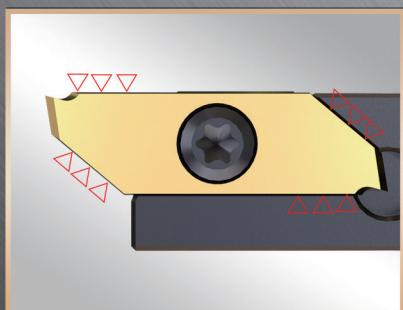


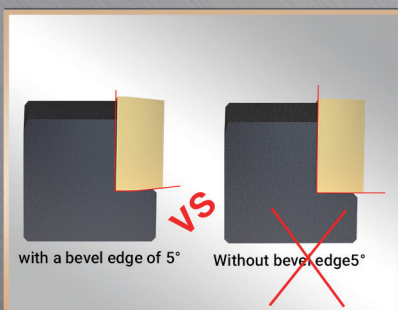


Small parts
KS112 Tools for

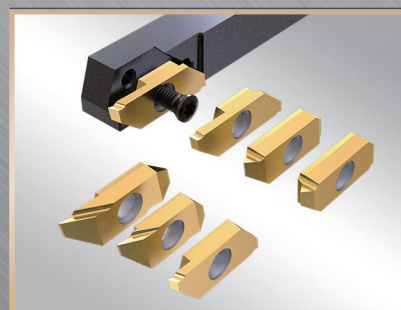
KS112/16 Series



Precision Full Lapped



Stable clamping with 5°



One holder for all inserts

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
KSI	12	R	12	12	—	J	—	S

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

KSI: KSI Series	G: Grooving tools						
	GT: Back-turning tools						
	R: Circular Grooving Tools	12: 12 Type	R: right handed	070: 0.7	300: 3.0	R005: R0.05	
	B: Back-turning tools	16: 16 Type	L: left handed	100: 1.0	400: 4.0	R010: R0.1	
Series	Insert Type	Insert size	Insert Direction	Tip width	Cutting Depth	Nose Radius	
KSI	GT	12	R	125	300	R005	

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	16: 16 Type	L: left handed	125: 1.25			P: R0.08
Series	Insert Type	insert size	Insert Direction	Tip width	—	Nose Radius	
KSI	C	12	R	125	—	S	

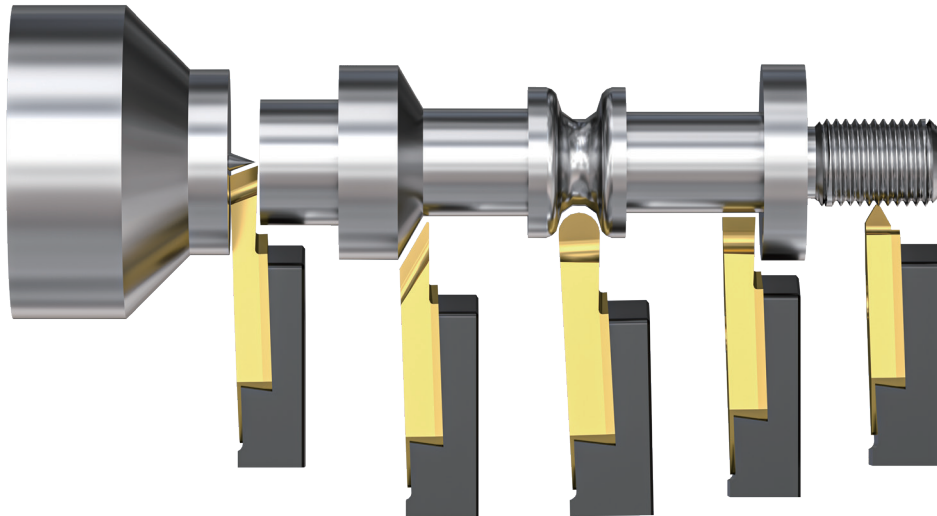
Symbols of KSI Parting Tools With lead Angle

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	
KSI	C	12	R	125	16D	R	S	

Symbols of KSI Threading Tools

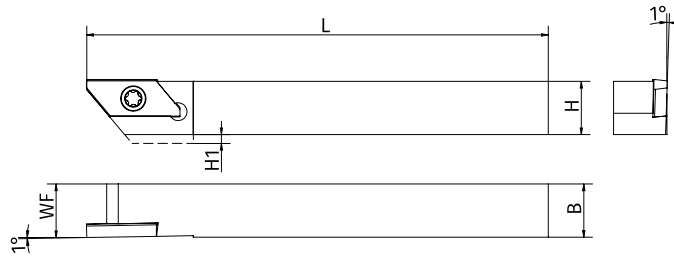
KSI: KSI Series	T: Threading	12: 12 Type	R: right handed	040: 0.4	A: left			005: R0.05
		16: 16 Type	L: left handed	080: 0.8	B: right	55: 55°	010: R0.1	
				165: 1.65	N: central	60: 60°	015: R0.15	
							020: R0.2	
Series	Insert Type	Insert size	Insert Direction	Tip width	Blade shape	Thread Angle	Nose Radius	
KSI	T	12	R	040	A	60	010	

Application Examples of 12 Series

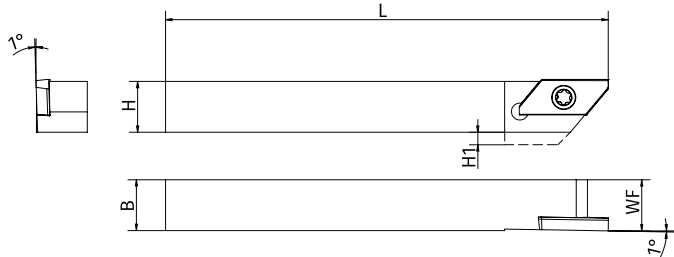
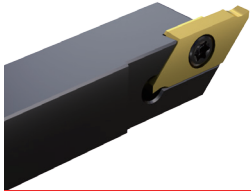


Parting **Back-turning** **Profiling** **Grooving** **Threading**
 Maximum Diameter of parting is 12MM

Tool holders of 12 Series



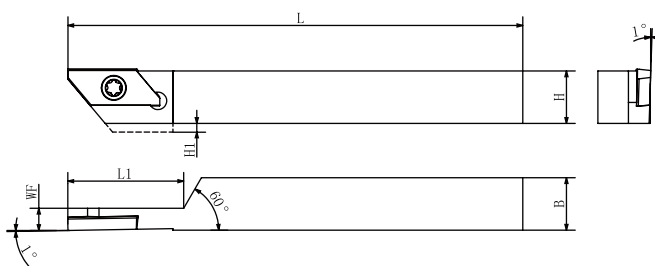
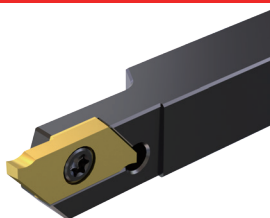
Right Handed Tool holder (R)



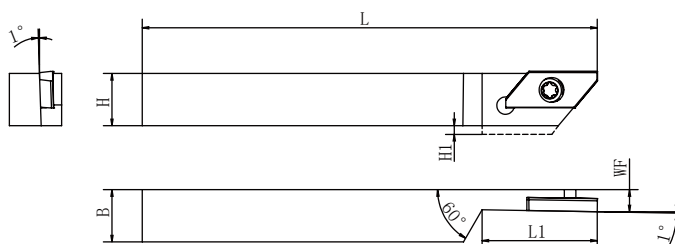
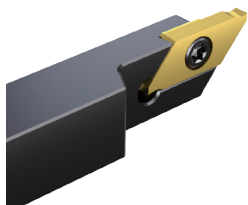
left handed holders (L)

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)

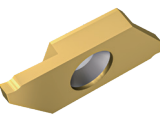


left handed holders (L)

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

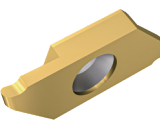
12 Series-grooving

Workblank	Application Examples	 Recommended  Suitable  Applicable	P	Soft steel	◆	◇	◇		◆	◆			
				Carbide	◆	◇	◇		◆	◆			
			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			PVD Coated Cemented Carbide							Cemented carbide
		W	L	R	KPM30N	KXM15S	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

Workblank	Application Examples	 Recommended  Suitable  Applicable	P	Soft steel	◆	◇	◇		◆	◆			
				Carbide	◆	◇	◇		◆	◆			
			M	Austenitic	◆	◆	◆	◆	◆				
				Martensitic	◇	◆	◆	◆	◆				
			K	Grey Cast Iron			◇						
				Ductile Cast Iron			◇						
			N	Nonferrous							◆	◆	
			S	Heat Resisting Alloy		◆	◆	◆	◆				
				Titanium Alloy		◆	◆	◆	◆				
			H	Hardened Materials			◆						

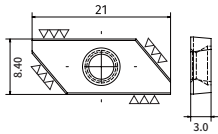
Shape Right Handed Tool	Type	Size			PVD Coated Cemented Carbide							Cemented carbide
		W	L	R	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	KSIR12% 070-160-R035	0.7	1.6	0.35		●	●					
	KSIR12% 100-200-R050	1	2.0	0.5		●	●					
	KSIR12% 150-300-R075	1.5	3.0	0.75		●	●					
	KSIR12% 200-300-R100	2	3.0	1		●	●					
	KSIR12% 250-400-R125	2.5	4.0	1.25		●	●					

Grades: ◆ Recommended ◇ Suitable ◇ Applicable

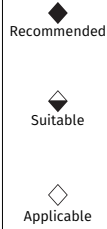
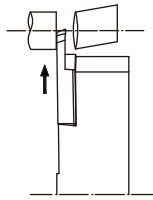
● Standard Stock

12 Series-grooving

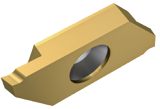
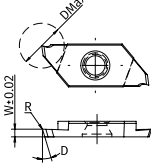
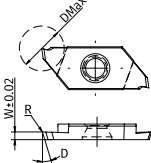
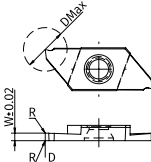
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Application Examples

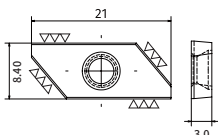


P	Soft steel	◆	◇	◇		◆	◆		
	Carbide	◆	◇	◇		◆	◆		
M	Austenitic	◆	◆	◆	◆	◆			
	Martensitic	◇	◆	◆	◆	◆			
K	Grey Cast Iron			◇					
	Ductile Cast Iron			◇					
N	Nonferrous							◆	◆
S	Heat Resisting Alloy		◆	◆	◆	◆			
	Titanium Alloy		◆	◆	◆	◆			
H	Hardened Materials			◆					

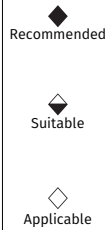
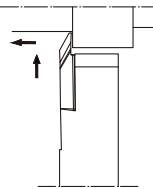
Shape Right Handed Tool	Type	Size				PVD Coated Cemented Carbide							Cemented carbide
		W	DMax	R	D	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	 KSIC12% 050-16DR-S	0.5	5	0.05	16°		●	●					
	KSIC12% 070-16DR-S	0.7	8	0.05	16°		●	●					
	KSIC12% 100-16DR-S	1	12	0.05	16°		●	●					
	KSIC12% 125-16DR-S	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

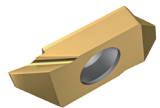
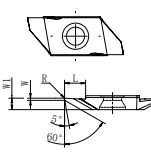
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Application Examples



P	Soft steel	◆	◇	◊		◆	◆		
	Carbide	◆	◇	◊		◊	◆		
M	Austenitic	◆	◆	◆	◆	◆			
	Martensitic	◇	◆	◆	◆	◆			
K	Grey Cast Iron			◇					
	Ductile Cast Iron			◇					
N	Nonferrous							◆	◆
S	Heat Resisting Alloy		◆	◊	◆	◆			
	Titanium Alloy		◆	◊	◆	◆			
H	Hardened Materials			◊					

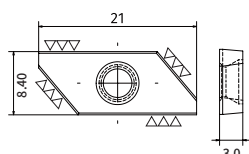
Shape Right Handed Tool	Type	Size				PVD Coated Cemented Carbide							Cemented carbide
		W	L	R	W1	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10
	 KSIB12% 025-280-R005	0.25	2.8	<0.05	1.5		●	●					
	KSIB12% 030-460-R005	0.3	4.6	<0.05	2.8		●	●					
	KSIB12% 030-460-R015	0.3	4.6	<0.15	2.8		●	●					

Grades: ◆ Recommended ◇ Suitable ◇ Applicable

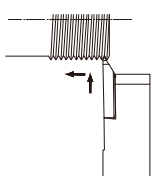
● Standard Stock

12 Series-grooving

Workblank



Application Examples

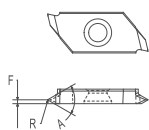
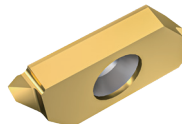
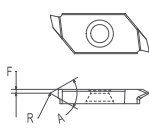
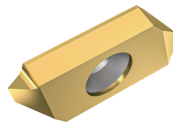
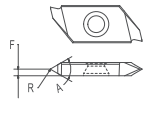


◆ Recommended

◇ Suitable

◇ Applicable

P	Soft steel	◆	◇	◇		◆	◆		
	Carbide	◆	◇	◇		◆	◆		
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					PVD Coated Cemented Carbide							Cemented carbide
			F	A	R	Pitch (mm)	Teeth per inch	KPM30N	KXM15S	KHS10M	KMS20	KMS15C	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