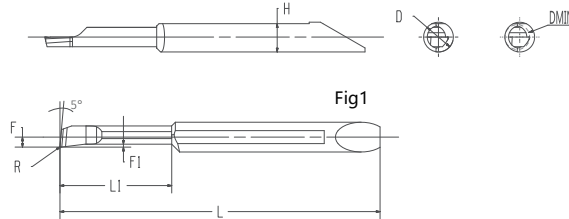
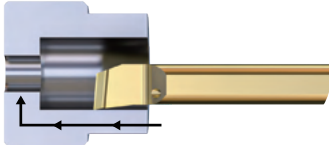
Small Diameter Boring Tools  
SBT Quick Coordinate Setting

## Symbols of SBT Boring Tools

KH: Boring Series	T: Boring			20: Boring Diameter 2	08: Effective Length 8mm	005: R0.05		C2: Double Jet
	P: Boring+profiling	4: Shank Diameter 4		25: Boring Diameter 2.5	125: Effective Length 12.5mm	008: R0.08		C1: Single Jet
	Q: Boring+profiling+deep Steps	6: Shank Diameter 6		30: Boring Diameter 3.0	15: Effective Length 15mm	015: R0.15		Without: Without Jet
Series	Type	Shank Diameter	Direction	Machinable Diameter of Boring	Effective Length	Nose Radius	—	Inner Cooling
<b>KH</b>	<b>T</b>	<b>4</b>	<b>R</b>	<b>20</b>	<b>08</b>	<b>005</b>	<b>—</b>	<b>C2</b>

## Internal Processing-Boring Process

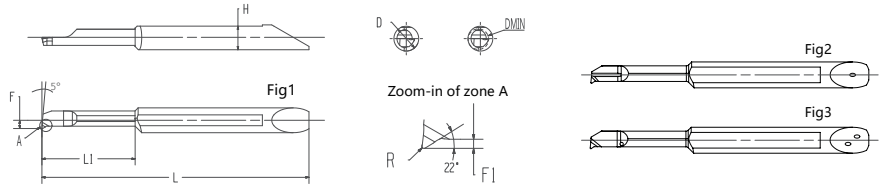
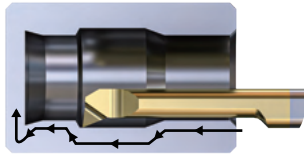
Parallel geometry  
excellent hardness and sharpness  
versatile



Shape	Type	Minimum Boring Diameter	Size(mm)								Carbide with PVD Coating		Applicable Holders
		DMIN	D	H	L	L1	F	F1	R	Fig	KHS10M	KXM15S	
	KHT4R 2008-010	2	4	3.6	35	8	0.85	0.25	0.1	1	●		KHP4...
	KHT4R 25125-010	2.5	4	3.6	40	12.5	1.1	0.25	0.1	1	●		KHP4...
	KHT4R 3013-010	3	4	3.6	43	13	1.35	0.35	0.1	1	●		KHP4...
	KHT4R 3013-020	3	4	3.6	43	13	1.35	0.35	0.2	1	●		KHP4...
	KHT4R 4015-010	4	4	3.6	49	15	1.86	0.4	0.1	1	●		KHP4...
	KHT4R 4015-020	4	4	3.6	49	15	1.86	0.4	0.2	1	●		KHP4...
	KHT6R 5020-010	5	6	5.6	58	20	2.35	0.5	0.1	1	●		KHP6...
	KHT6R 5020-020	5	6	5.6	58	20	2.35	0.5	0.2	1	●		KHP6...
	KHT6R 6025-010	6	6	5.6	63	25	2.85	0.6	0.1	1	●		KHP6...
	KHT6R 6025-020	6	6	5.6	63	25	2.85	0.6	0.2	1	●		KHP6...
	KHT4R 2008-010-C1	2	4	3.6	35	8	0.85	0.25	0.1	2	●		KHP4...JCT
	KHT4R 25125-010-C1	2.5	4	3.6	40	12.5	1.1	0.25	0.1	2	●		KHP4...JCT
	KHT4R 3013-010-C1	3	4	3.6	43	13	1.35	0.35	0.1	2	●		KHP4...JCT
	KHT4R 3013-020-C1	3	4	3.6	43	13	1.35	0.35	0.2	2	●		KHP4...JCT
	KHT4R 4015-010-C2	4	4	3.6	49	15	1.86	0.4	0.1	3	●		KHP4...JCT
	KHT4R 4015-020-C2	4	4	3.6	49	15	1.86	0.4	0.2	3	●		KHP4...JCT
	KHT6R 5020-010-C2	5	6	3.6	58	20	2.35	0.5	0.1	3	●		KHP6...JCT
	KHT6R 5020-020-C2	5	6	3.6	58	20	2.35	0.5	0.2	3	●		KHP6...JCT
	KHT6R 6025-010-C2	6	6	5.6	63	25	2.85	0.6	0.1	3	●		KHP6...JCT
	KHT6R 6025-020-C2	6	6	5.6	63	25	2.85	0.6	0.2	3	●		KHP6...JCT

# Internal Processing-Boring Process

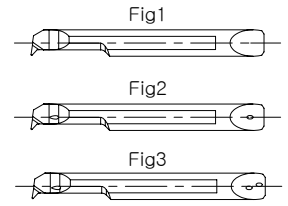
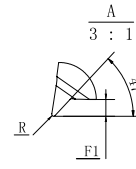
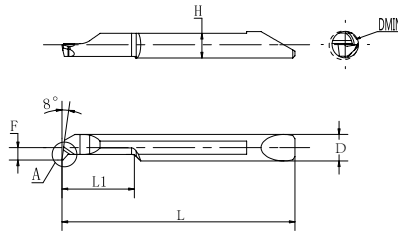
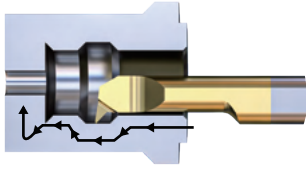
With F-lead chipbreaking slot  
Sharp edge, chips evacuate at front  
For finishing



Shape	Type	Minimum Boring Diameter		Size(mm)								Carbide with PVD Coating		Applicable Holders
		DMIN	D	H	L	L1	F	F1	R	Fig	KHS10M	KXM15S		
	KHP4R 2008-005	2	4	3.6	35	8	0.85	0.25	0.05	1	●		KHP4 ...	
	KHP4R 25125-005	2.5	4	3.6	40	12.5	1.1	0.3	0.05	1	●		KHP4 ...	
	KHP4R 25125-010	2.5	4	3.6	40	12.5	1.1	0.3	0.1	1	●		KHP4 ...	
	KHP4R 3013-005	3	4	3.6	43	13	1.35	0.4	0.05	1	●		KHP4 ...	
	KHP4R 3013-010	3	4	3.6	43	13	1.35	0.4	0.1	1	●		KHP4 ...	
	KHP4R 4015-010	4	4	3.6	49	15	1.86	0.5	0.1	1	●		KHP4 ...	
	KHP4R 4015-020	4	4	3.6	49	15	1.86	0.5	0.2	1	●		KHP4 ...	
	KHP6R 5020-010	5	6	5.6	58	20	2.35	0.7	0.1	1	●		KHP6 ...	
	KHP6R 5020-020	5	6	5.6	58	20	2.35	0.7	0.2	1	●		KHP6 ...	
	KHP6R 6025-010	6	6	5.6	63	25	2.85	0.9	0.1	1	●		KHP6 ...	
	KHP6R 6025-020	6	6	5.6	63	25	2.85	0.9	0.2	1	●		KHP6 ...	
	KHP4R 2008-005-C1	2	4	3.6	35	8	0.85	0.25	0.05	2	●		KHP4 ...JCT	
	KHP4R 25125-005-C1	2.5	4	3.6	40	12.5	1.1	0.3	0.05	2	●		KHP4 ...JCT	
	KHP4R 25125-010-C1	2.5	4	3.6	40	12.5	1.1	0.3	0.1	2	●		KHP4 ...JCT	
	KHP4R 3013-005-C1	3	4	3.6	43	13	1.35	0.4	0.05	2	●		KHP4 ...JCT	
	KHP4R 3013-010-C1	3	4	3.6	43	13	1.35	0.4	0.1	2	●		KHP4 ...JCT	
	KHP4R 4015-010-C2	4	4	3.6	49	15	1.86	0.5	0.1	3	●		KHP4 ...JCT	
	KHP4R 4015-020-C2	4	4	3.6	49	15	1.86	0.5	0.2	3	●		KHP4 ...JCT	
	KHP6R 5020-010-C2	5	6	5.6	58	20	2.35	0.7	0.1	3	●		KHP6 ...JCT	
	KHP6R 5020-020-C2	5	6	5.6	58	20	2.35	0.7	0.2	3	●		KHP6 ...JCT	
KHP6R 6025-010-C2	6	6	5.6	63	25	2.85	0.9	0.1	3	●		KHP6 ...JCT		
KHP6R 6025-020-C2	6	6	5.6	63	25	2.85	0.9	0.2	3	●		KHP6 ...JCT		

Small Diameter Boring Tools  
Start Quick Coordinate Setting

# Internal Processing-Boring Process



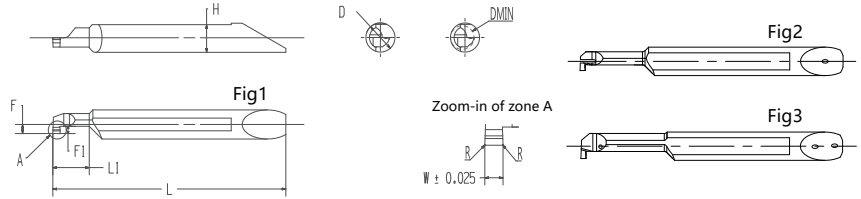
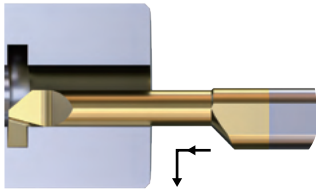
Shape	Type	Minimum Boring Diameter	Size(mm)								Carbide with PVD Coating		Applicable Holders
		DMIN	D	H	L	L1	F	F1	R	Fig	KHS10M	KXM15S	
	KHQ4R 3013-010	3	4	3.6	43	13	1.3	0.6	0.1	1	●		KHP4 ...
	KHQ4R 4015-010	4	4	3.6	49	15	1.8	0.8	0.1	1	●		KHP4 ...
	KHQ4R 4015-020	4	4	3.6	49	15	1.8	0.8	0.2	1	●		KHP4 ...
	KHQ6R 5020-020	5	6	5.6	58	20	2.3	1	0.2	1	●		KHP6 ...
	KHQ6R 6025-020	6	6	5.6	63	25	2.8	1.4	0.2	1	●		KHP6 ...
	KHQ4R 3013-010-C1	3	4	3.6	43	13	1.3	0.6	0.1	2	●		KHP4 ... JCT
	KHQ4R 4015-010-C2	4	4	3.6	49	15	1.8	0.8	0.1	3	●		KHP4 ... JCT
	KHQ4R 4015-020-C2	4	4	3.6	49	15	1.8	0.8	0.2	3	●		KHP4 ... JCT
	KHQ6R 5020-020-C2	5	6	5.6	58	20	2.3	1	0.2	3	●		KHP6 ... JCT
	KHQ6R 6025-020-C2	6	6	5.6	63	25	2.8	1.4	0.2	3	●		KHP6 ... JCT



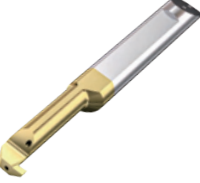

SPT Quick Coordinate Setting Small Diameter Boring Tools

## Symbols of Inner Grooving Tools

KH: Boring Series	G: Grooving Tools	4: Shank Diameter 4	30: Boring Diameter 3.0	05: Width 0.5	-	050: Groove Depth 0.5	-	C2: Double Jet	
		6: Shank Diameter 6	40: Boring Diameter 4.0	075: Width 0.75		100: Groove Depth 1.0		C1: Single Jet	
			50: Boring Diameter 5.0	10: Width 1.0		120: Groove Depth 1.2		Without: Without Jet	
Series	Type	Shank Diameter	Direction	Machinable Diameter of Boring	Tip Width		Machinable Groove Depth		Inner Cooling
<b>KH</b>	<b>G</b>	<b>4</b>	<b>R</b>	<b>30</b>	<b>075</b>	<b>-</b>	<b>080</b>	<b>-</b>	<b>C2</b>

## Internal Processing-Grooving Process

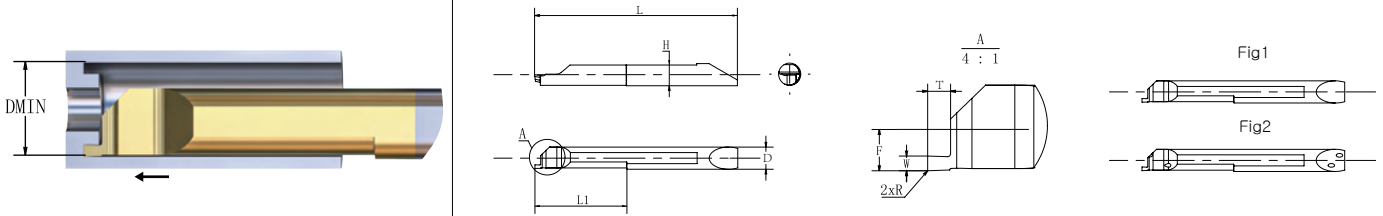


Shape	Type	Minimum Boring Diameter	Size(mm)									Carbide with PVD Coating		Applicable Holders
			DMIN	W	R	D	H	L	L1	F	F1	Fig	KHS10M	
	KHG4R 3005-050	3	0.5	0.05	4	3.6	37	9	1.3	0.5	1	●		KHP4...
	KHG4R 30075-060	3	0.75	0.05	4	3.6	37	9	1.3	0.6	1	●		KHP4...
	KHG4R 3010-070	3	1	0.05	4	3.6	37	9	1.3	0.7	1	●		KHP4...
	KHG4R 4005-050	4	0.5	0.05	4	3.6	40	10	1.75	0.5	1	●		KHP4...
	KHG4R 40075-060	4	0.75	0.05	4	3.6	40	10	1.75	0.6	1	●		KHP4...
	KHG4R 4010-100	4	1	0.05	4	3.6	40	10	1.75	1	1	●		KHP4...
	KHG4R 4015-100	4	1.5	0.05	4	3.6	40	10	1.75	1	1	●		KHP4...
	KHG4R 4020-100	4	2	0.05	4	3.6	40	10	1.75	1	1	●		KHP4...
	KHG6R 50075-120	5	0.75	0.05	6	5.6	53	15	2.35	1.2	1	●		KHP6...
	KHG6R 5010-120	5	1	0.05	6	5.6	53	15	2.35	1.2	1	●		KHP6...
	KHG6R 5015-120	5	1.5	0.05	6	5.6	53	15	2.35	1.2	1	●		KHP6...
	KHG6R 5020-120	5	2	0.05	6	5.6	53	15	2.35	1.2	1	●		KHP6...
	KHG6R 6010-180	6	1	0.05	6	5.6	53	15	2.85	1.8	1	●		KHP6...
	KHG6R 6015-180	6	1.5	0.05	6	5.6	53	15	2.85	1.8	1	●		KHP6...
	KHG6R 6020-180	6	2	0.05	6	5.6	53	15	2.85	1.8	1	●		KHP6...
	KHG4R 3005-050-C1	3	0.5	0.05	4	3.6	37	9	1.3	0.5	2	●		KHP4...JCT
	KHG4R 30075-060-C1	3	0.75	0.05	4	3.6	37	9	1.3	0.6	2	●		KHP4...JCT
	KHG4R 3010-070-C1	3	1	0.05	4	3.6	37	9	1.3	0.7	2	●		KHP4...JCT
	KHG4R 4005-050-C2	4	0.5	0.05	4	3.6	40	10	1.75	0.5	3	●		KHP4...JCT
	KHG4R 40075-060-C2	4	0.75	0.05	4	3.6	40	10	1.75	0.6	3	●		KHP4...JCT
	KHG4R 4010-100-C2	4	1	0.05	4	3.6	40	10	1.75	1	3	●		KHP4...JCT
	KHG4R 4015-100-C2	4	1.5	0.05	4	3.6	40	10	1.75	1	3	●		KHP4...JCT
	KHG4R 4020-100-C2	4	2	0.05	4	3.6	40	10	1.75	1	3	●		KHP4...JCT
	KHG6R 50075-120-C2	5	0.75	0.05	6	5.6	53	15	2.35	1.2	3	●		KHP6...JCT
	KHG6R 5010-120-C2	5	1	0.05	6	5.6	53	15	2.35	1.2	3	●		KHP6...JCT
	KHG6R 5015-120-C2	5	1.5	0.05	6	5.6	53	15	2.35	1.2	3	●		KHP6...JCT
	KHG6R 5020-120-C2	5	2	0.05	6	5.6	53	15	2.35	1.2	3	●		KHP6...JCT
	KHG6R 6010-180-C2	6	1	0.05	6	5.6	53	15	2.85	1.8	3	●		KHP6...JCT
	KHG6R 6015-180-C2	6	1.5	0.05	6	5.6	53	15	2.85	1.8	3	●		KHP6...JCT
	KHG6R 6020-180-C2	6	2	0.05	6	5.6	53	15	2.85	1.8	3	●		KHP6...JCT

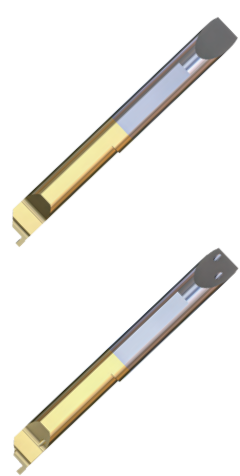
## Symbols of SBT Face Grooving Tools

KH: Boring Series	F: Endface Groove	4: Shank Diameter 4	R: Right Handed	50: Boring Diameter 5.0	05: Width 0.5	-	120: Groove Depth 1.2	-	C2: Double Jet
		6: Shank Diameter 6	L: Left Handed	60: Boring Diameter 6.0	075: Width 0.75		150: Groove Depth 1.5		Without: Without Jet
		Series	Type	Shank Diameter	Direction		Machinable Diameter of Boring		Tip Width
<b>KH</b>	<b>F</b>	<b>4</b>	<b>R</b>	<b>50</b>	<b>10</b>	<b>-</b>	<b>120</b>	<b>-</b>	<b>C2</b>

## Internal Machining-Face Grooving

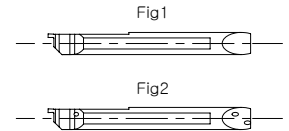
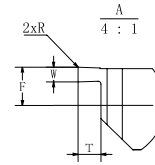
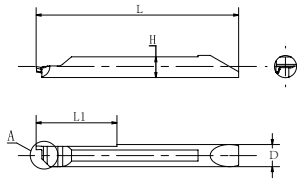
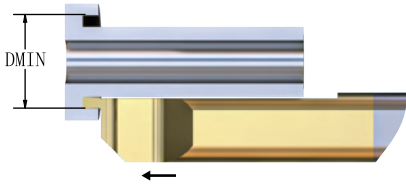


Shape	Type	Minimum Boring Diameter	Size(mm)									Carbide with PVD Coating		Applicable Holders
		DMIN	W	R	D	H	L	L1	F	T	Fig	KHS10M	KXM15S	
	KHF4R 5005-120	5	0.5	0.05	4	3.6	43	15	1.95	1.2	1	●		KHP4...
	KHF4R 50075-150	5	0.75	0.1	4	3.6	43	15	1.95	1.5	1	●		KHP4...
	KHF4R 5010-150	5	1	0.1	4	3.6	43	15	1.95	1.5	1	●		KHP4...
	KHF4R 5015-280	5	1.5	0.1	4	3.6	43	15	1.95	2.8	1	●		KHP4...
	KHF4R 5005-120-C2	5	0.5	0.05	4	3.6	43	15	1.95	1.2	2	●		KHP4...JCT
	KHF4R 50075-150-C2	5	0.75	0.1	4	3.6	43	15	1.95	1.5	2	●		KHP4...JCT
	KHF4R 5010-150-C2	5	1	0.1	4	3.6	43	15	1.95	1.5	2	●		KHP4...JCT
	KHF4R 5015-280-C2	5	1.5	0.1	4	3.6	43	15	1.95	2.8	2	●		KHP4...JCT
	KHF6R 6005-120	6	0.5	0.05	6	5.6	55	22	2.8	1.2	1	●		KHP6...
	KHF6R 60075-150	6	0.75	0.1	6	5.6	55	22	2.8	1.5	1	●		KHP6...
	KHF6R 6010-150	6	1	0.1	6	5.6	55	22	2.8	1.5	1	●		KHP6...
	KHF6R 6015-250	6	1.5	0.1	6	5.6	55	22	2.8	2.5	1	●		KHP6...
	KHF6R 6020-400	6	2	0.1	6	5.6	55	22	2.8	4.0	1	●		KHP6...
	KHF6R 6005-120-C2	6	0.5	0.05	6	5.6	55	22	2.8	1.2	2	●		KHP6...JCT
	KHF6R 60075-150-C2	6	0.75	0.1	6	5.6	55	22	2.8	1.5	2	●		KHP6...JCT
	KHF6R 6010-150-C2	6	1	0.1	6	5.6	55	22	2.8	1.5	2	●		KHP6...JCT
	KHF6R 6015-250-C2	6	1.5	0.1	6	5.6	55	22	2.8	2.5	2	●		KHP6...JCT
	KHF6R 6020-400-C2	6	2	0.1	6	5.6	55	22	2.8	4.0	2	●		KHP6...JCT
	KHF6R 8010-200	8	1	0.1	6	5.6	55	22	2.95	2	1	●		KHP6...
	KHF6R 8015-300	8	1.5	0.1	6	5.6	55	22	2.95	3	1	●		KHP6...
	KHF6R 8020-400	8	2	0.1	6	5.6	55	22	2.95	4	1	●		KHP6...
	KHF6R 8025-500	8	2.5	0.1	6	5.6	55	22	2.95	5	1	●		KHP6...
	KHF6R 8030-600	8	3	0.1	6	5.6	55	22	2.95	6	1	●		KHP6...
	KHF6R 8010-200-C2	8	1	0.1	6	5.6	55	22	2.95	2	2	●		KHP6...JCT
	KHF6R 8015-300-C2	8	1.5	0.1	6	5.6	55	22	2.95	3	2	●		KHP6...JCT
	KHF6R 8020-400-C2	8	2	0.1	6	5.6	55	22	2.95	4	2	●		KHP6...JCT
	KHF6R 8025-500-C2	8	2.5	0.1	6	5.6	55	22	2.95	5	2	●		KHP6...JCT
	KHF6R 8030-600-C2	8	3	0.1	6	5.6	55	22	2.95	6	2	●		KHP6...JCT
	KHF8R 1015-300	10	1.5	0.2	8	7.6	53	22	3.95	3	1	●		KHP8...
	KHF8R 1020-400	10	2	0.2	8	7.6	53	22	3.95	4	1	●		KHP8...
	KHF8R 1025-500	10	2.5	0.2	8	7.6	53	22	3.95	5	1	●		KHP8...
	KHF8R 1030-600	10	3	0.2	8	7.6	53	22	3.95	6	1	●		KHP8...
	KHF8R 1015-300-C2	10	1.5	0.2	8	7.6	53	22	3.95	3	2	●		KHP8...JCT
	KHF8R 1020-400-C2	10	2	0.2	8	7.6	53	22	3.95	4	2	●		KHP8...JCT
	KHF8R 1025-500-C2	10	2.5	0.2	8	7.6	53	22	3.95	5	2	●		KHP8...JCT
	KHF8R 1030-600-C2	10	3	0.2	8	7.6	53	22	3.95	6	2	●		KHP8...JCT



SBT Quick Coordinate Setting Small Diameter Boring Tools

# Internal Machining-Face Grooving



Shape	Type	Minimum Boring Diameter	Size(mm)									Carbide with PVD Coating		Applicable Holders
		DMIN	W	R	D	H	L	L1	F	T	Fig	KHS10M	KXM15S	
	KHF4L 5005-120	5	0.5	0.05	4	3.6	43	15	1.75	1.2	1	●		KHP4...
	KHF4L 50075-150	5	0.75	0.1	4	3.6	43	15	1.75	1.5	1	●		KHP4...
	KHF4L 5010-150	5	1	0.1	4	3.6	43	15	1.75	1.5	1	●		KHP4...
	KHF4L 5015-280	5	1.5	0.1	4	3.6	43	15	1.75	2.8	1	●		KHP4...
	KHF4L 5005-120-C2	5	0.5	0.05	4	3.6	43	15	1.75	1.2	2	●		KHP4...JCT
	KHF4L 50075-150-C2	5	0.75	0.1	4	3.6	43	15	1.75	1.5	2	●		KHP4...JCT
	KHF4L 5010-150-C2	5	1	0.1	4	3.6	43	15	1.75	1.5	2	●		KHP4...JCT
	KHF4L 5015-280-C2	5	1.5	0.1	4	3.6	43	15	1.75	2.8	2	●		KHP4...JCT
	KHF6L 6005-120	6	0.5	0.05	6	5.6	55	22	2.6	1.2	1	●		KHP6...
	KHF6L 60075-150	6	0.75	0.1	6	5.6	55	22	2.6	1.5	1	●		KHP6...
	KHF6L 6010-150	6	1	0.1	6	5.6	55	22	2.6	1.5	1	●		KHP6...
	KHF6L 6015-250	6	1.5	0.1	6	5.6	55	22	2.6	2.5	1	●		KHP6...
	KHF6L 6020-400	6	2	0.1	6	5.6	55	22	2.6	4.0	1	●		KHP6...
	KHF6L 6005-120-C2	6	0.5	0.05	6	5.6	55	22	2.6	1.2	2	●		KHP6...JCT
	KHF6L 60075-150-C2	6	0.75	0.1	6	5.6	55	22	2.6	1.5	2	●		KHP6...JCT
	KHF6L 6010-150-C2	6	1	0.1	6	5.6	55	22	2.6	1.5	2	●		KHP6...JCT
	KHF6L 6015-250-C2	6	1.5	0.1	6	5.6	55	22	2.6	2.5	2	●		KHP6...JCT
	KHF6L 6020-400-C2	6	2	0.1	6	5.6	55	22	2.6	4.0	2	●		KHP6...JCT
	KHF6L 8010-200	8	1	0.1	6	5.6	55	22	2.75	2	1	●		KHP6...
	KHF6L 8015-300	8	1.5	0.1	6	5.6	55	22	2.75	3	1	●		KHP6...
	KHF6L 8020-400	8	2	0.1	6	5.6	55	22	2.75	4	1	●		KHP6...
	KHF6L 8025-500	8	2.5	0.1	6	5.6	55	22	2.75	5	1	●		KHP6...
	KHF6L 8030-600	8	3	0.1	6	5.6	55	22	2.75	6	1	●		KHP6...
	KHF6L 8010-200-C2	8	1	0.1	6	5.6	55	22	2.75	2	2	●		KHP6...JCT
	KHF6L 8015-300-C2	8	1.5	0.1	6	5.6	55	22	2.75	3	2	●		KHP6...JCT
	KHF6L 8020-400-C2	8	2	0.1	6	5.6	55	22	2.75	4	2	●		KHP6...JCT
	KHF6L 8025-500-C2	8	2.5	0.1	6	5.6	55	22	2.75	5	2	●		KHP6...JCT
	KHF6L 8030-600-C2	8	3	0.1	6	5.6	55	22	2.75	6	2	●		KHP6...JCT
	KHF8L 1015-300	10	1.5	0.2	8	7.6	53	22	3.75	3	1	●		KHP8...
	KHF8L 1020-400	10	2	0.2	8	7.6	53	22	3.75	4	1	●		KHP8...
	KHF8L 1025-500	10	2.5	0.2	8	7.6	53	22	3.75	5	1	●		KHP8...
	KHF8L 1030-600	10	3	0.2	8	7.6	53	22	3.75	6	1	●		KHP8...
	KHF8L 1015-300-C2	10	1.5	0.2	8	7.6	53	22	3.75	3	2	●		KHP8...JCT
	KHF8L 1020-400-C2	10	2	0.2	8	7.6	53	22	3.75	4	2	●		KHP8...JCT
	KHF8L 1025-500-C2	10	2.5	0.2	8	7.6	53	22	3.75	5	2	●		KHP8...JCT
	KHF8L 1030-600-C2	10	3	0.2	8	7.6	53	22	3.75	6	2	●		KHP8...JCT

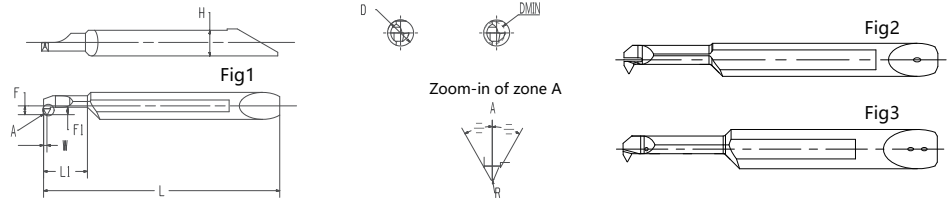
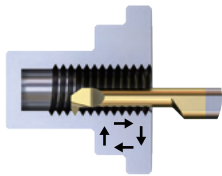


Small Diameter Boring Tools  
Set Quick Coordinate Setting

## Symbols of SBT Threading Tools

KH: Boring Series	I: Threading Tools	4: Shank Diameter 4		30: Boring Diameter 3					C2: Double Jet
		6: Shank Diameter 6		40: Boring Diameter 4.0	003: R0.03				C1: Single Jet
				50: Boring Diameter 5.0	005: R0.05		60A: 60°		Without: Without Jet
<b>Series</b>	<b>Type</b>	<b>Shank Diameter</b>	<b>Direction</b>	<b>Machinable Diameter of Boring</b>	<b>Nose Radius</b>	<b>-</b>	<b>Thread Angle</b>	<b>-</b>	<b>Inner Cooling</b>
<b>KH</b>	<b>I</b>	<b>4</b>	<b>R</b>	<b>30</b>	<b>003</b>	<b>-</b>	<b>60A</b>	<b>-</b>	<b>C2</b>

## Internal Processing- Threading Process



Shape	Type	Minimum Boring Diameter	Size(mm)										Metric Thread		Imperial Thread		Carbide with PVD Coating		Applicable Holders
			D <sub>MIN</sub>	D	H	L	L1	F	F1	W	R	Fig	A	Specifications of Thread	Pitch (mm)	Specifications of Thread	Pitch (teeth per inch)	KH510M	
	KHI4R 30003-60A	3	4	3.6	34	6.5	1.19	1	0.5	0.03Max	1	60°	M4 and above (treading M3.5 and above)	0.35-0.8	No.8-32UNC No.8-36UNF and above	36-32	●		KHP4 ...
	KHI4R 35003-60A	3.5	4	3.6	36	8.5	1.44	1.2	0.6	0.03Max	1	60°	M4.5 and above (treading M4.5 and above)	0.5-1.0	No.10-24UNC No.8-36UNF and above	36-24	●		KHP4 ...
	KHI4R 40005-60A	4	4	3.6	38	10.5	1.69	1.2	0.6	0.05Max	1	60°	M5 and above (treading M6 and above)	0.75-1.25	No.12-24UNC No.12-28UNF and above	28-20	●		KHP4 ...
	KHI6R 50005-60A	5	6	5.6	48	15.5	1.94	1.3	0.65	0.05Max	1	60°	M7 and above (treading M6 and above)	0.75-1.5	1/4-20UNC 1/4-28UNF and above	28-18	●		KHP6 ...
	KHI6R 60005-60A	6	6	5.6	53	19.5	2.44	1.6	0.8	0.05Max	1	60°	M8 and above (treading M7 and above)	0.75-1.5	5/16-18UNC 5/16-24UNF and above	24-16	●		KHP6 ...
	KHI4R 40005-60A-C1	4	4	3.6	38	10.5	1.69	1.2	0.6	0.05Max	2	60°	M5 and above (treading M6 and above)	0.75-1.25	No.12-24UNC No.12-28UNF and above	28-20	●		KHP4 ...JCT
	KHI6R 50005-60A-C2	5	6	5.6	48	15.5	1.94	1.3	0.65	0.05Max	3	60°	M7 and above (treading M6 and above)	0.75-1.5	1/4-20UNC 1/4-28UNF and above	28-18	●		KHP6 ...JCT
	KHI6R 60005-60A-C2	6	6	5.6	53	19.5	2.44	1.6	0.8	0.05Max	3	60°	M8 and above (treading M7 and above)	0.75-1.5	5/16-18UNC 5/16-24UNF and above	24-16	●		KHP6 ...JCT

## Symbols of SBT Tool Holders

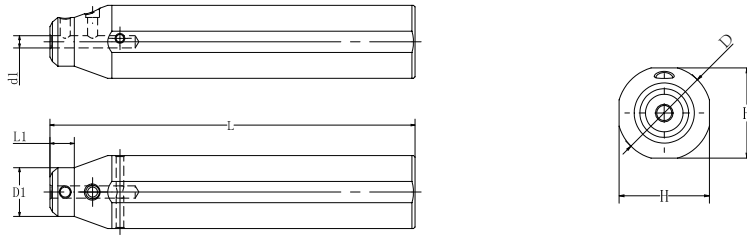
		4: Shank Diameter 4		16: Shank Diameter 16															
		6: Shank Diameter 6		1905: Shank Diameter 19.05															
		8: Shank Diameter 8		20: Shank Diameter 20															
KH: Boring Series	P: Tool Holders			22: Shank Diameter 22										90: Length 90					Without: Without Jet
				25: Shank Diameter 25										100: Length 100					JCT: Inner Cooling
				254: Shank Diameter 25.4										120: Length 120					
<b>Series</b>	<b>Tool Holders</b>	<b>Tool Diameter</b>	<b>-</b>	<b>Shank Diameter</b>	<b>-</b>	<b>Tool Length</b>	<b>-</b>	<b>Inner Cooling</b>											
<b>KH</b>	<b>P</b>	<b>4</b>	<b>-</b>	<b>20</b>	<b>-</b>	<b>100</b>	<b>-</b>	<b>JCT</b>											


## Accessories

Symbols of Tool Holders	Lock Screw (for insert)	Wrench	Lock Screw (for pin)	Wrench	Locating Pin
KHP□-16□□□□	KS-4004-SH	KW-LH2	KS-3002-SH	KW-LH1.5	KLP-2511
KHP□-1905□□□□	KS-4004-SH	KW-LH2	KS-3003-SH	KW-LH1.5	KLP-2511
KHP□-20□□□□	KS-4004-SH	KW-LH2	KS-3003-SH	KW-LH1.5	KLP-2511
KHP□-22□□□□	KS-4004-SH	KW-LH2	KS-3003-SH	KW-LH1.5	KLP-2514
KHP□-25□□□□	KS-4004-SH	KW-LH2	KS-3003-SH	KW-LH1.5	KLP-2514
KHP□-254□□□□	KS-4004-SH	KW-LH2	KS-3003-SH	KW-LH1.5	KLP-2514

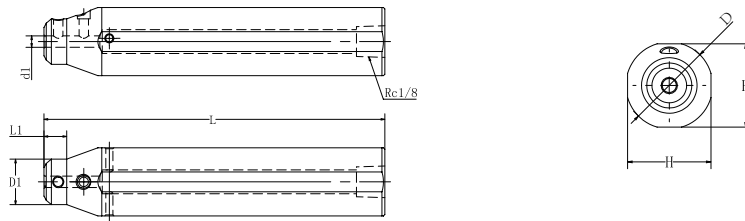
SBT Quick Coordinate Setting Small Diameter Boring Tools


## Internal Processing-Tool Holders



Shape	Type	Stock	Size(mm)						Corresponding Insert
			D	D1	d1	L	L1	H	
	KHP4-16-90		16	13	4	90	8	15	KH□4%□□□
	KHP4-1905-100		19.05	14	4	100	8	18	KH□4%□□□
	KHP4-20-100		20	15	4	100	8	19	KH□4%□□□
	KHP4-22-120		22	17	4	120	8	21	KH□4%□□□
	KHP4-25-120		25	20	4	120	8	24	KH□4%□□□
	KHP4-254-120		25.4	20.4	4	120	8	24.4	KH□4%□□□
	KHP6-16-90		16	13	6	90	8	15	KH□6%□□□
	KHP6-1905-100		19.05	14	6	100	8	18	KH□6%□□□
	KHP6-20-100		20	15	6	100	8	19	KH□6%□□□
	KHP6-22-120		22	17	6	120	8	21	KH□6%□□□
	KHP6-25-120		25	20	6	120	8	24	KH□6%□□□
	KHP6-254-120		25.4	20.4	6	120	8	24.4	KH□6%□□□
	KHP8-1905-100		19.05	15	8	100	8	18	KH□8%□□□
	KHP8-20-100		20	15	8	100	8	19	KH□8%□□□
	KHP8-22-120		22	17	8	120	8	21	KH□8%□□□
	KHP8-25-120		25	20	8	120	8	24	KH□8%□□□
KHP8-254-120		25.4	20.4	8	120	8	24.4	KH□8%□□□	

## Internal Processing-Holders with JCT



Shape	Type	Stock	Size(mm)						Corresponding Insert
			D	D1	d1	L	L1	H	
	KHP4-16-90-JCT		16	13	4	90	8	15	KH□4%□□□
	KHP4-1905-100-JCT		19.05	14	4	100	8	18	KH□4%□□□
	KHP4-20-100-JCT		20	15	4	100	8	19	KH□4%□□□
	KHP4-22-120-JCT		22	17	4	120	8	21	KH□4%□□□
	KHP4-25-120-JCT		25	20	4	120	8	24	KH□4%□□□
	KHP4-254-120-JCT		25.4	20.4	4	120	8	24.4	KH□4%□□□
	KHP6-16-90-JCT		16	13	6	90	8	15	KH□6%□□□
	KHP6-1905-100-JCT		19.05	14	6	100	8	18	KH□6%□□□
	KHP6-20-100-JCT		20	15	6	100	8	19	KH□6%□□□
	KHP6-22-120-JCT		22	17	6	120	8	21	KH□6%□□□
	KHP6-25-120-JCT		25	20	6	120	8	24	KH□6%□□□
	KHP6-254-120-JCT		25.4	20.4	6	120	8	24.4	KH□6%□□□
	KHP8-1905-100-JCT		19.05	15	8	100	8	18	KH□8%□□□
	KHP8-20-100-JCT		20	15	8	100	8	19	KH□8%□□□
	KHP8-22-120-JCT		22	17	8	120	8	21	KH□8%□□□
	KHP8-25-120-JCT		25	20	8	120	8	24	KH□8%□□□
KHP8-254-120-JCT		25.4	20.4	8	120	8	24.4	KH□8%□□□	

SBT Quick Coordinate Setting Small Diameter Boring Tools

## Recommend Parameters For Machining

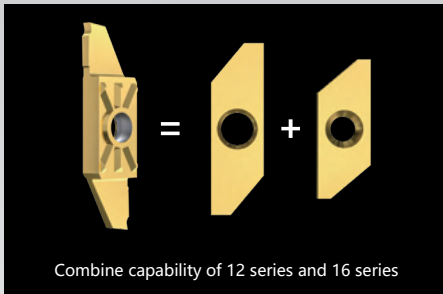
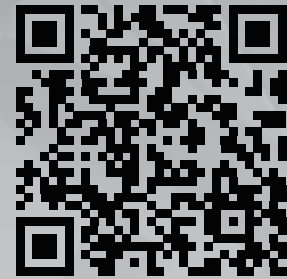
SBT Small Diameter Boring Tools								
	VC (m/min)							
	Symbols of Grades							
	KPM30N	KCP10P	KXM15S	KMS15C	KHS10M	KMS20	KCN10D (DLC Coating)	KCN10 (Carbide without Coating)
<b>P</b> Steel	50-150	50-160	50-150	50-150	50-130			
<b>M</b> Stainless Steel			40-100	40-100	40-80	40-120		
<b>K</b> Cast Iron					50-150			
<b>S</b> Heat Resisting Alloy			30-60	30-60		30-80		
<b>H</b> High-hardness steel					30-60			
<b>N</b> Nonferrous metal							120-250	100-180

Tool Type						
Parameters	KHT Boring Tool	KHP Boring Tool	KHQ Boring Tool	KHG Boring Tool	KHF Boring Tool	KHI Boring Tool
Processing volume $a_p$ $A_p$ (mm)	0.01-0.2	0.01-0.2	0.01-0.2			0.015-0.05
Feeding Speed $f$ (mm/rev)	0.02-0.1	0.02-0.1	0.02-0.1	0.02-0.05	0.02-0.05	

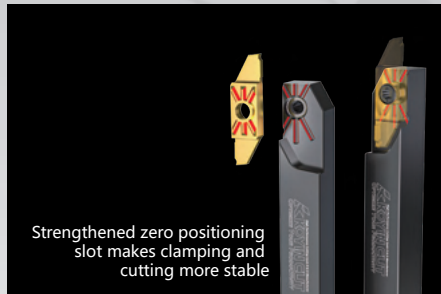
# KX116

KX116 CNC PRECISION AUTOMATIC LATHE SPECIAL  
SMALL PARTS CUTTING TOOL SERIES

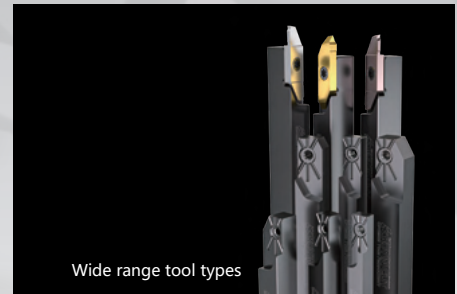
Scan QR code to watch the videos



Combine capability of 12 series and 16 series



Strengthened zero positioning  
slot makes clamping and  
cutting more stable

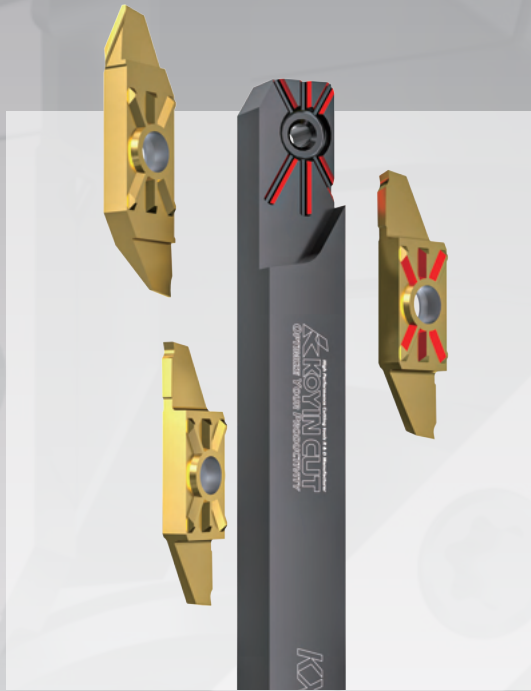


Wide range tool types

## FEATURES AND ADVANTAGES

- Combine capability of 12 series and 16 series
- Multiple tools (parting, grooving, back-turning, threading)
- Grade varies according to different machined materials (stainless steel, titanium alloy, soft iron, carbide, nonferrous and etc.)
- Holders with different specifications (8\*8/10\*10/12\*12/16\*16) and customization are available



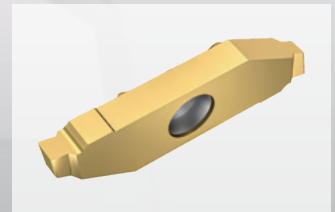
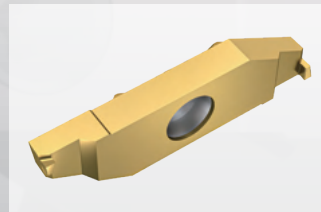
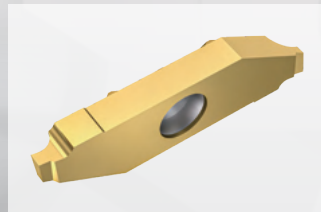
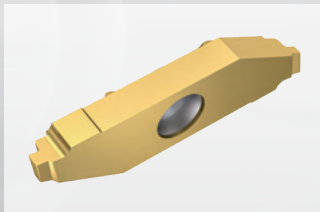


- More stable cutting performance with strengthened zero positioning slot to eliminate longitudinal machining force



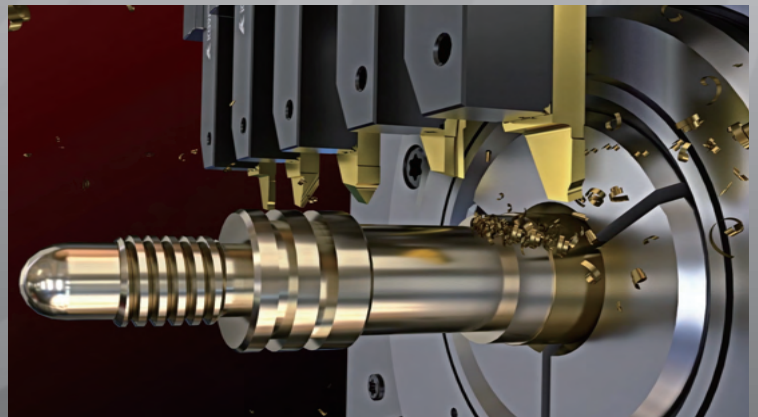
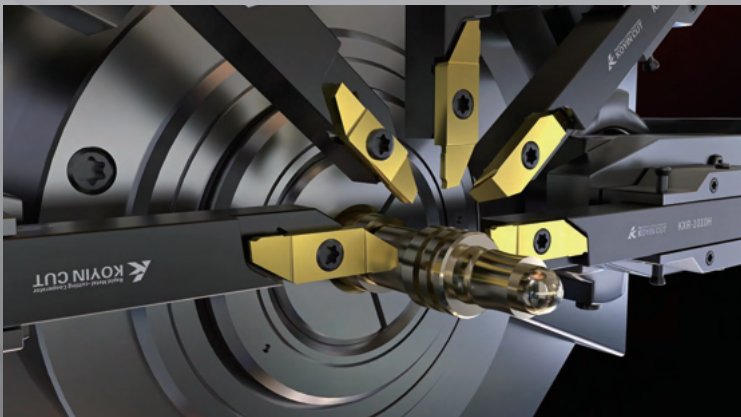
- Precise positioning and repeatable accuracy with strengthened zero positioning slot
- one holder for different inserts

### ■ Display of Customized Tools

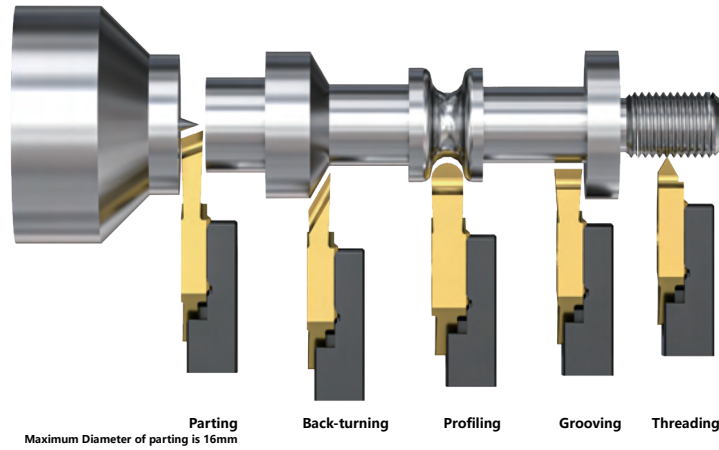


KX16 Tools Dedicated for Precision Small Parts

### ■ Simulated Application Scenario



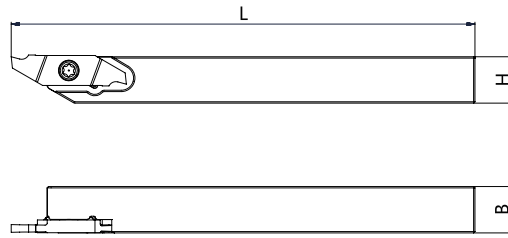
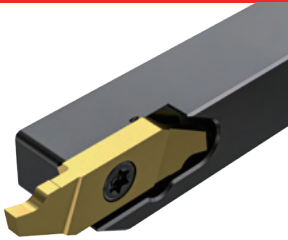
## Processing Application



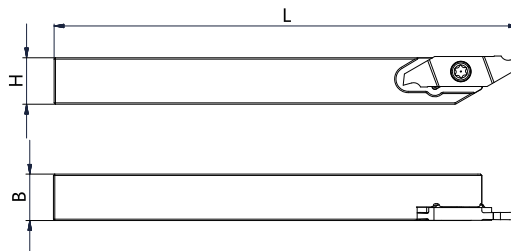
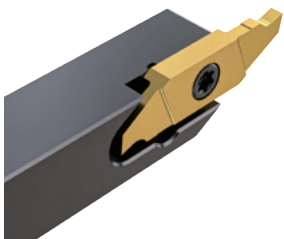
## Symbols of KX116 Tool Holders

	N/A: Standard Holders	R: Right Handed				M : 150
	S: Halved Holders	L: Left Handed				JX : 120
KX116: KX116 Series						J : 110
						H : 100
Series	Halved Holders	Holder Direction	-	Holder Height	Holder Width	Tool Length
KX116	S	R	-	12	12	JX

## Regular Holders



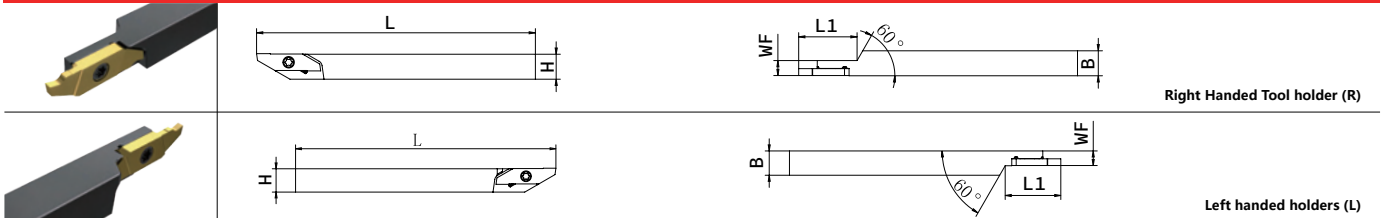
Right Handed Tool holder (R)



Left handed holders (L)

Type	Size(mm)			Accessories		Corresponding Insert
	H	B	L	Screw	Wrenth	
KX116%-0808H	8	8	100	KS-3504-T	KW-T15	KX116□%□□□
KX116%-1010JX	10	10	120	KS-35065-T	KW-T15	KX116□%□□□
KX116%-1212JX	12	12	120	KS-35065-T	KW-T15	KX116□%□□□
KX116%-1616JX	16	16	120	KS-35065-T	KW-T15	KX116□%□□□
KX116%-2020JX	20	20	120	KS-35065-T	KW-T15	KX116□%□□□
KX116%-2525M	25	25	150	KS-35065-T	KW-T15	KX116□%□□□

## Halved Holders



Type	Size(mm)					Accessories		Corresponding Insert
	H	B	WF	L1	L	Screw	Wrench	
KX116S% -0808H	8	8	7.2	26	100	KS-3504-T	KW-T15	KX116□%.□□□
KX116S% -1010JX	10	10	7.2	26	120	KS-3504-T	KW-T15	KX116□%.□□□
KX116S% -1212JX	12	12	7.2	26	120	KS-3504-T	KW-T15	KX116□%.□□□
KX116S% -1616JX	16	16	7.2	26	120	KS-3504-T	KW-T15	KX116□%.□□□

## Symbols of KX116 Tools for Grooving, Circular Grooving, Axial Grooving and Back-turning

Series	Insert Type	Insert Direction	Tip Width	—	Effective Cutting Depth	—	Nose Radius
KX116	G	R	125	—	400	—	005

B: Back-turning Tools  
 BT: Back-turning Tools  
 GT: Back-turning Tools  
 R: Circular Grooving Tools  
 G: Grooving Tools  
 R: Right Handed  
 L: Left Handed  
 050: 0.5  
 125: 1.25  
 280: 2.8  
 400: 4.0  
 035: R0.35  
 005: R0.05

## 116G Grooving Tools

Material	Recommended	Suitable	Applicable
P Soft Steel	◆	◇	◇
Carbon Steel/ Alloy Steel	◆	◇	◇
M Austenitic	◆	◆	◆
Martensitic	◇	◆	◆
K Grey Cast Iron			◇
Ductile Cast Iron			◇
N Nonferrous			◆
S Heat Resisting Alloy			◆
Titanium Alloy			◆
H Hardened Materials			◆

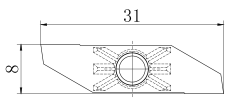
Shape Right Handed Tool	Type	Size			Carbide with PVD Coating						Carbide	
		W	L	R	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX116G% 070-300-005	0.7	3.0	0.05		●	●					
	KX116G% 100-400-005	1.0	4.0	0.05		●	●					
	KX116G% 100-400-010	1.0	4.0	0.1		●	●					
	KX116G% 125-400-005	1.25	4.0	0.05		●	●					
	KX116G% 125-400-010	1.25	4.0	0.1		●	●					
	KX116G% 150-500-005	1.5	5.0	0.05		●	●					
	KX116G% 150-500-010	1.5	5.0	0.1		●	●					
	KX116G% 150-500-020	1.5	5.0	0.2		●	●					
	KX116G% 200-600-005	2.0	6.0	0.05		●	●					
	KX116G% 200-600-010	2.0	6.0	0.1		●	●					
	KX116G% 200-600-020	2.0	6.0	0.2		●	●					
	KX116G% 250-800-005	2.5	8.0	0.05		●	●					
	KX116G% 250-800-010	2.5	8.0	0.1		●	●					
	KX116G% 250-800-020	2.5	8.0	0.2		●	●					
	KX116G% 300-800-005	3.0	8.0	0.05		●	●					
	KX116G% 300-800-010	3.0	8.0	0.1		●	●					
KX116G% 300-800-020	3.0	8.0	0.2		●	●						

Grades: ◆ Recommended ◇ Suitable ◇ Applicable ● Standard Stock

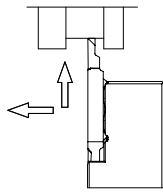
KX116 Tools Dedicated for Precision Small Parts

## 116GT Back-turning Tools

Insert Blank



Application Examples



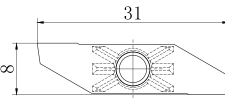
- ◆ Recommended
- ◊ Suitable
- ◇ Applicable

	P	M	K	N	S	H
Soft Steel	◆	◇	◇		◆	◆
Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆
Austenitic	◆	◆	◆	◆	◆	
Martensitic	◇	◆	◆	◆	◆	
Grey Cast Iron				◇		
Ductile Cast Iron				◇		
Nonferrous						◆
Heat Resisting Alloy		◆	◆	◆	◆	
Titanium Alloy		◆	◆	◆	◆	
Hardened Materials			◆			

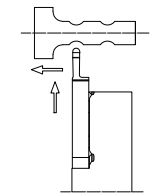
Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide
		W	L	R	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX116GT% 100-250-010	1	2.5	0.1		●	●					
	KX116GT% 125-300-010	1.25	3	0.1		●	●					
	KX116GT% 150-300-010	1.5	3	0.1		●	●					
	KX116GT% 150-300-020	1.5	3	0.2		●	●					
	KX116GT% 175-400-010	1.75	4	0.1		●	●					
	KX116GT% 175-400-020	1.75	4	0.2		●	●					
	KX116GT% 200-400-010	2	4	0.1		●	●					
	KX116GT% 200-400-020	2	4	0.2		●	●					
	KX116GT% 250-600-010	2.5	6	0.1		●	●					
	KX116GT% 250-600-020	2.5	6	0.2		●	●					
KX116GT% 300-700-010	3	7	0.1		●	●						
KX116GT% 300-700-020	3	7	0.2		●	●						

## 116R Circular Grooving Tools

Insert Blank



Application Examples



- ◆ Recommended
- ◊ Suitable
- ◇ Applicable

	P	M	K	N	S	H
Soft Steel	◆	◇	◇		◆	◆
Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆
Austenitic	◆	◆	◆	◆	◆	
Martensitic	◇	◆	◆	◆	◆	
Grey Cast Iron				◇		
Ductile Cast Iron				◇		
Nonferrous						◆
Heat Resisting Alloy		◆	◆	◆	◆	
Titanium Alloy		◆	◆	◆	◆	
Hardened Materials			◆			

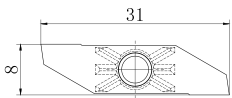
Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide
		W	L	R	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX116R% 070-300-035	0.7	3.0	0.35		●	●					
	KX116R% 100-400-050	1	4.0	0.5		●	●					
	KX116R% 150-500-075	1.5	5.0	0.75		●	●					
	KX116R% 200-600-100	2	6.0	1		●	●					
	KX116R% 250-800-125	2.5	8.0	1.25		●	●					
	KX116R% 300-800-150	3	8.0	1.5		●	●					

Grades: ◆ Recommended ◊ Suitable ◇ Applicable

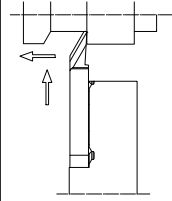
● Standard Stock

# 116B Back-turning Tools

Insert Blank



Application Examples



- ◆ Recommended
- ◊ Suitable
- ◇ Applicable

P	Soft Steel	◆	◇	◆		◆	◆						
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆						
M	Austenitic	◆	◆	◆		◆	◆						
	Martensitic	◇	◆	◆		◆	◆						
K	Grey Cast Iron			◇									
	Ductile Cast Iron			◇									
N	Nonferrous											◆	◆
S	Heat Resisting Alloy			◆	◆	◆	◆						
	Titanium Alloy			◆	◆	◆	◆						
H	Hardened Materials			◆									

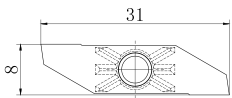
Shape Right Handed Tool	Type	Size				Carbide with PVD Coating						Carbide	
		W	L	R	B	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX116B% 025-280-005	0.25	2.8	<0.05	2		●	●					
	KX116B% 030-460-005	0.3	4.6	<0.05	4.1		●	●					
	KX116B% 030-460-010	0.3	4.6	<0.1	4.1		●	●					
	KX116B% 030-460-015	0.3	4.6	<0.15	4.1		●	●					
	KX116B% 030-630-005	0.3	6.3	<0.05	4.5		●	●					
	KX116B% 030-630-010	0.3	6.3	<0.1	4.5		●	●					
	KX116B% 030-630-015	0.3	6.3	<0.15	4.5		●	●					

Grades: ◆ Recommended ◊ Suitable ◇ Applicable ● Standard Stock

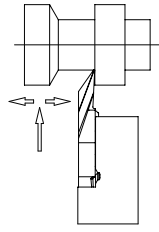
KX116 Tools Dedicated for Precision Small Parts

## 116BT Back-turning Tools

Insert Blank



Application Examples



◆ Recommended  
◊ Suitable  
◇ Applicable

P	Soft Steel	◆	◇	◆		◆	◆						
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆						
M	Austenitic	◆	◆	◆		◆	◆						
	Martensitic	◇	◆	◆		◆	◆						
K	Grey Cast Iron			◇									
	Ductile Cast Iron			◇									
N	Nonferrous										◆	◆	
S	Heat Resisting Alloy			◆	◆	◆	◆						
	Titanium Alloy			◆	◆	◆	◆						
H	Hardened Materials						◆						

Shape Right Handed Tool	Type	Size					Carbide with PVD Coating						Carbide		
		W	L	R	B	L1	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10	
	KX116BTR 320-450-005	3.2	7.5	<0.05	4.5	4		●	●						
	KX116BTR 320-440-010	3.2	7.5	<0.1	4.4	3.9		●	●						
	KX116BTR 320-420-020	3.2	7.5	<0.2	4.2	3.7		●	●						

Grades: ◆ Recommended ◊ Suitable ◇ Applicable ● Standard Stock

## Symbols of KX116 Flat Parting Tools

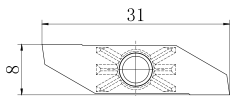
KX116: KX116 Series	C: Parting	R: Right Handed L: Left Handed	050: 0.5 125: 1.25	-	S: R0.03-R0.05 P: R0.08
Series	Insert Type	Insert Direction	Tip Width	-	Nose Radius
<b>KX116</b>	<b>C</b>	<b>R</b>	<b>125</b>	<b>-</b>	<b>S</b>

## Symbols of KX116 Parting Tools With Lead Angle

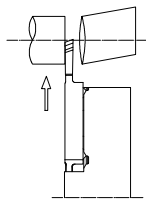
KX116: KX116 Series	C: Parting	R: Right Handed L: Left Handed	050: 0.5 125: 1.25	20D: 20° 16D: 16° 11D: 11°	R: Right Leaded L: Left Leaded	-	N: Without Chipbreaking Slot and Nose Radius S: R0.03-R0.05 P: R0.08
Series	Insert Type	Insert Direction	Tip Width	Lead Angle	Lead Direction	-	Nose Radius/other
<b>KX116</b>	<b>C</b>	<b>R</b>	<b>125</b>	<b>16D</b>	<b>R</b>	<b>-</b>	<b>S</b>

# 116C Parting Tools

Insert Blank



Application Examples



- ◆ Recommended
- ◊ Suitable
- ◇ Applicable

P	Soft Steel	◆	◇	◆		◆	◆						
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆						
M	Austenitic	◆	◆	◆	◆	◆	◆						
	Martensitic	◇	◆	◆	◆	◆	◆						
K	Grey Cast Iron				◇								
	Ductile Cast Iron				◇								
N	Nonferrous										◆	◆	
S	Heat Resisting Alloy			◆	◆	◆	◆						
	Titanium Alloy			◆	◆	◆	◆						
H	Hardened Materials				◆								

Shape Right Handed Tool	Type	Size				Carbide with PVD Coating							Carbide
		W	DMax	R	D	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
flat 	KX116C%L 050-S	0.5	5	0.03-0.05	0°		●	●					
	KX116C%L 070-S	0.7	8	0.03-0.05	0°		●	●					
	KX116C%L 100-S	1	12	0.03-0.05	0°		●	●					
	KX116C%L 125-S	1.25	12	0.03-0.05	0°		●	●					
	KX116C%L 150-S	1.5	16	0.03-0.05	0°		●	●					
KX116C%L 200-S	2	16	0.03-0.05	0°		●	●						
flat strengthened edge 	KX116C%L 100-P	1	12	0.08±0.01	0°		●	●					
	KX116C%L 150-P	1.5	16	0.08±0.01	0°		●	●					
	KX116C%L 200-P	2	16	0.08±0.01	0°		●	●					
with right lead angle 	KX116C%L 100-11DR-S	1	12	0.03-0.05	11°		●	●					
	KX116C%L 125-11DR-S	1.25	12	0.03-0.05	11°		●	●					
	KX116C%L 150-11DR-S	1.5	16	0.03-0.05	11°		●	●					
with right lead angle strengthened edge 	KX116C%L 100-11DR-P	1	12	0.08±0.01	11°		●	●					
	KX116C%L 125-11DR-P	1.25	12	0.08±0.01	11°		●	●					
	KX116C%L 150-11DR-P	1.5	16	0.08±0.01	11°		●	●					
with right lead angle 	KX116C%L 050-16DR-S	0.5	5	0.03-0.05	16°		●	●					
	KX116C%L 070-16DR-S	0.7	8	0.03-0.05	16°		●	●					
	KX116C%L 100-16DR-S	1	12	0.03-0.05	16°		●	●					
	KX116C%L 125-16DR-S	1.25	12	0.03-0.05	16°		●	●					
	KX116C%L 150-16DR-S	1.5	16	0.03-0.05	16°		●	●					
	KX116C%L 200-16DR-S	2	16	0.03-0.05	16°		●	●					
with right lead angle strengthened edge 	KX116C%L 100-16DR-P	1	12	0.08±0.01	16°		●	●					
	KX116C%L 150-16DR-P	1.5	16	0.08±0.01	16°		●	●					
	KX116C%L 200-16DR-P	2	16	0.08±0.01	16°		●	●					
with right lead angle without chipbreaking slot 	KX116C%L 070-20DR-N	0.7	8	0	20°		●	●					
	KX116C%L 100-20DR-N	1	12	0	20°		●	●					
	KX116C%L 150-20DR-N	1.5	16	0	20°		●	●					

Grades: ◆ Recommended ◊ Suitable ◇ Applicable ● Standard Stock

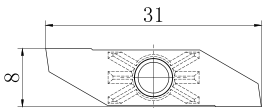
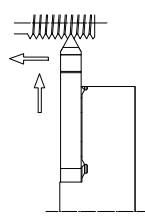
NOTE: KX116C%L 200-200-P, Relief angle is needed for holders

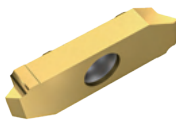
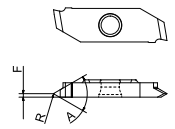
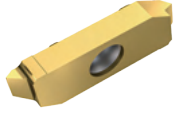
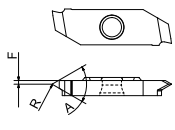
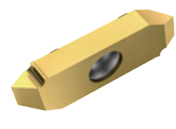
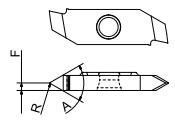
KX116 Tools Dedicated for Precision Small Parts

# Symbols of KX116 Threading Tools

KX116: KX116 Series	T: Threading	R: Right Handed	040: 0.4		A: Left				005: R0.05
		L: Left Handed	080: 0.8		B: Right		55: 55°		010: R0.1
			165: 1.65		N: Central		60: 60°		020: R0.2
Series	Insert Type	Insert Direction	Tip Width	—	Blade Shape	—	Thread Angle	—	Nose Radius
<b>KX116</b>	<b>T</b>	<b>R</b>	<b>040</b>	<b>—</b>	<b>A</b>	<b>—</b>	<b>60</b>	<b>—</b>	<b>005</b>

# 116T Threading Tools

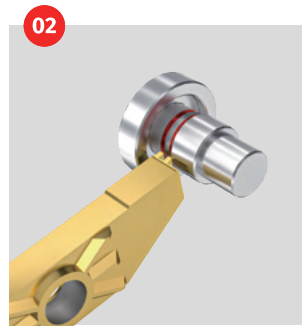
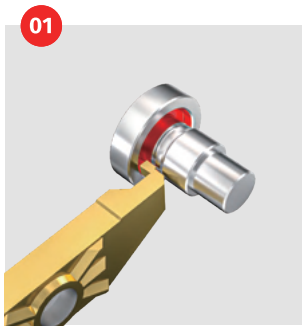
Insert Blank 	Application Examples 	Recommended Suitable Applicable	P	Soft Steel	◆	◇	◆		◆	◆		
				Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆		
			M	Austenitic	◆	◆	◆	◆	◆			
				Martensitic	◇	◆	◆	◆	◆			
			K	Grey Cast Iron			◇					
				Ductile Cast Iron			◇					
			N	Nonferrous								◆
S	Heat Resisting Alloy					◆	◆	◆				
	Titanium Alloy					◆	◆	◆				
H	Hardened Materials						◆					

Shape Right Handed Tool	Type	Size						Carbide with PVD Coating						Carbide
		F	A	R	Pitch (mm)	Teeth /inch	KPM30N	KXM15S	KH510M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
 	KX116T % 040-A-60-005	0.4	60°	0.05	0.2-0.75	127-34		●	●					
	KX116T % 040-A-60-010	0.4	60°	0.1	0.2-0.75	127-34		●	●					
	KX116T % 040-A-60-020	0.4	60°	0.2	0.2-0.75	127-34		●	●					
	KX116T % 080-A-60-005	0.8	60°	0.05	0.4-1.25	63-21		●	●					
	KX116T % 080-A-60-010	0.8	60°	0.1	0.4-1.25	63-21		●	●					
	KX116T % 080-A-60-020	0.8	60°	0.2	0.4-1.25	63-21		●	●					
	KX116T % 080-A-55-005	0.8	55°	0.05		40-16		●	●					
	KX116T % 080-A-55-010	0.8	55°	0.1		24-20		●	●					
 	KX116T % 040-B-60-005	0.4	60°	0.05	0.2-0.75	127-34		●	●					
	KX116T % 040-B-60-010	0.4	60°	0.1	0.2-0.75	127-34		●	●					
	KX116T % 040-B-60-020	0.4	60°	0.2	0.2-0.75	127-34		●	●					
	KX116T % 080-B-60-005	0.8	60°	0.05	0.4-1.25	63-21		●	●					
	KX116T % 080-B-60-010	0.8	60°	0.1	0.4-1.25	63-21		●	●					
	KX116T % 080-B-60-020	0.8	60°	0.2	0.4-1.25	63-21		●	●					
	KX116T % 080-B-55-005	0.8	55°	0.05		40-16		●	●					
	KX116T % 080-B-55-010	0.8	55°	0.1		24-20		●	●					
 	KX116T % 165-N-60-010	1.65	60°	0.1	1.0-1.5	25-17		●	●					
	KX116T % 165-N-60-020	1.65	60°	0.2	1.0-1.5	25-17		●	●					
	KX116T % 165-N-55-010	1.65	55°	0.1		24-10		●	●					
	KX116T % 165-N-55-020	1.65	55°	0.2		14-10		●	●					

Grades: ◆ Recommended    ◇ Suitable    ◇ Applicable    ● Standard Stock

for Precision Small Parts  
KX116 Tools Dedicated

## Display of Customized Inserts



Customize according to needs  
especially suitable for automotive components,  
small parts of medical apparatus, watch and smartphone

## Recommend Parameters For Machining-KX116

### 116GT Back-turning Tools

Edge Width	Radial Feed f(mm/rev)	Parameters for Cross Feed
1.0-1.5	0.01-0.05	AP: W*0.2 f: 0.01-0.03
1.75-2.5	0.02-0.08	AP: W*0.2 f: 0.02-0.07
3	0.02-0.1	AP: W*0.2 f: 0.02-0.11

### 116G Grooving Tools

Edge Width	Feeding Speed f(mm/rev)
0.7-1.25	0.01-0.05
1.5-3.0	0.02-0.1

### 116R Circular Grooving Tools

Edge Width	Feeding Speed f(mm/rev)
0.7-1.0	0.01-0.05
1.5-3.0	0.02-0.1

### 116C Parting Tools

Edge width	Feeding Speed f(mm/rev)
0.5-1.0	0.008-0.04
1.25-2	0.015-0.06

### 116B Back-turning Tools

Cutting Depth Ap(mm)	Feeding Speed f(mm/rev)
0.05-6.0	0.02-0.08

### 116T Threading Tools

Type	Cutting Depth Ap(mm)
A Type	0.02-0.05
B Type	0.02-0.05
N Type	0.03-0.08

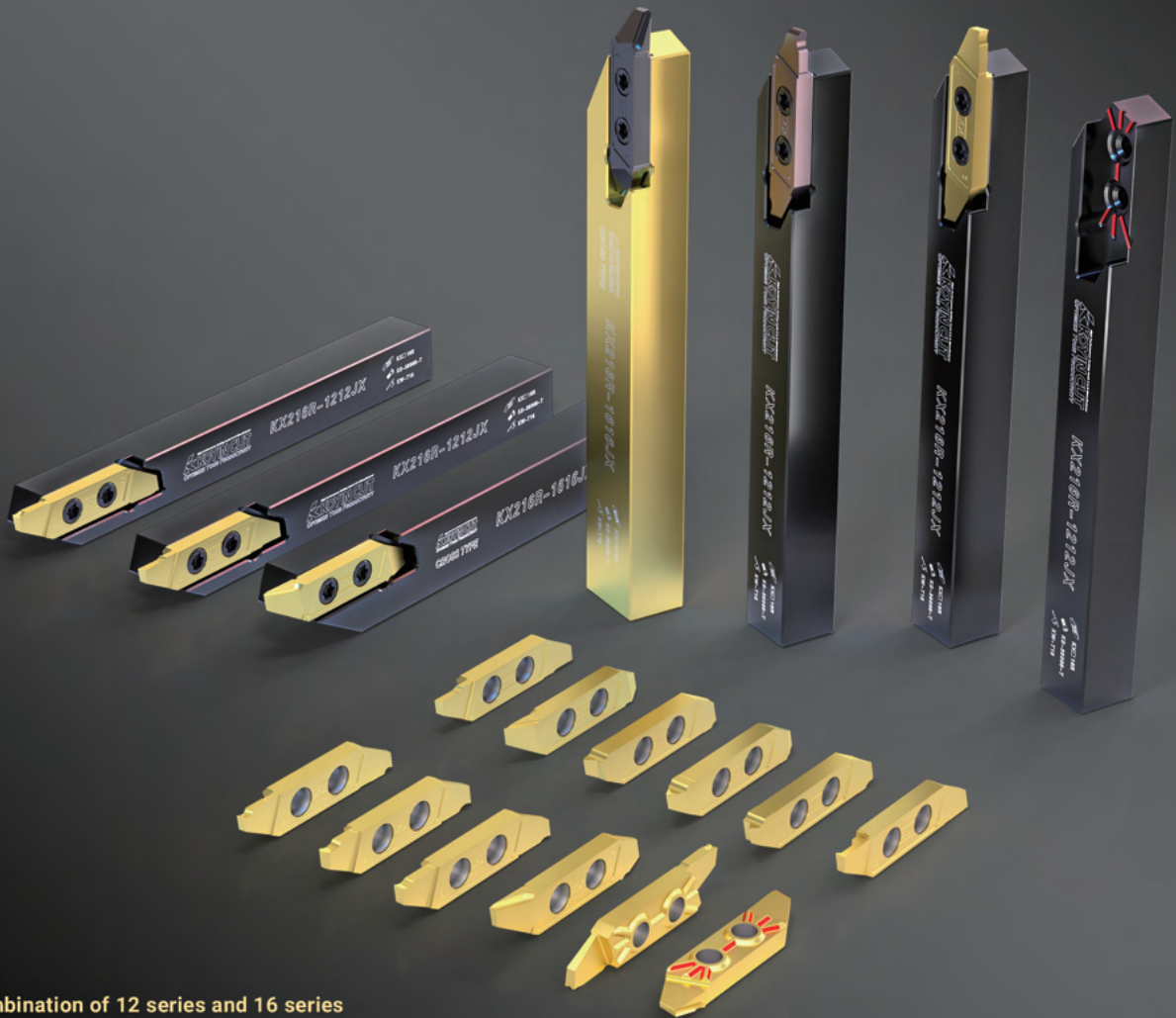
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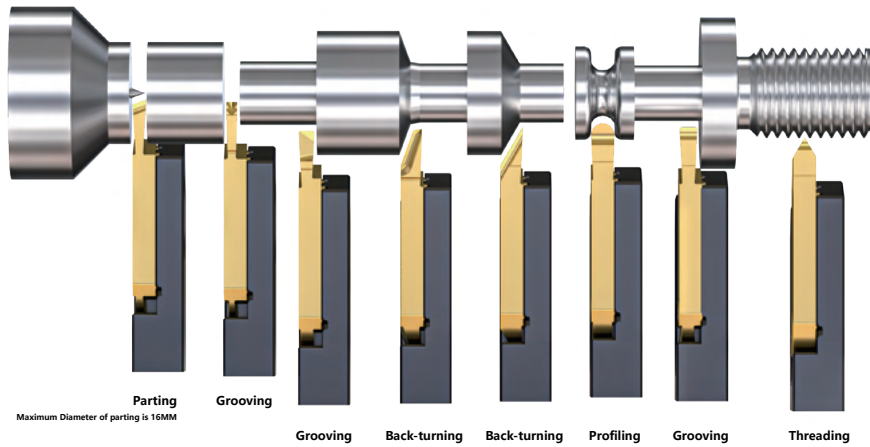
## KX216 SERIES

KX216 Tools Dedicated for Precision Small Parts



- Combination of 12 series and 16 series
- Double lock screws, 14 locating slots, improved clamping and stability, more efficient
- Various types including parting, grooving, side grooving, back turning, threading and customizations
- Rich grade selections can handle various processed materials (stainless steel, alloy, soft iron, non-ferrous etc.)
- Various specifications and sizes (12\*12/16\*16/20\*20/25\*25), as well as customizations

## Processing Application

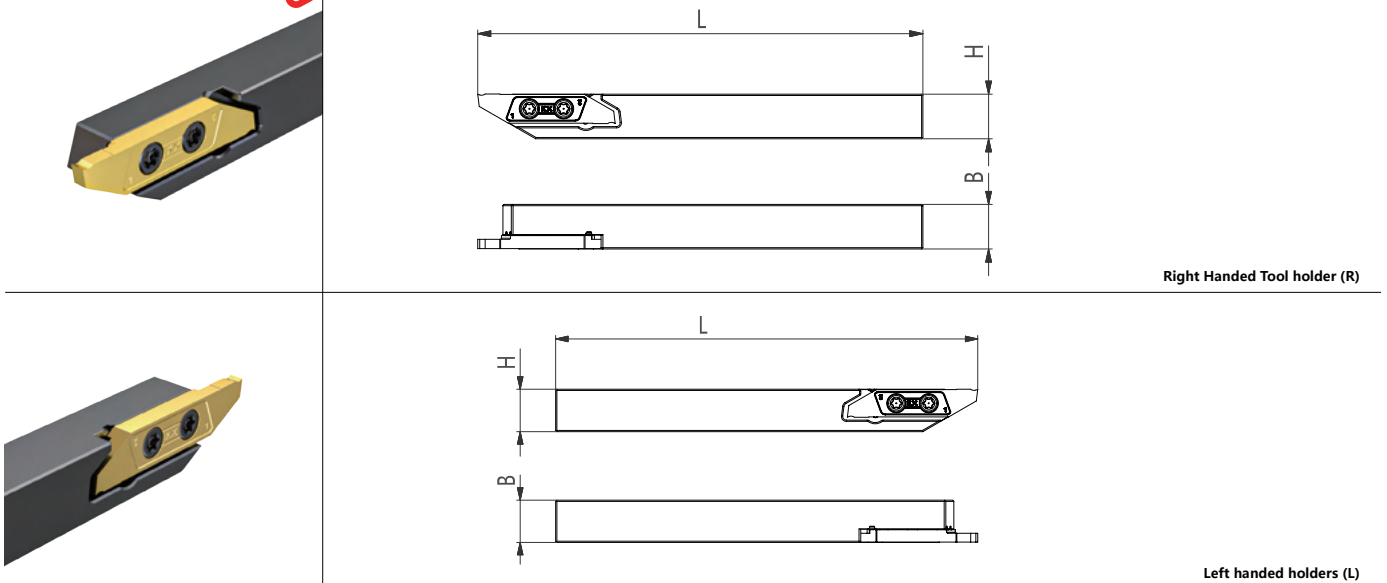


## Symbols of KX216 Tool Holders

						M : 150
						JX : 120
						J : 110
						H : 100
KX216: KX216 Series	N/A: Standard Holders S: Halved Holders	R: Right Handed L: Left Handed				
Series	Halved Holders	Holder Direction	-	Holder Height	Holder Width	Tool Length
KX216	S	R	-	12	12	JX

## Regular Holders

**New**



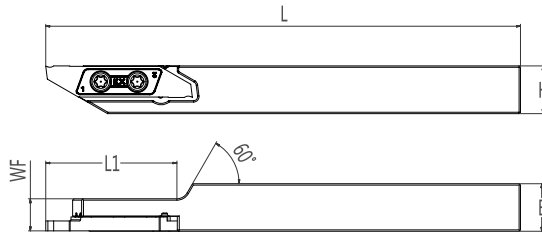
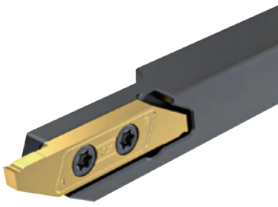
Right Handed Tool holder (R)

Left handed holders (L)

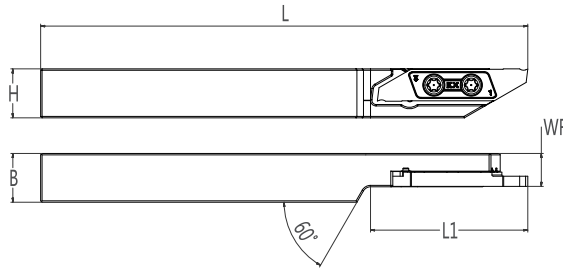
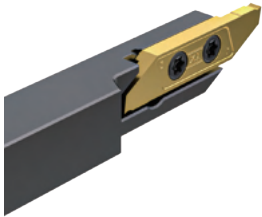
Type	Size(mm)			Accessories		Corresponding Insert
	H	B	L	Screw	Wrench	
KX216% -0808H	8	8	100	KS-3504-T	KW-T15	KX216□%.□□□
KX216% -1010JX	10	10	120	KS-35065-T	KW-T15	KX216□%.□□□
KX216% -1212JX	12	12	120	KS-35065-T	KW-T15	KX216□%.□□□
KX216% -1616JX	16	16	120	KS-35065-T	KW-T15	KX216□%.□□□
KX216% -2020JX	20	20	120	KS-35065-T	KW-T15	KX216□%.□□□
KX216% -2525M	25	25	150	KS-35065-T	KW-T15	KX216□%.□□□

# Halved Holders

**New**



Right Handed Tool holder (R)



Left handed holders (L)

Type	Size(mm)					Accessories		Corresponding Insert
	H	B	WF	L1	L	Screw	Wrenth	
KX216S% -0808H	8	8	7.2	26	100	KS-3504-T	KW-T15	KX216 □ % □ □ □
KX216S% -1010JX	10	10	7.2	26	120	KS-3504-T	KW-T15	KX216 □ % □ □ □
KX216S% -1212JX	12	12	7.2	26	120	KS-3504-T	KW-T15	KX216 □ % □ □ □
KX216S% -1616JX	16	16	7.2	26	120	KS-3504-T	KW-T15	KX216 □ % □ □ □

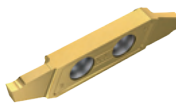
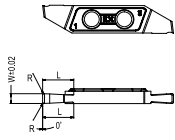
## Symbols of KX216 Grooving, Circular Grooving and Back-turning

	B: Back-turning Tools								
	BT: Back-turning Tools								
	GT: Axial Grooving Tools								
	R: Circular Grooving Tools	R: Right Handed	050 : 0.5		280 : 2.8		035 : R0.35		
KX216: KX216 Series	G: Grooving Tools	L: Left Handed	125 : 1.25		400 : 4.0		005 : R0.05		BF: BFGeometry
<b>Series</b>	<b>Halved Holders</b>	<b>Insert Direction</b>	<b>Tip Width</b>	<b>—</b>	<b>Nose Radius</b>	<b>—</b>	<b>Cutting Depth</b>	<b>—</b>	<b>Geometry</b>
KX216	G	R	125	—	400	—	005	—	BF

## 216G Grooving Tools

New

<p>Insert Blank</p> 	<p>Application Examples</p> 	<p>◆ Recommended</p> <p>◇ Suitable</p> <p>◇ Applicable</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00aaff; color: white;">P</td> <td>Soft Steel</td> <td>◆</td><td>◇</td><td>◇</td><td></td><td>◆</td><td>◆</td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #00aaff; color: white;"></td> <td>Carbon Steel/ Alloy Steel</td> <td>◆</td><td>◇</td><td>◇</td><td></td><td>◆</td><td>◆</td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #ffff00; color: black;">M</td> <td>Austenitic</td> <td>◆</td><td>◆</td><td>◆</td><td>◆</td><td>◆</td><td>◆</td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #ffff00; color: black;"></td> <td>Martensitic</td> <td>◇</td><td>◆</td><td>◆</td><td>◆</td><td>◆</td><td>◆</td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #ff0000; color: white;">K</td> <td>Grey Cast Iron</td> <td></td><td></td><td></td><td></td><td>◇</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #ff0000; color: white;"></td> <td>Ductile Cast Iron</td> <td></td><td></td><td></td><td></td><td>◇</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #00ff00; color: black;">N</td> <td>Nonferrous</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>◆</td><td>◆</td> </tr> <tr> <td style="background-color: #8b4513; color: white;">S</td> <td>Heat Resisting Alloy</td> <td></td><td></td><td></td><td>◆</td><td>◆</td><td>◆</td><td>◆</td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #8b4513; color: white;"></td> <td>Titanium Alloy</td> <td></td><td></td><td></td><td>◆</td><td>◆</td><td>◆</td><td>◆</td><td></td><td></td><td></td> </tr> <tr> <td style="background-color: #666666; color: white;">H</td> <td>Hardened Materials</td> <td></td><td></td><td></td><td></td><td></td><td>◆</td><td></td><td></td><td></td><td></td> </tr> </table>	P	Soft Steel	◆	◇	◇		◆	◆						Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆					M	Austenitic	◆	◆	◆	◆	◆	◆						Martensitic	◇	◆	◆	◆	◆	◆					K	Grey Cast Iron					◇							Ductile Cast Iron					◇						N	Nonferrous									◆	◆	S	Heat Resisting Alloy				◆	◆	◆	◆					Titanium Alloy				◆	◆	◆	◆				H	Hardened Materials						◆				
P	Soft Steel	◆	◇	◇		◆	◆																																																																																																																				
	Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆																																																																																																																				
M	Austenitic	◆	◆	◆	◆	◆	◆																																																																																																																				
	Martensitic	◇	◆	◆	◆	◆	◆																																																																																																																				
K	Grey Cast Iron					◇																																																																																																																					
	Ductile Cast Iron					◇																																																																																																																					
N	Nonferrous									◆	◆																																																																																																																
S	Heat Resisting Alloy				◆	◆	◆	◆																																																																																																																			
	Titanium Alloy				◆	◆	◆	◆																																																																																																																			
H	Hardened Materials						◆																																																																																																																				

Shape Right Handed Tool	Type	Size			Carbide with PVD Coating						Carbide	
		W	L	R	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
 	KX216G %/ 070-300-005	0.7	3	0.05		●	●					
	KX216G %/ 100-400-005	1	4	0.05		●	●					
	KX216G %/ 100-400-010	1	4	0.1		●	●					
	KX216G %/ 125-400-005	1.25	4	0.05		●	●					
	KX216G %/ 125-400-010	1.25	4	0.1		●	●					
	KX216G %/ 150-500-005	1.5	5	0.05		●	●					
	KX216G %/ 150-500-010	1.5	5	0.1		●	●					
	KX216G %/ 150-500-020	1.5	5	0.2		●	●					
	KX216G %/ 200-600-005	2	6	0.05		●	●					
	KX216G %/ 200-600-010	2	6	0.1		●	●					
	KX216G %/ 200-600-020	2	6	0.2		●	●					
	KX216G %/ 250-800-005	2.5	8	0.05		●	●					
	KX216G %/ 250-800-010	2.5	8	0.1		●	●					
	KX216G %/ 250-800-020	2.5	8	0.2		●	●					
	KX216G %/ 300-800-005	3	8	0.05		●	●					
	KX216G %/ 300-800-010	3	8	0.1		●	●					
KX216G %/ 300-800-020	3	8	0.2		●	●						

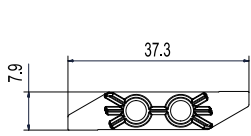
Grades: ◆ Recommended    ◇ Suitable    ◇ Applicable    ● Standard Stock

KX216 Tools Dedicated for Precision Small Parts

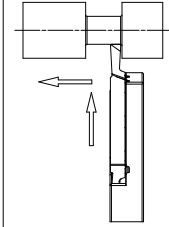
## 216GT Back-turning Tools

**New**

Insert Blank



Application Examples



- ◆ Recommended
- ◇ Suitable
- ◇ Applicable

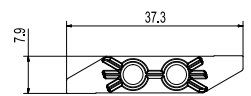
P	Soft Steel	◆	◇	◇		◆	◆					
	Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆					
M	Austenitic	◆	◆	◆	◆	◆						
	Martensitic	◇	◆	◆	◆	◆						
K	Grey Cast Iron				◇							
	Ductile Cast Iron				◇							
N	Nonferrous										◆	◆
S	Heat Resisting Alloy				◆	◆	◆	◆				
	Titanium Alloy				◆	◆	◆	◆				
H	Hardened Materials											

Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide	
		W	L	R	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCNT0D	KCNT10	
	KX216GTR 100-250-010	1	2.5	0.1		●	●						
	KX216GTR 125-300-010	1.25	3	0.1		●	●						
	KX216GTR 150-300-010	1.5	3	0.1		●	●						
	KX216GTR 150-300-020	1.5	3	0.2		●	●						
	KX216GTR 175-400-010	1.75	4	0.1		●	●						
	KX216GTR 175-400-020	1.75	4	0.2		●	●						
	KX216GTR 200-400-010	2	4	0.1		●	●						
	KX216GTR 200-400-020	2	4	0.2		●	●						
	KX216GTR 250-600-010	2.5	6	0.1		●	●						
	KX216GTR 250-600-020	2.5	6	0.2		●	●						
	KX216GTR 300-700-010	3	7	0.1		●	●						
KX216GTR 300-700-020	3	7	0.2		●	●							

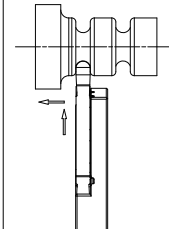
## 216R Circular Grooving Tools

**New**

Insert Blank



Application Examples



- ◆ Recommended
- ◇ Suitable
- ◇ Applicable

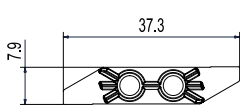
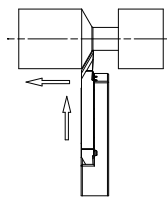

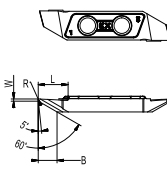
P	Soft Steel	◆	◇	◇		◆	◆					
	Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆					
M	Austenitic	◆	◆	◆	◆	◆						
	Martensitic	◇	◆	◆	◆	◆						
K	Grey Cast Iron						◇					
	Ductile Cast Iron						◇					
N	Nonferrous										◆	◆
S	Heat Resisting Alloy					◆	◆	◆	◆			
	Titanium Alloy					◆	◆	◆	◆			
H	Hardened Materials											

Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide	
		W	L	R	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCNT0D	KCNT10	
	KX216R% 070-300-035	0.7	3	0.35		●	●						
	KX216R% 100-400-050	1	4	0.5		●	●						
	KX216R% 150-500-075	1.5	5	0.75		●	●						
	KX216R% 200-600-100	2	6	1		●	●						
	KX216R% 250-800-125	2.5	8	1.25		●	●						
	KX216R% 300-800-150	3	8	1.5		●	●						

Grades: ◆ Recommended ◇ Suitable ◇ Applicable ● Standard Stock

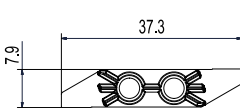
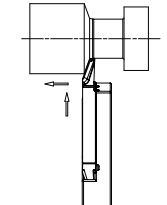

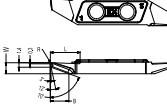
# 216B Back-turning Tools

**New**

Insert Blank 	Application Examples 	Recommended Suitable Applicable	P	Soft Steel	◆	◇	◇		◆	◆				
				Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆				
			M	Austenitic	◆	◆	◆	◆	◆					
				Martensitic	◇	◆	◆	◆	◆					
			K	Grey Cast Iron				◇						
				Ductile Cast Iron				◇						
			N	Nonferrous								◆	◆	
			S	Heat Resisting Alloy				◆	◆	◆	◆			
				Titanium Alloy				◆	◆	◆	◆			
			H	Hardened Materials					◇					
Shape Right Handed Tool	Type	Size				Carbide with PVD Coating							Carbide	
		W	L	R	B	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10	
 	KX216B % 030-280-005	0.3	2.8	<0.05	4.5		●	●						
	KX216B % 040-460-005	0.4	4.6	<0.05	4.5		●	●						
	KX216B % 040-460-010	0.4	4.6	<0.1	4.5		●	●						
	KX216B % 040-460-015	0.4	4.6	<0.15	4.5		●	●						
	KX216B % 040-630-005	0.4	6.3	<0.05	4.5		●	●						
	KX216B % 040-630-010	0.4	6.3	<0.1	4.5		●	●						
	KX216B % 040-630-015	0.4	6.3	<0.15	4.5		●	●						

# 216BF Back-turning Tools

**New**

Insert Blank 	Application Examples 	Recommended Suitable Applicable	P	Soft Steel	◆	◇	◇		◆	◆				
				Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆				
			M	Austenitic	◆	◆	◆	◆	◆					
				Martensitic	◇	◆	◆	◆	◆					
			K	Grey Cast Iron				◇						
				Ductile Cast Iron				◇						
			N	Nonferrous								◆	◆	
			S	Heat Resisting Alloy				◆	◆	◆	◆			
				Titanium Alloy				◆	◆	◆	◆			
			H	Hardened Materials					◇					
Shape Right Handed Tool	Type	Size				Carbide with PVD Coating							Carbide	
		W	L	R	B	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10	
 	KX216B % 030-630-005-BF	3.3	6.3	<0.05	5.0		●	●						
	KX216B % 030-630-010-BF	3.3	6.3	<0.1	5.0		●	●						
	KX216B % 030-630-015-BF	3.3	6.3	<0.15	5.0		●	●						

Grades: ◆ Recommended ◆ Suitable ◇ Applicable

● Standard Stock

KX216 Tools Dedicated for Precision Small Parts

# 216BT Back-turning Tools

**New**

Shape Right Handed Tool	Type	Size					Carbide with PVD Coating						Carbide	
		W	L	R	B	L1	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KX216BTR 340-470-005	3.4	7.5	<0.05	4.7	4		●	●					
	KX216BTR 340-460-010	3.4	7.5	<0.1	4.6	3.9		●	●					
	KX216BTR 340-435-020	3.4	7.5	<0.2	4.35	3.65		●	●					
	KX216BTR 340-385-040	3.4	7.5	<0.4	3.85	3.15		●	●					

Grades: ◆ Recommended   ◆ Suitable   ◇ Applicable   ● Standard Stock

## Symbols of KX216 Flat Parting Tools

KX216	Insert Type	Insert Direction	Tip Width	Nose Radius
<b>KX216</b>	<b>C</b>	<b>R</b>	<b>125</b>	<b>S</b>

## Symbols of KX216 Parting Tools With Lead Angle

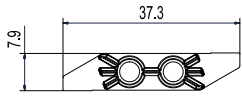
KX216	Insert Type	Insert Direction	Tip Width	Lead Angle	Lead Direction	Nose Radius/other
<b>KX216</b>	<b>C</b>	<b>R</b>	<b>125</b>	<b>16D</b>	<b>R</b>	<b>S</b>

for Precision Small Parts  
KX216 Tools Dedicated

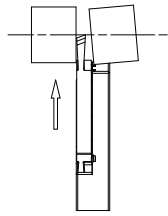
# 216C Parting Tools

**New**

Insert Blank



Application Examples



◆ Recommended

◇ Suitable

◇ Applicable

P	Soft Steel	◆	◇	◆		◆	◆						
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆						
M	Austenitic	◆	◆	◆		◆	◆						
	Martensitic	◇	◆	◆		◆	◆						
K	Grey Cast Iron					◇							
	Ductile Cast Iron					◇							
N	Nonferrous										◆	◆	
S	Heat Resisting Alloy						◆	◆	◆	◆			
	Titanium Alloy						◆	◆	◆	◆			
H	Hardened Materials							◆					

Shape Right Handed Tool	Type	Size				Carbide with PVD Coating						Carbide	
		W	DMax	R	D	KPM30N	KXM15S	KH510M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
flat 	KX216C %/ 050-S	0.5	5	0.03-0.05	0°		●	●					
	KX216C %/ 070-S	0.7	8	0.03-0.05	0°		●	●					
	KX216C %/ 100-S	1	12	0.03-0.05	0°		●	●					
	KX216C %/ 125-S	1.25	12	0.03-0.05	0°		●	●					
	KX216C %/ 150-S	1.5	16	0.03-0.05	0°		●	●					
	KX216C %/ 200-S	2	16	0.03-0.05	0°		●	●					
flat strengthened edge 	KX216C %/ 100-P	1	12	0.08±0.01	0°		●	●					
	KX216C %/ 150-P	1.5	16	0.08±0.01	0°		●	●					
	KX216C %/ 200-P	2	16	0.08±0.01	0°		●	●					
	KX216C %/ 200-180-P	2	18	0.08±0.01	0°		●	●					
with right lead angle 	KX216C %/ 100-11DR-S	1	12	0.03-0.05	11°		●	●					
	KX216C %/ 125-11DR-S	1.25	12	0.03-0.05	11°		●	●					
	KX216C %/ 150-11DR-S	1.5	16	0.03-0.05	11°		●	●					
with right lead angle strengthened edge 	KX216C %/ 100-11DR-P	1	12	0.08±0.01	11°		●	●					
	KX216C %/ 125-11DR-P	1.25	12	0.08±0.01	11°		●	●					
	KX216C %/ 150-11DR-P	1.5	16	0.08±0.01	11°		●	●					
with right lead angle 	KX216C %/ 050-16DR-S	0.5	5	0.03-0.05	16°		●	●					
	KX216C %/ 070-16DR-S	0.7	8	0.03-0.05	16°		●	●					
	KX216C %/ 100-16DR-S	1	12	0.03-0.05	16°		●	●					
	KX216C %/ 125-16DR-S	1.25	12	0.03-0.05	16°		●	●					
	KX216C %/ 150-16DR-S	1.5	16	0.03-0.05	16°		●	●					
	KX216C %/ 200-16DR-S	2	16	0.03-0.05	16°		●	●					
with right lead angle strengthened edge 	KX216C %/ 100-16DR-P	1	12	0.08±0.01	16°		●	●					
	KX216C %/ 150-16DR-P	1.5	16	0.08±0.01	16°		●	●					
	KX216C %/ 200-16DR-P	2	16	0.08±0.01	16°		●	●					
with right lead angle without chipbreaking slot 	KX216C %/ 070-20DR-N	0.7	8	0	20°		●	●					
	KX216C %/ 100-20DR-N	1	12	0	20°		●	●					
	KX216C %/ 150-20DR-N	1.5	16	0	20°		●	●					

Grades: ◆ Recommended ◇ Suitable ◇ Applicable ● Standard Stock

NOTE: KX216C %/ 200-180-P, Relief angle is needed for holders

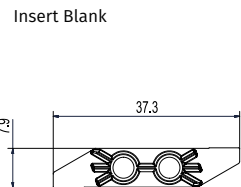
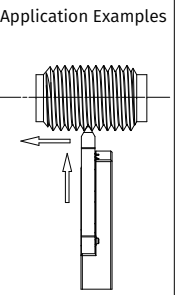
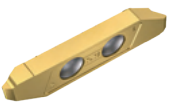
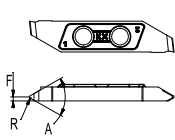
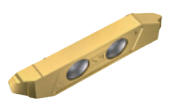
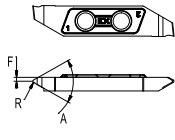
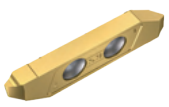
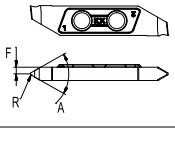
KX216 Tools Dedicated for Precision Small Parts

## Symbols of KX216 Threading Tools

KX216: KX216 Series	T: Threading	R: Right Handed	040: 0.4		A: Left				005: R0.05
		L: Left Handed	080: 0.8		B: Right		55: 55°		010: R0.1
			165: 1.65		N: Central		60: 60°		020: R0.2
Series	Insert Type	Insert Direction	Tip Width	—	Blade Shape	—	Thread Angle	—	Nose Radius
<b>KX216</b>	<b>T</b>	<b>R</b>	<b>040</b>	<b>—</b>	<b>A</b>	<b>—</b>	<b>60</b>	<b>—</b>	<b>005</b>

## 216T Threading Tools

**New**

Insert Blank 	Application Examples 	Recommended Suitable Applicable	P	Soft Steel	◆	◇	◆		◆	◆						
			P	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆						
			M	Austenitic	◆	◆	◆	◆	◆							
			M	Martensitic	◇	◆	◆	◆	◆							
			K	Grey Cast Iron			◇									
			K	Ductile Cast Iron			◇									
			N	Nonferrous									◆	◆		
			S	Heat Resisting Alloy			◆	◆	◆	◆						
			S	Titanium Alloy			◆	◆	◆	◆						
			H	Hardened Materials			◆									
Shape Right Handed Tool	Type	Size					Carbide with PVD Coating						Carbide			
		F	A	R	Pitch (mm)	Teeth /inch	KPM30N	KXMT15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10		
 	KX216T % 040-A-60-005	0.4	60°	0.05	0.2-0.75	127-34		●	●							
	KX216T % 040-A-60-010	0.4	60°	0.1	0.2-0.75	127-34		●	●							
	KX216T % 040-A-60-020	0.4	60°	0.2	0.2-0.75	127-34		●	●							
	KX216T % 080-A-60-005	0.8	60°	0.05	0.4-1.25	63-21		●	●							
	KX216T % 080-A-60-010	0.8	60°	0.1	0.4-1.25	63-21		●	●							
	KX216T % 080-A-60-020	0.8	60°	0.2	0.4-1.25	63-21		●	●							
	KX216T % 080-A-55-005	0.8	55°	0.05		40-16		●	●							
	KX216T % 080-A-55-010	0.8	55°	0.1		40-16		●	●							
 	KX216T % 040-B-60-005	0.4	60°	0.05	0.2-0.75	127-34		●	●							
	KX216T % 040-B-60-010	0.4	60°	0.1	0.2-0.75	127-34		●	●							
	KX216T % 040-B-60-020	0.4	60°	0.2	0.2-0.75	127-34		●	●							
	KX216T % 080-B-60-005	0.8	60°	0.05	0.4-1.25	63-21		●	●							
	KX216T % 080-B-60-010	0.8	60°	0.1	0.4-1.25	63-21		●	●							
	KX216T % 080-B-60-020	0.8	60°	0.2	0.4-1.25	63-21		●	●							
	KX216T % 080-B-55-005	0.8	55°	0.05		40-16		●	●							
	KX216T % 080-B-55-010	0.8	55°	0.1		24-20		●	●							
 	KX216T % 165-N-60-010	1.65	60°	0.1	1.0-1.5	25-17		●	●							
	KX216T % 165-N-60-020	1.65	60°	0.2	1.0-1.5	25-17		●	●							
	KX216T % 165-N-55-010	1.65	55°	0.1		24-10		●	●							
	KX216T % 165-N-55-020	1.65	55°	0.2		14-10		●	●							

Grades: ◆ Recommended ◇ Suitable ◇ Applicable ● Standard Stock

# Recommend Parameters For Machining-KX216

## 216GT Back-turning Tools

Edge Width	Radial Feed f(mm/rev)	Parameters for Cross Feed
1.0-1.5	0.01-0.05	AP: W*0.2 f: 0.02-0.05
1.75-2.5	0.02-0.08	AP: W*0.2 f: 0.03-0.1
3	0.02-0.1	AP: W*0.2 f: 0.03-0.15

## 216G Grooving Tools

Edge Width	Feeding Speed f(mm/rev)
0.7-1.25	0.01-0.05
1.5-3.0	0.02-0.1

## 216R Circular Grooving Tools

Edge Width	Feeding Speed f(mm/rev)
0.7-1.0	0.01-0.05
1.5-3.0	0.02-0.1

## 216C parting Tools

Edge Width	Feeding Speed f(mm/rev)
0.5-1.0	0.008-0.04
1.25-2	0.015-0.06

## 216B Back-turning Tools

Cutting Depth Ap(mm)	Feeding Speed f(mm/rev)
0.05-6.0	0.02-0.08

## 216T Threading Tools

Type	Cutting Depth Ap(mm)
A Type	0.02-0.05
B Type	0.02-0.05
N Type	0.03-0.08

## 216BF Back-turning tools

Cutting Depth Ap(mm)	Feeding Speed f(mm/rev)
0.05-6.0	0.04-0.1

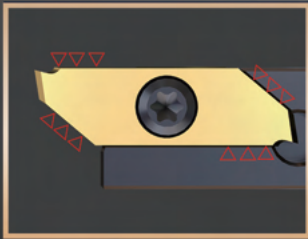
Scan QR code to watch the videos



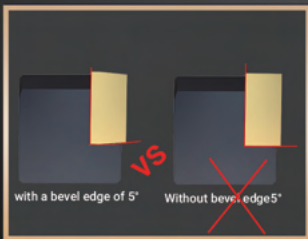
High Performance Cutting tools R & D Manufacturer  
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# KSI12/16 SERIES

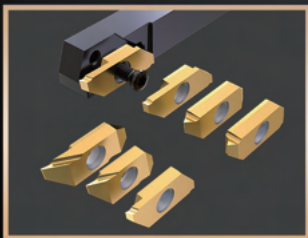
## KSI12/16 Tools For Small Parts



Precision full lapped



Stable clamping with 5°



One holder for all inserts



Small parts  
KSI12 Tools for

## Symbols of KSI Tool Holders

KSI: KSI Series	12: 12 Type	R: Right Handed			M: 150			
	16: 16 Type	L: Left Handed			JX: 120			
						J: 110		
						H: 100	S: Halved	
Series	Insert Size	Holder Direction	Holder Height	Holder Width	-	Tool Length	-	Others
<b>KSI</b>	<b>12</b>	<b>R</b>	<b>12</b>	<b>12</b>	<b>-</b>	<b>J</b>	<b>-</b>	<b>S</b>

## Symbols of KSI Tools for Grooving, Circular Grooving, Axial Grooving and Back-turning

KSI: KSI Series	G: Grooving Tools			070: 0.7	300: 3.0	R005: R0.05
	GT: Side Grooving Tools	12: 12 Type	R: Right Handed	100: 1.0	400: 4.0	R010: R0.1
		16: 16 Type	L: Left Handed	125: 1.25	550: 5.5	R020: R0.2
Series	Insert Type	Insert Size	Insert Direction	Tip Width	Cutting Depth	Nose Radius
<b>KSI</b>	<b>GT</b>	<b>12</b>	<b>R</b>	<b>125</b>	<b>300</b>	<b>R005</b>

## Symbols of KSI Flat Parting Tools

KSI: KSI Series			12: 12 Type	R: Right Handed	050: 0.5	S: R0.03-R0.05	
	C: Parting			L: Left Handed	125: 1.25	P: R0.08	
Series	Insert Type	Insert Size	Insert Direction	Tip Width	-	Nose Radius	
<b>KSI</b>	<b>C</b>	<b>12</b>	<b>R</b>	<b>125</b>	<b>-</b>	<b>S</b>	

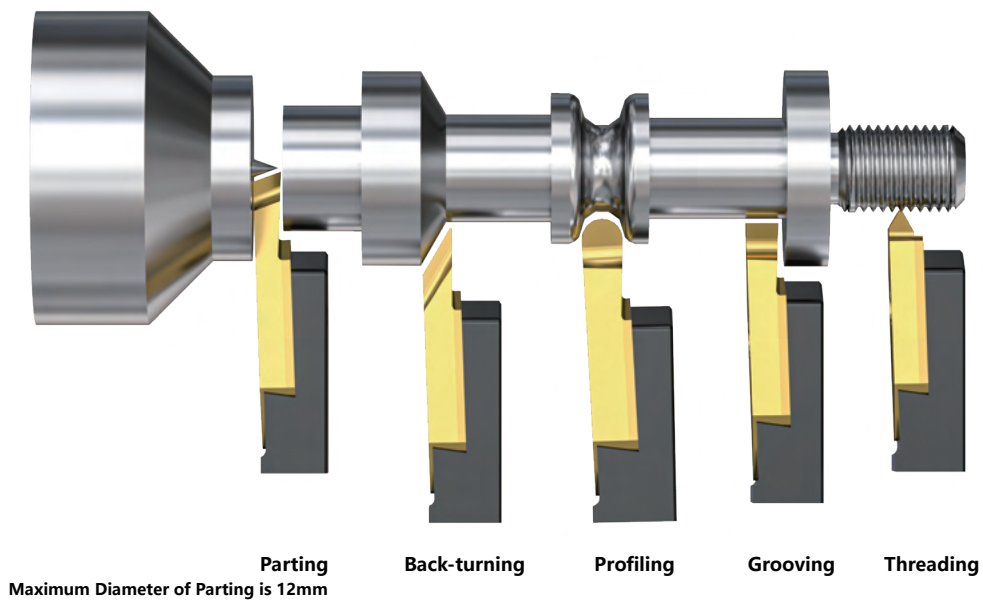
## Symbols of KSI Parting Tools With Lead Angle

KSI: KSI Series	C: Parting	12: 12 Type	R: Right Handed	050: 0.5	20D: 20°	N: Without Chipbreaking Slot and Nose Radius	
		16: 16 Type	L: Left Handed	125: 1.25	16D: 16°	R: With Right Lead Angle	S: R0.03-R0.05
				11D: 11°	L: With Left Lead Angle		P: R0.08
Series	Insert Type	Insert Size	Insert Direction	Tip Width	Lead Angle	Lead Direction	Nose Radius/other
<b>KSI</b>	<b>C</b>	<b>12</b>	<b>R</b>	<b>125</b>	<b>16D</b>	<b>R</b>	<b>S</b>

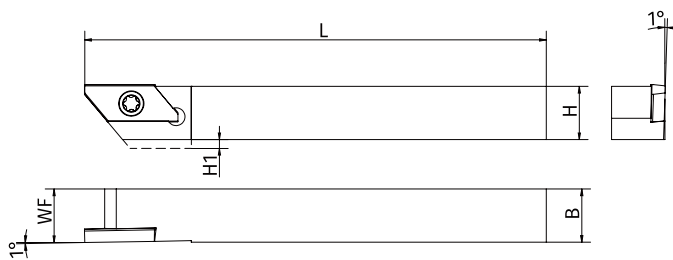
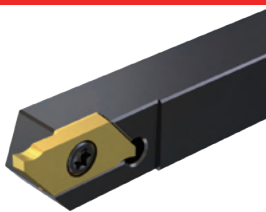
## Symbols of KSI Threading Tools

KSI: KSI Series	T: Threading	12: 12 Type	R: Right Handed	040: 0.4	A: Left	005: R0.05	
		16: 16 Type	L: Left Handed	080: 0.8	B: Right	010: R0.1	015: R0.15
				165: 1.65	N: Central	55: 55°	020: R0.2
Series	Insert Type	Insert Size	Insert Direction	Tip Width	Blade Shape	Thread Angle	Nose Radius
<b>KSI</b>	<b>T</b>	<b>12</b>	<b>R</b>	<b>040</b>	<b>A</b>	<b>60</b>	<b>010</b>

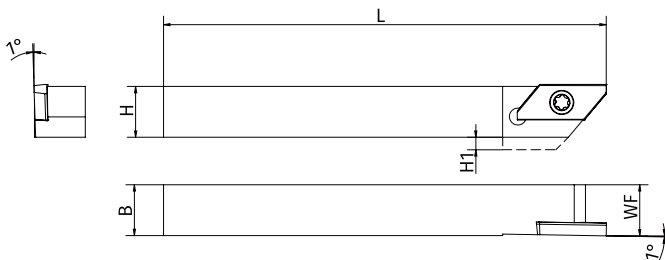
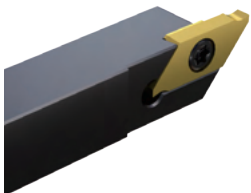
## Application Examples of 12 Series



## Tool Holders of 12 Series



Right Handed Tool holder (R)



Left handed holders (L)

### Type

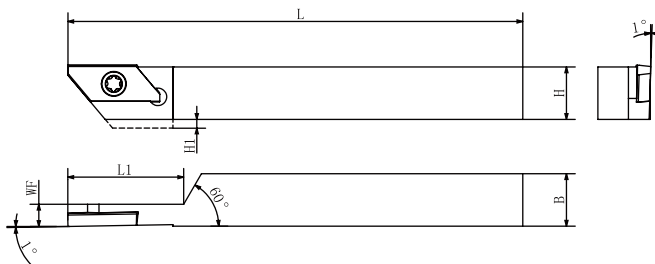
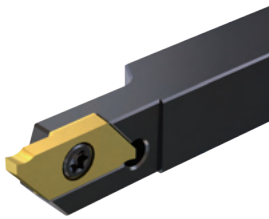
### Size(mm)

### Accessories

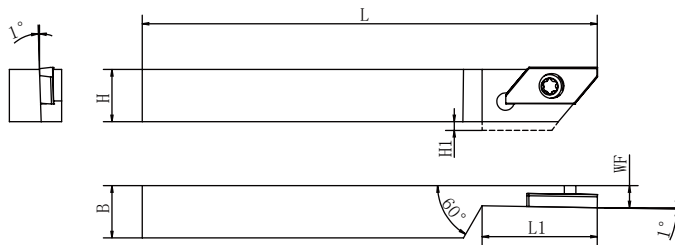
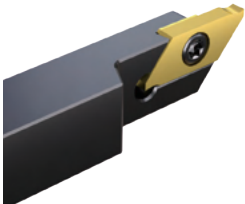
### Corresponding Insert

Type	Size(mm)					Accessories		Corresponding Insert
	H	H1	B	WF	L	Screw	Wrenth	
KSI12% -1010J	10	2	10	10	110	KS-35065-T	KW-T15	KSI□12% □□□
KSI12% -1212J	12	0	12	12	110	KS-35065-T	KW-T15	KSI□12% □□□
KSI12% -1616J	16	0	16	16	110	KS-35065-T	KW-T15	KSI□12% □□□
KSI12% -2020J	20	0	20	20	110	KS-35065-T	KW-T15	KSI□12% □□□

## 12 Series-Halved Holders



Right Handed Tool holder (R)



Left handed holders (L)

Type	Size(mm)						Accessories		Corresponding Insert
	H	H1	B	WF	L	L1	Screw	Wrench	
KS12% -1010-J-S	10	2	10	7.2	110	22	KS-3504-T	KW-T15	KS□12% □□□
KS12% -1212-J-S	12	0	12	7.2	110	26	KS-3504-T	KW-T15	KS□12% □□□

## 12 Series-Grooving Tools

Insert Blank 	Application Examples 	<p>◆ Recommended</p> <p>◊ Suitable</p> <p>◇ Applicable</p>	P	Soft Steel	◆	◇	◇		◆	◆		
				Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆		
			M	Austenitic	◆	◆	◆	◆	◆			
				Martensitic	◇	◆	◆	◆	◆			
			K	Grey Cast Iron			◇					
				Ductile Cast Iron			◇					
			N	Nonferrous							◆	◆
			S	Heat Resisting Alloy		◆	◆	◆	◆			
				Titanium Alloy		◆	◆	◆	◆			
			H	Hardened Materials			◆					

Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide
		W	L	R	KPM30N	KKM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KSIG12% 070-300-R005	0.7	3.0	0.05		●	●					
	KSIG12% 100-400-R005	1.0	4.0	0.05		●	●					
	KSIG12% 100-400-R010	1.0	4.0	0.1		●	●					
	KSIG12% 125-400-R005	1.25	4.0	0.05		●	●					
	KSIG12% 125-400-R010	1.25	4.0	0.1		●	●					
	KSIG12% 150-500-R005	1.5	5.0	0.05		●	●					
	KSIG12% 150-500-R010	1.5	5.0	0.1		●	●					
	KSIG12% 150-500-R020	1.5	5.0	0.2		●	●					
	KSIG12% 200-600-R005	2.0	6.0	0.05		●	●					
	KSIG12% 200-600-R010	2.0	6.0	0.1		●	●					
	KSIG12% 200-600-R020	2.0	6.0	0.2		●	●					
	KSIG12% 250-700-R005	2.5	7.0	0.05		●	●					
	KSIG12% 250-700-R010	2.5	7.0	0.1		●	●					
	KSIG12% 250-700-R020	2.5	7.0	0.2		●	●					

## 12 Series-Circular Grooving Tools

Insert Blank 	Application Examples 	<p>◆ Recommended</p> <p>◊ Suitable</p> <p>◇ Applicable</p>	P	Soft Steel	◆	◇	◇		◆	◆		
				Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆		
			M	Austenitic	◆	◆	◆	◆	◆			
				Martensitic	◇	◆	◆	◆	◆			
			K	Grey Cast Iron			◇					
				Ductile Cast Iron			◇					
			N	Nonferrous							◆	◆
			S	Heat Resisting Alloy		◆	◆	◆	◆			
				Titanium Alloy		◆	◆	◆	◆			
			H	Hardened Materials			◆					

Shape Right Handed Tool	Type	Size			Carbide with PVD Coating							Carbide
		W	L	R	KPM30N	KKM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KSIR12% 070-160-R035	0.7	1.6	0.35		●	●					
	KSIR12% 100-200-R050	1	2.0	0.5		●	●					
	KSIR12% 150-300-R075	1.5	3.0	0.75		●	●					
	KSIR12% 200-300-R100	2	3.0	1		●	●					
	KSIR12% 250-400-R125	2.5	4.0	1.25		●	●					

Grades: ◆ Recommended ◊ Suitable ◇ Applicable

● Standard Stock

## 12 Series - Parting Tools

Shape Right Handed Tool	Type	Size				Carbide with PVD Coating							Carbide
		W	DMax	R	D	KPM30N	KXM15S	KHST0M	KMS20	KMST5C	KCP10P	KCN10D	KCN10
		<p> <span>◆</span> Recommended  <span>◇</span> Suitable  <span>◇</span> Applicable                 </p>											
	KSIC12% 050-16DR-S	0.5	5	0.05	16°		●	●					
	KSIC12% 070-16DR-S	0.7	8	0.05	16°		●	●					
	KSIC12% 100-16DR-S	1	12	0.05	16°		●	●					
	KSIC12% 125-16DR-S	1.25	12	0.05	16°		●	●					
	KSIC12% 150-16DR-S	1.5	12	0.05	16°		●	●					
	KSIC12% 200-16DR-S	2	12	0.05	16°		●	●					
	KSIC12% 050-20DR-S	0.5	5	0.05	20°		●	●					
	KSIC12% 070-20DR-S	0.7	8	0.05	20°		●	●					
	KSIC12% 100-20DR-S	1	12	0.05	20°		●	●					
	KSIC12% 125-20DR-S	1.25	12	0.05	20°		●	●					
	KSIC12% 150-20DR-S	1.5	12	0.05	20°		●	●					
	KSIC12% 200-20DR-S	2	12	0.05	20°		●	●					
	KSIC12% 050-S	0.5	5	0.05	0°		●	●					
	KSIC12% 070-S	0.7	8	0.05	0°		●	●					
	KSIC12% 100-S	1	12	0.05	0°		●	●					
	KSIC12% 125-S	1.25	12	0.05	0°		●	●					
	KSIC12% 150-S	1.5	12	0.05	0°		●	●					
	KSIC12% 200-S	2	12	0.05	0°		●	●					

## 12 Series - Back turning Tools

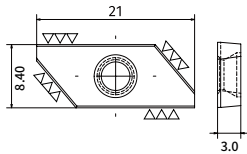
Shape Right Handed Tool	Type	Size				Carbide with PVD Coating							Carbide
		W	L	R	W1	KPM30N	KXM15S	KHST0M	KMS20	KMST5C	KCP10P	KCN10D	KCN10
		<p> <span>◆</span> Recommended  <span>◇</span> Suitable  <span>◇</span> Applicable                 </p>											
	KSIB12% 025-280-R005	0.25	2.8	<0.05	1.5		●	●					
	KSIB12% 030-460-R005	0.3	4.6	<0.05	2.8		●	●					
	KSIB12% 030-460-R015	0.3	4.6	<0.15	2.8		●	●					

Grades: ◆ Recommended ◇ Suitable ◇ Applicable

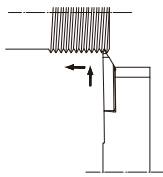
● Standard Stock

# 12 Series - Threading Tools

Insert Blank



Application Examples



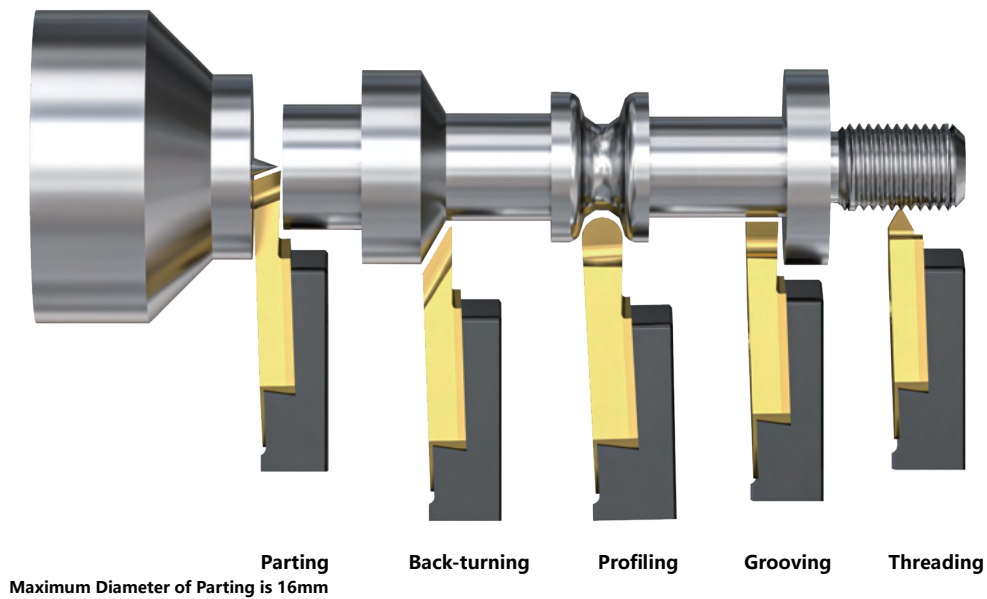
- ◆ Recommended
- ◊ Suitable
- ◇ Applicable

P	Soft Steel	◆	◇	◆		◆	◆						
	Carbon Steel/ Alloy Steel	◆	◇	◆		◆	◆						
M	Austenitic	◆	◆	◆	◆	◆	◆						
	Martensitic	◇	◆	◆	◆	◆	◆						
K	Grey Cast Iron					◇							
	Ductile Cast Iron					◇							
N	Nonferrous											◆	◆
S	Heat Resisting Alloy						◆	◆	◆	◆			
	Titanium Alloy						◆	◆	◆	◆			
H	Hardened Materials							◆					

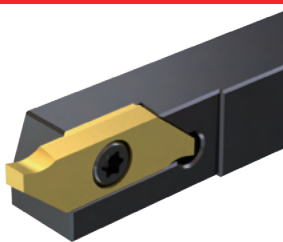
Shape Right Handed Tool	Type	Size						Carbide with PVD Coating						Carbide		
		F	A	R	Pitch (mm)	Teeth /inch	KPM30N	KXM15S	KH10M	KMS20	KM15C	KCP10P	KCN10D	KCN10		
	A Type	KSIT12% 040-A-60-005	0.4	60°	0.05	0.2~0.75	127-34		●	●						
		KSIT12% 040-A-60-010	0.4	60°	0.1	0.2~0.75	127-34		●	●						
		KSIT12% 040-A-60-020	0.4	60°	0.2	0.2~0.75	127-34		●	●						
		KSIT12% 080-A-60-005	0.8	60°	0.05	0.4~1.25	63-21		●	●						
		KSIT12% 080-A-60-010	0.8	60°	0.1	0.4~1.25	63-21		●	●						
		KSIT12% 080-A-60-020	0.8	60°	0.2	0.4~1.25	63-21		●	●						
		KSIT12% 080-A-55-005	0.8	55°	0.05		40-16		●	●						
		KSIT12% 080-A-55-010	0.8	55°	0.1		24-20		●	●						
	B Type	KSIT12% 040-B-60-005	0.4	60°	0.05	0.2~0.75	127-34		●	●						
		KSIT12% 040-B-60-010	0.4	60°	0.1	0.2~0.75	127-34		●	●						
		KSIT12% 040-B-60-020	0.4	60°	0.2	0.2~0.75	127-34		●	●						
		KSIT12% 080-B-60-005	0.8	60°	0.05	0.4~1.25	63-21		●	●						
		KSIT12% 080-B-60-010	0.8	60°	0.1	0.4~1.25	63-21		●	●						
		KSIT12% 080-B-60-020	0.8	60°	0.2	0.4~1.25	63-21		●	●						
		KSIT12% 080-B-55-005	0.8	55°	0.05		40-16		●	●						
		KSIT12% 080-B-55-010	0.8	55°	0.1		24-20		●	●						
	N Type	KSIT12% 150-N-60-010	1.5	60°	0.1	1.0~1.5	25-17		●	●						
		KSIT12% 150-N-60-020	1.5	60°	0.2	1.0~1.5	25-17		●	●						
		KSIT12% 150-N-55-010	1.5	55°	0.1		24-10		●	●						
		KSIT12% 150-N-55-020	1.5	55°	0.2		16-9		●	●						

Grades: ◆ Recommended ◊ Suitable ◇ Applicable ● Standard Stock

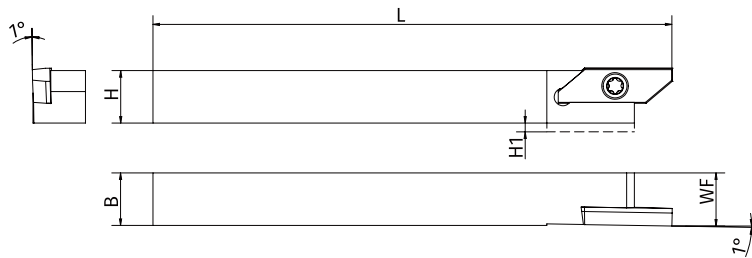
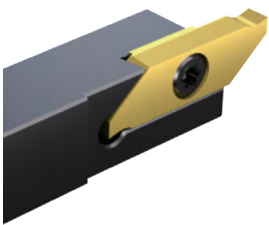
## Application Examples of 16 Series



## Tool Holders of 16 Series



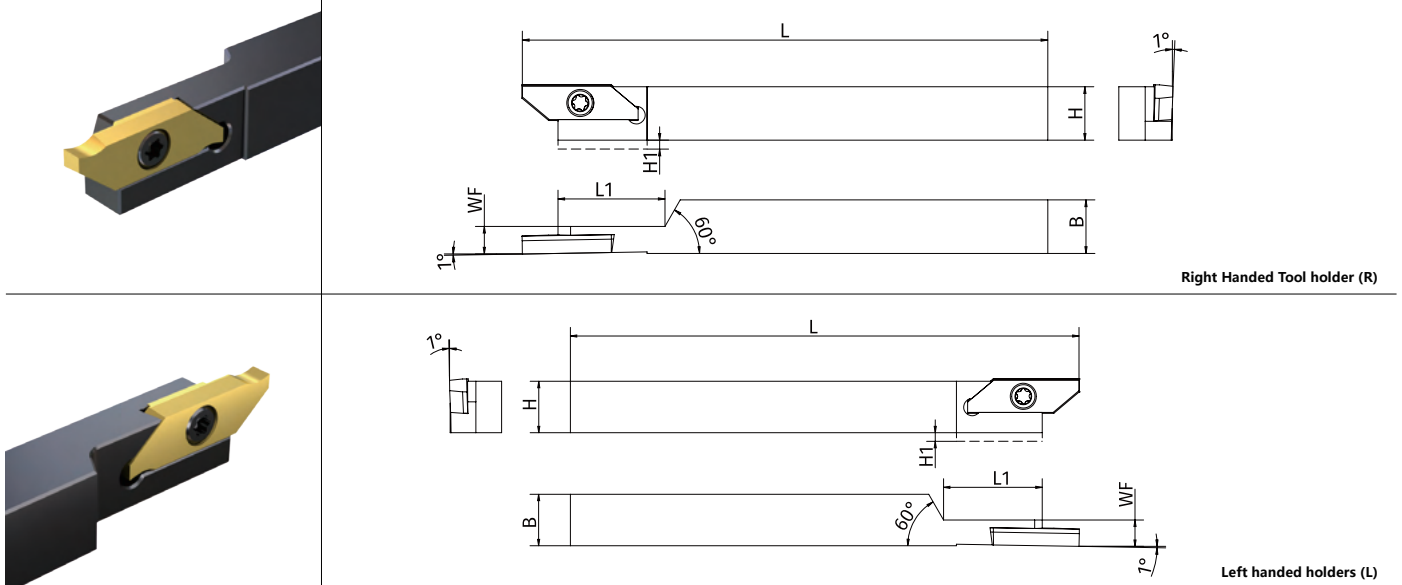
Right Handed Tool holder (R)



Left handed holders (L)

Type	Size(mm)					Accessories		Corresponding Insert
	H	H1	B	WF	L	Screw	Wrenth	
KSI16% -1010-J	10	2	10	10	110	KS-4508-T	KW-T15	KSI□16% □□□
KSI16% -1212-J	12	0	12	12	110	KS-4508-T	KW-T15	KSI□16% □□□
KSI16% -1616-J	16	0	16	16	110	KS-4508-T	KW-T15	KSI□16% □□□
KSI16% -2020-J	20	0	20	20	110	KS-4508-T	KW-T15	KSI□16% □□□

## Halved Holders



Type	Size(mm)						Accessories		Corresponding Insert
	H	H1	B	WF	L	L1	Screw	Wrench	
KSI16% -1010-J-S	10	2	10	7.2	110	22	KS-4508-T	KW-T15	KSI□16% □□□
KSI16% -1212-J-S	12	0	12	7.2	110	26	KS-4508-T	KW-T15	KSI□16% □□□

## 16 Series - Circular Grooving Tools

Shape Right Handed Tool	Type	Size			Carbide with PVD Coating						Carbide	
		W	L	R	KPM30N	KKM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KSIR16% 200-300-R100	2.0	3.0	1		●	●					
	KSIR16% 250-300-R125	2.5	3.0	1.25		●	●					
	KSIR16% 300-400-R150	3.0	4.0	1.5		●	●					

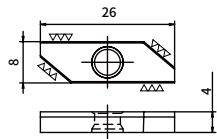
Insert Blank	Application Examples	Recommended Suitable Applicable	P	Soft Steel		◆	◇	◆	◆	◆	◆	◆	◆	◆	◆
			M	Carbon Steel/ Alloy Steel		◆	◇	◆	◆	◆	◆	◆	◆	◆	◆
		Recommended Suitable Applicable	M	Austenitic		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
			K	Martensitic		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
		Recommended Suitable Applicable	N	Grey Cast Iron				◇							
			S	Ductile Cast Iron				◇							
		Recommended Suitable Applicable	H	Nonferrous								◆	◆		
			S	Heat Resisting Alloy				◆	◆	◆	◆	◆	◆	◆	◆
		Recommended Suitable Applicable	H	Titanium Alloy				◆	◆	◆	◆	◆	◆	◆	◆
			H	Hardened Materials				◆							

Grades: ◆ Recommended ◆ Suitable ◇ Applicable ● Standard Stock

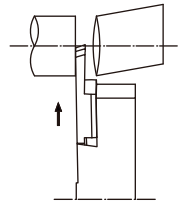


# 16 Series - Parting Tools

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Application Examples



- ◆ Recommended
- ◇ Suitable
- ◇ Applicable

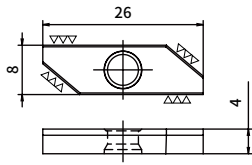
P	Soft Steel	◆	◇	◇		◆	◆						
	Carbon Steel/ Alloy Steel	◆	◇	◇		◆	◆						
M	Austenitic	◆	◆	◆		◆	◆						
	Martensitic	◇	◆	◆		◆	◆						
K	Grey Cast Iron			◇									
	Ductile Cast Iron			◇									
N	Nonferrous										◆	◆	
S	Heat Resisting Alloy					◆	◆	◆	◆				
	Titanium Alloy					◆	◆	◆	◆				
H	Hardened Materials						◆						

Shape Right Handed Tool	Type	Size				Carbide with PVD Coating							Carbide	
		W	DMax	R	D	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10	
		KSIC16%L 150-16DR-S	1.5	16	0.05	16°		●	●					
	KSIC16%L 200-16DR-S	2.0	16	0.05	16°		●	●						
		KSIC16%L 150-20DR-S	1.5	16	0.05	20°		●	●					
	KSIC16%L 200-20DR-S	2.0	16	0.05	20°		●	●						
		KSIC16%L 070-S	0.7	8	0.05	0°		●	●					
	KSIC16%L 100-S	1	12	0.05	0°		●	●						
	KSIC16%L 125-S	1.25	12	0.05	0°		●	●						
	KSIC16%L 150-S	1.5	16	0.05	0°		●	●						
	KSIC16%L 175-S	1.75	16	0.05	0°		●	●						
	KSIC16%L 200-S	2	16	0.05	0°		●	●						
	KSIC16%L 200-P	2	16	0.08	0°		●	●						
	KSIC16%L 300-S	3	16	0.05	0°		●	●						
	KSIC16%L 300-P	3	16	0.08	0°		●	●						

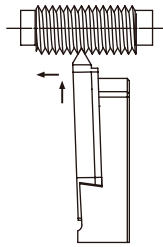
Grades: ◆ Recommended ◇ Suitable ◇ Applicable ● Standard Stock

# 16 Series - Threading Tools

Insert Blank



Application Examples



- ◆ Recommended
- ◊ Suitable
- ◇ Applicable

P	Soft Steel	◆	◇	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Carbon Steel/ Alloy Steel	◆	◇	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
M	Austenitic	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Martensitic	◇	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
K	Grey Cast Iron				◇									
	Ductile Cast Iron				◇									
N	Nonferrous												◆	◆
S	Heat Resisting Alloy						◆	◆	◆	◆				
	Titanium Alloy						◆	◆	◆	◆				
H	Hardened Materials						◆							

Shape Right Handed Tool	Type	Size						Carbide with PVD Coating						Carbide	
		F	A	R	Pitch (mm)	Teeth /inch	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10	
A型	KSIT16% 040-A-60-005	0.4	60°	0.05	0.2-0.75	127-34		●	●						
	KSIT16% 040-A-60-010	0.4	60°	0.1	0.2-0.75	127-34		●	●						
	KSIT16% 040-A-60-020	0.4	60°	0.2	0.2-0.75	127-34		●	●						
	KSIT16% 080-A-60-005	0.8	60°	0.05	0.4-1.25	63-21		●	●						
	KSIT16% 080-A-60-010	0.8	60°	0.1	0.4-1.25	63-21		●	●						
	KSIT16% 080-A-60-020	0.8	60°	0.2	0.4-1.25	63-21		●	●						
	KSIT16% 080-A-55-005	0.8	55°	0.05		40-16		●	●						
	KSIT16% 080-A-55-010	0.8	55°	0.1		24-20		●	●						
B型	KSIT16% 040-B-60-005	0.4	60°	0.05	0.2-0.75	127-34		●	●						
	KSIT16% 040-B-60-010	0.4	60°	0.1	0.2-0.75	127-34		●	●						
	KSIT16% 040-B-60-020	0.4	60°	0.2	0.2-0.75	127-34		●	●						
	KSIT16% 080-B-60-005	0.8	60°	0.05	0.4-1.25	63-21		●	●						
	KSIT16% 080-B-60-010	0.8	60°	0.1	0.4-1.25	63-21		●	●						
	KSIT16% 080-B-60-020	0.8	60°	0.2	0.4-1.25	63-21		●	●						
	KSIT16% 080-B-55-005	0.8	55°	0.05		40-16		●	●						
	KSIT16% 080-B-55-010	0.8	55°	0.1		24-20		●	●						
N型	KSIT16% 175-N-60-010	1.75	60°	0.1	0.8-3.5	31-7		●	●						
	KSIT16% 175-N-60-015	1.75	60°	0.15	1.0-1.25	25-7		●	●						
	KSIT16% 175-N-60-020	1.75	60°	0.2	1.5-3.5	16-7		●	●						
	KSIT16% 175-N-60-025	1.75	60°	0.25	1.75-3.5	14-7		●	●						
	KSIT16% 175-N-55-010	1.75	55°	0.1		48-8		●	●						
	KSIT16% 175-N-55-022	1.75	55°	0.22		14-8		●	●						

Grades: ◆ Recommended ◊ Suitable ◇ Applicable ● Standard Stock

# Recommend Parameters For Machining-KSI12/16

Back-turning Tools		
Edge Width	Radial Feed f(mm/rev)	Parameters for Cross Feed
1.0-1.5	0.01-0.05	AP: $W^{*0.2}$ f: 0.02-0.05
1.75-2.5	0.02-0.08	AP: $W^{*0.2}$ f: 0.02-0.1
3	0.02-0.1	AP: $W^{*0.2}$ f: 0.02-0.15

Grooving Tools	
Edge Width	Feeding Speed f(mm/rev)
0.7-1.25	0.01-0.05
1.5-3.0	0.02-0.1

Circular Grooving Tools	
Edge Width	Feeding Speed f(mm/rev)
2.0-3.0	0.02-0.1

Parting Tools	
Edge Width	Feeding Speed f(mm/rev)
0.5-1.0	0.008-0.04
1.25-1.5	0.015-0.06

Back-turning Tools	
Cutting Depth $A_p$ (mm)	Feeding Speed f(mm/rev)
0.05-6.0	0.02-0.08

Threading Tools	
Type	Cutting Depth $A_p$ (mm)
A Type	0.02-0.05
B Type	0.02-0.05
N Type	0.03-0.08

## Comparison Table of Geometry

KOYINCUT	KYOCERA	NTK	TUNGALOY	MITSUBISHI	SUMITOMO	TAEGUTEC	SANDVIK	KENNAMETAL	ISCAR	SECO	WALTER	AHNO
SF	GQ/GK	AM3	JS	SMG	LU/SU	-	PM	FP	14/WF	FFI	PF	PM1/ASF/PMS
PF	GF/SK/SKS/PF	YL	PS	SMG	SI/SU	SA	UF	LF/K	SM/PF	FFI/MF2	FN2	PMT1/PMC/PS
CF	CK	CL	AL	AZ	-	-	-	HP	AS	AL	MN2	AEC
MF	CF	AMX	01	FV	FC	-	-	-	-	-	FM4	AQ
AF	MU/MQ/HQ	UL	TSF	SH	SU	SU	XF/MF	CT	NF	MF2	MP3	NMT
RF	-	-	-	-	-	-	-	-	-	-	-	-

## Comparison Table of Insert Grade

Grades	KOYINCUT	KYOCERA	NTK	TUNGALOY	MITSUBISHI	SUMITOMO	TAEGUTEC	SANDVIK	KENNAMETAL	ISCAR	SECO	WALTER	WIDIA	AHNO	UTILIS	BIMU
<b>P</b>	KHS10M	PR930	VW1	AH120	VP10RT	AC1030U	TT9030	1525	KCP05	IC807	CP200	WPP10G	WP15CT	AM5015	UHM10 MZ	QM2
		PR1225	QM3	AH725	VP10MT	AC6030M	TT8020	4035	KCP10B	IC8150	CP250	WPP20S	WP25CT	AP5210	UHM20 HPX	
	KCP10P	PR1535		SH725	MS6015	AC8015P			4315	KCP10	IC8250	CP500	WPP30G	WP35CT	AL10	UHM20 TX+
		PR1705		SH730	VP15TF	AC8020P			4325	KCP25B	IC8350	CP600	WPP30S	WS10PT	AL20	UHM20 MZ
		PR1725		GH330	VP20RT	AC8025P			4335	KCP25	IC830		WEP10C	WM35CT		UHM30 TX+
KPM30N			GH730		AC8035P			5015	KCP30						UHM30 MZ	
<b>M</b>	KHS10M	PR930	ST4	AH120	VP10RT	AC1030U	TT9030	1115	KCM15B	IC807	TS2000	WMP20S	WM15CT	AM15C	UHM10 HX	QM3
		PR1225	DT4	AH725	VP10MF	AC6020M	TT8010	1125	KCM15	IC6015	TS2500	WSM01	WM25CT	AM5015	UHM10 TX+	
	KMS20	PR1535	TM4	SH725	MS9025	AC6030M	TT8020		2015	KCM25B	IC6025	CP200	WSM10S	WM35CT	AM5020	UHM20 HPX
		PR1725	ZM3	SH730	VP15TF	AC6040M			2025	KCM25	IC830	CP600	WSM20S	WS10PT	AM5025	UHM20 TX+
	KXM15S		DM4		VP20MF	AC610M			2220	KCM35		890	WSM30S	WM25PT	AL10	UHM30 HX
					VP20RT	AC630M			3210						AL20	UHM30 TX+
KMS15C				MP7035				3225							UHM30 MZ	
															UHM30 SX	
<b>S</b>	KHS10M	PR005S	DT4	AH725	MP9005	AC5005S	TT8020	1105	K313	IC804	TH1000	WSM01	WU10HT	AM5015	UHM10 TX+	QM3
		PR015S	DM4	SH730	MP9015	AC5015S			1115	K68	IC806	TS2000	WSM20S	WS10PT	AM5025	UHM20 TX+
	KMS20	PR1535		GH110	MP9025	AC5025S			1125	KCU10	IC830	TS2050	WSM30S	WS25PT	AM5110	UHM30 HX
					VP05RT					H13A	KC5010	TS2500	WS10	WM15CT	AM5120+	UHM30 TX+
	KXM15S				VP10RT					S05F	KC5025	CP200		WM25CT	AP5210	
				VP20RT							HX		WM35CT			
KMS15C											883					
<b>N</b>	KCN10	GW05	KM1	GH110	HTI10	H1	K10	H10	KC5410	IC520	KX	WNN10	HCK10	AK10	UHM10	K20
		KCN10D		KS05F					H13A	K313	IC20		WN10	HWK10	AK20	UHM20
													HWK15			

Blank lined area for writing, consisting of 15 horizontal yellow bars.

Blank lined area for writing, consisting of 15 horizontal yellow bars.

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