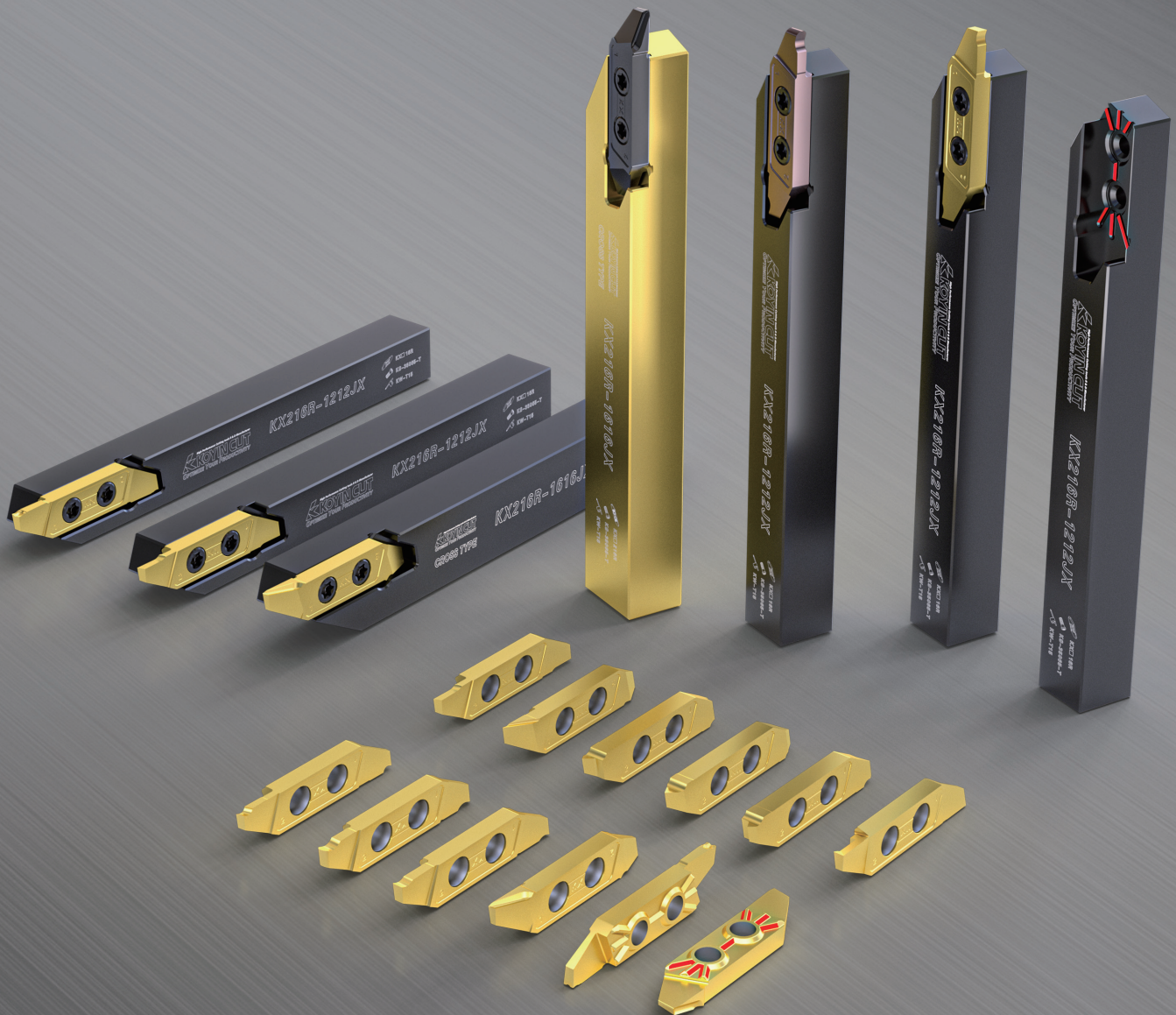


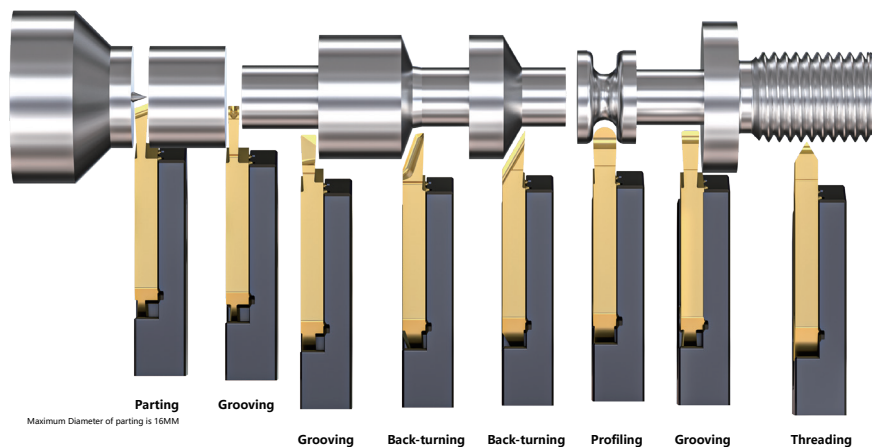
KX216

KX216 CNC PRECISION AUTOMATIC LATHE SPECIAL SMALL PARTS CUTTING TOOL SERIES



- Capable of cutting both 12 and 16 series
- There are various types of cutting tools, including cutting, grooving, post scanning, and thread processing
- Rich material selection can handle various processed materials (stainless steel, alloy, easy to turn iron, alloy steel, non-ferrous gold)
- There are various specifications and sizes for the blade (12*12/16*16/20*20/25*25), as well as customized services

Processing Application

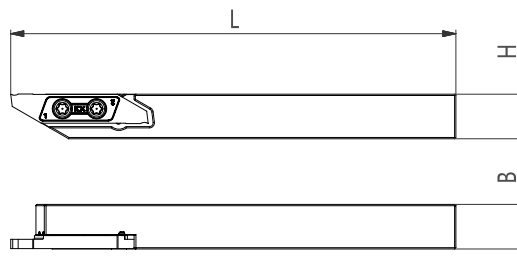
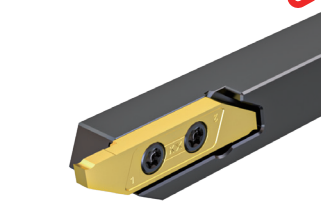


Symbols of KX216 tool Holders

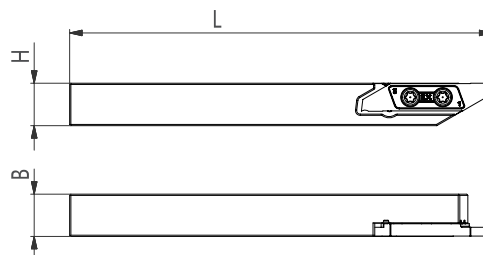
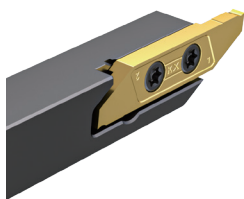
						M : 150
						JX : 120
						J : 110
						H : 100
KX216: KX216 Series	N/A: Standard holders S: halved holders	R: right handed L: left handed				
Series	Halved Holders	Holder Direction	—	Holder Height	Holder Width	Tool Length
KX216	S	R	—	12	12	JX

Regular Holders

New



Right Handed Tool holder (R)

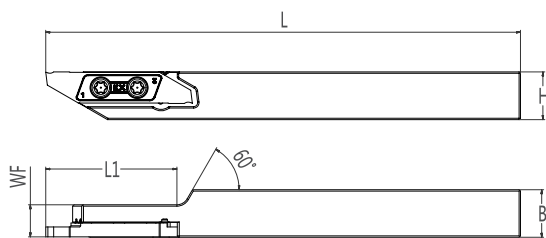


left handed holders (L)

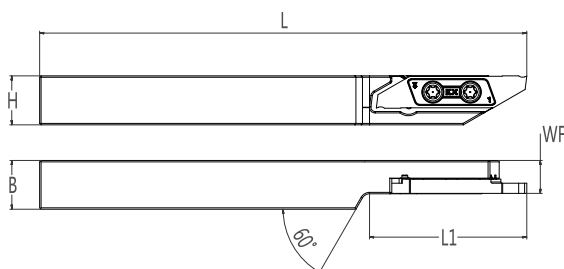
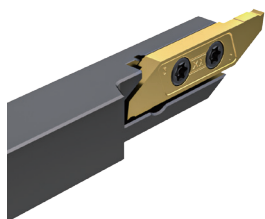
Type	Size(mm)			Accessories		Corresponding Insert
	H	B	L	Screw	Wrench	
KX216% -0808H	8	8	100	KS-3504-T	KW-T15	KX216□%□□□
KX216% -1010JX	10	10	120	KS-35065-T	KW-T15	KX216□%□□□
KX216% -1212JX	12	12	120	KS-35065-T	KW-T15	KX216□%□□□
KX216% -1616JX	16	16	120	KS-35065-T	KW-T15	KX216□%□□□
KX216% -2020JX	20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

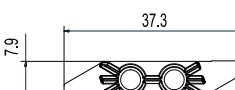
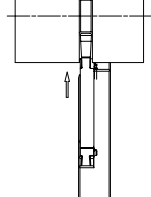
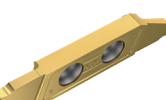
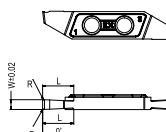
Type	Size(mm)					Accessories		Corresponding Insert
	H	B	WF	L1	L	Screw	Wrenth	
KX216S % -0808H	8	8	7.2	26	100	KS-3504-T	KW-T15	KX216 □ % □ □ □
KX216S % -1010JX	10	10	7.2	26	120	KS-3504-T	KW-T15	KX216 □ % □ □ □
KX216S % -1212JX	12	12	7.2	26	120	KS-3504-T	KW-T15	KX216 □ % □ □ □
KX216S % -1616JX	16	16	7.2	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
Series	halved holders	Insert Direction	Tip width	=	Nose Radius	=	Nose Radius		Geometry
KX216	G	R	125	=	400	=	005	=	BF

216G Grooving Tools



Workblank 	Application Examples 	 Recommended  Suitable  Applicable	P	Soft steel Carbide	  	 							
			M	Austenitic Martensitic	  	  							
Shape Right Handed Tool	Type	Size			PVD Coated Cemented Carbide							Cemented carbide	
		W	L	R	KPM30N	KXM15S	KHS10M	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		 							

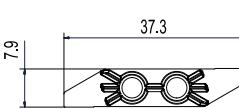
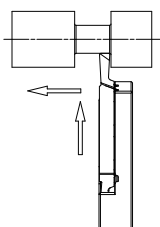
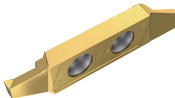
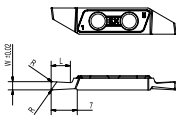
Grades: Recommended Suitable Applicable

- Standard Stock

**KX216 Tools Dedicated
for Precision Small Parts**

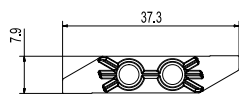
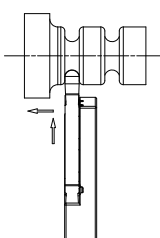
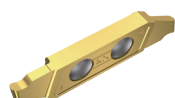
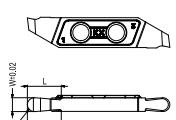
216GT Back-turning Tools

New

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
 	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

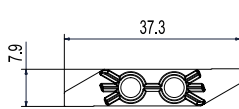
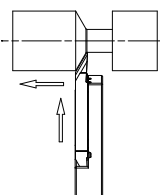
Workblank		Application Examples		 Recommended	 Suitable	 Applicable	P	Soft steel								
							Carbide									
							M	Austenitic								
							Martensitic									
							K	Grey Cast Iron								
							Ductile Cast Iron									
							N	Nonferrous								
							S	Heat Resisting Alloy								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

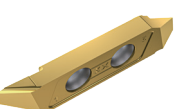
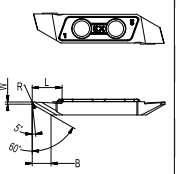
Grades: ◆ Recommended ◇ Suitable ◇ Applicable

● Standard Stock

216B Back-turning Tools

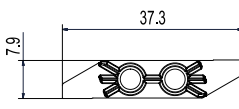
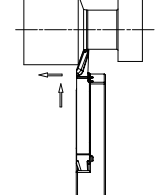
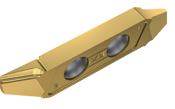
New

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	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

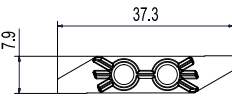
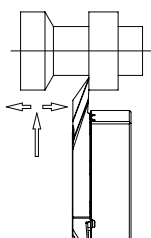
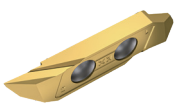
Workblank 	Application Examples 	 Recommended  Suitable  Applicable	P	Soft steel										
				Carbide										
			M	Austenitic										
				Martensitic										
			K	Grey Cast Iron										
				Ductile Cast Iron										
			N	Nonferrous										
S	Heat Resisting Alloy													
	Titanium Alloy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

Grades: ◆ Recommended ◆ Suitable ◇ Applicable

● Standard Stock

216BT Back-turning Tools

New

Workblank 	Application Examples 	Recommended Suitable Applicable	P	Soft steel	◆	◇	◆		◆	◆				
				Carbide	◆	◇	◆		◆	◆				
			M	Austenitic	◆	◆	◆	◆	◆	◆				
				Martensitic	◇	◆	◆	◆	◆	◆				
			K	Grey Cast Iron				◇						
				Ductile Cast Iron				◇						
			N	Nonferrous								◆	◆	
Shape Right Handed Tool 	Type	Size W L R B L1	PVD Coated Cemented Carbide											
			KPM30N	KXM15S	KHS10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10	cemented carbide			
			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: KX216 Series		C: Parting	R: right handed		050: 0.5		S: R0.03-R0.05
			L: left handed holders		125: 1.25		P: R0.08
KX216	Insert Type	Insert Direction			Tip width	—	Nose Radius
KX216	C	R			125	—	S

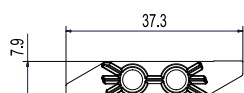
Symbols of KX216 Parting Tools With lead Angle

KX216: KX216 Series		C: Parting	R: right handed	050: 0.5	20D: 20°	R: right lead	N: without chipbreaking slot and nose radius
			L: left handed	125: 1.25	16D: 16°	L: left lead	S: R0.03-R0.05
					11D: 11°		P: R0.08
KX216	Insert Type	Insert Direction	Tip width	lead angle	lead direction	Nose Radius/other	
KX216	C	R	125	16D	R	S	

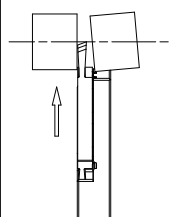
216C Parting Tools

New

Workblank



Application Examples

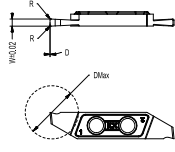
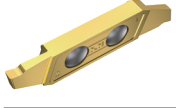
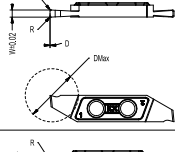
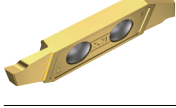
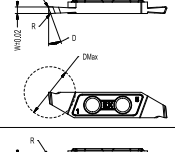
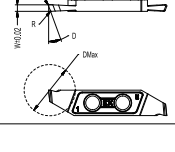
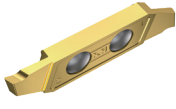
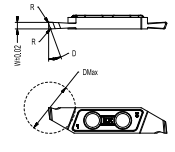
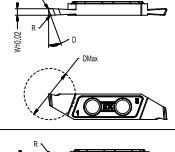
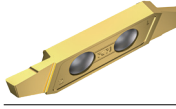
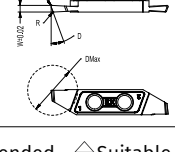


Recommended

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	DMax	R	D	KPM30N	KXM15S	KH10M	KMS20	KMS15C	KCP10P	KCN10D	KCN10	
flat 	 KX216C %L 050-S	0.5	5	0.03-0.05	0°		●	●						
	KX216C %L 070-S	0.7	8	0.03-0.05	0°		●	●						
	KX216C %L 100-S	1	12	0.03-0.05	0°		●	●						
	KX216C %L 125-S	1.25	12	0.03-0.05	0°		●	●						
	KX216C %L 150-S	1.5	16	0.03-0.05	0°		●	●						
	KX216C %L 200-S	2	16	0.03-0.05	0°		●	●						
flat strengthened edge 	 KX216C %L 100-P	1	12	0.08±0.01	0°		●	●						
	KX216C %L 150-P	1.5	16	0.08±0.01	0°		●	●						
	KX216C %L 200-P	2	16	0.08±0.01	0°		●	●						
	KX216C %L 200-180-P	2	18	0.08±0.01	0°									
with right lead angle 	 KX216C %L 100-11DR-S	1	12	0.03-0.05	11°		●	●						
	KX216C %L 125-11DR-S	1.25	12	0.03-0.05	11°		●	●						
	KX216C %L 150-11DR-S	1.5	16	0.03-0.05	11°		●	●						
with right lead angle strengthened edge 	 KX216C %L 100-11DR-P	1	12	0.08±0.01	11°		●	●						
	KX216C %L 125-11DR-P	1.25	12	0.08±0.01	11°		●	●						
	KX216C %L 150-11DR-P	1.5	16	0.08±0.01	11°		●	●						
with right lead angle 	 KX216C %L 050-16DR-S	0.5	5	0.03-0.05	16°		●	●						
	KX216C %L 070-16DR-S	0.7	8	0.03-0.05	16°		●	●						
	KX216C %L 100-16DR-S	1	12	0.03-0.05	16°		●	●						
	KX216C %L 125-16DR-S	1.25	12	0.03-0.05	16°		●	●						
	KX216C %L 150-16DR-S	1.5	16	0.03-0.05	16°		●	●						
	KX216C %L 200-16DR-S	2	16	0.03-0.05	16°		●	●						
with right lead angle strengthened edge 	 KX216C %L 100-16DR-P	1	12	0.08±0.01	16°		●	●						
	KX216C %L 150-16DR-P	1.5	16	0.08±0.01	16°		●	●						
	KX216C %L 200-16DR-P	2	16	0.08±0.01	16°		●	●						
with right lead angle without chipbreaking slot 	 KX216C %L 070-20DR-N	0.7	8	0	20°		●	●						
	KX216C %L 100-20DR-N	1	12	0	20°		●	●						
	KX216C %L 150-20DR-N	1.5	16	0	20°		●	●						

Grades: ◆ Recommended ◇ Suitable ◇ Applicable

● Standard Stock

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

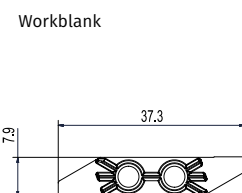
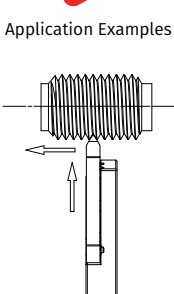
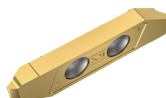
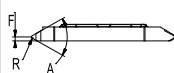
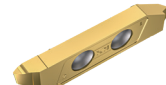
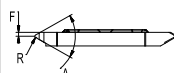
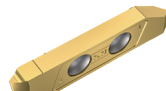
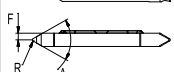
KX216 Tools Dedicated for Precision Small Parts

Symbols of KX216 Threading Tools

KX216: KX216 Series	T: Threading		040: 0.4		A: left				005: R0.05
		R: right handed	080: 0.8		B: right		55: 55°		010: R0.1
		L: left handed	165: 1.65		N: central		60: 60°		020: R0.2
Series	Insert Type	Insert Direction	Tip width	—	Blade shape	—	Thread Angle	—	Nose Radius
KX216	T	R	040	—	A	—	60	—	005

216T Threading Tools



Workblank 	Application Examples 	Recommended  Suitable  Applicable 	P	Soft 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						PVD Coated Cemented Carbide							Cemented carbide
		F	A	R	pitch (mm)	teeth per inch	KPM30N	KXM15S	KHST0M	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