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株洲欧科亿数控精密刀具股份有限公司

OKE Precision Cutting Tools Co., Ltd.

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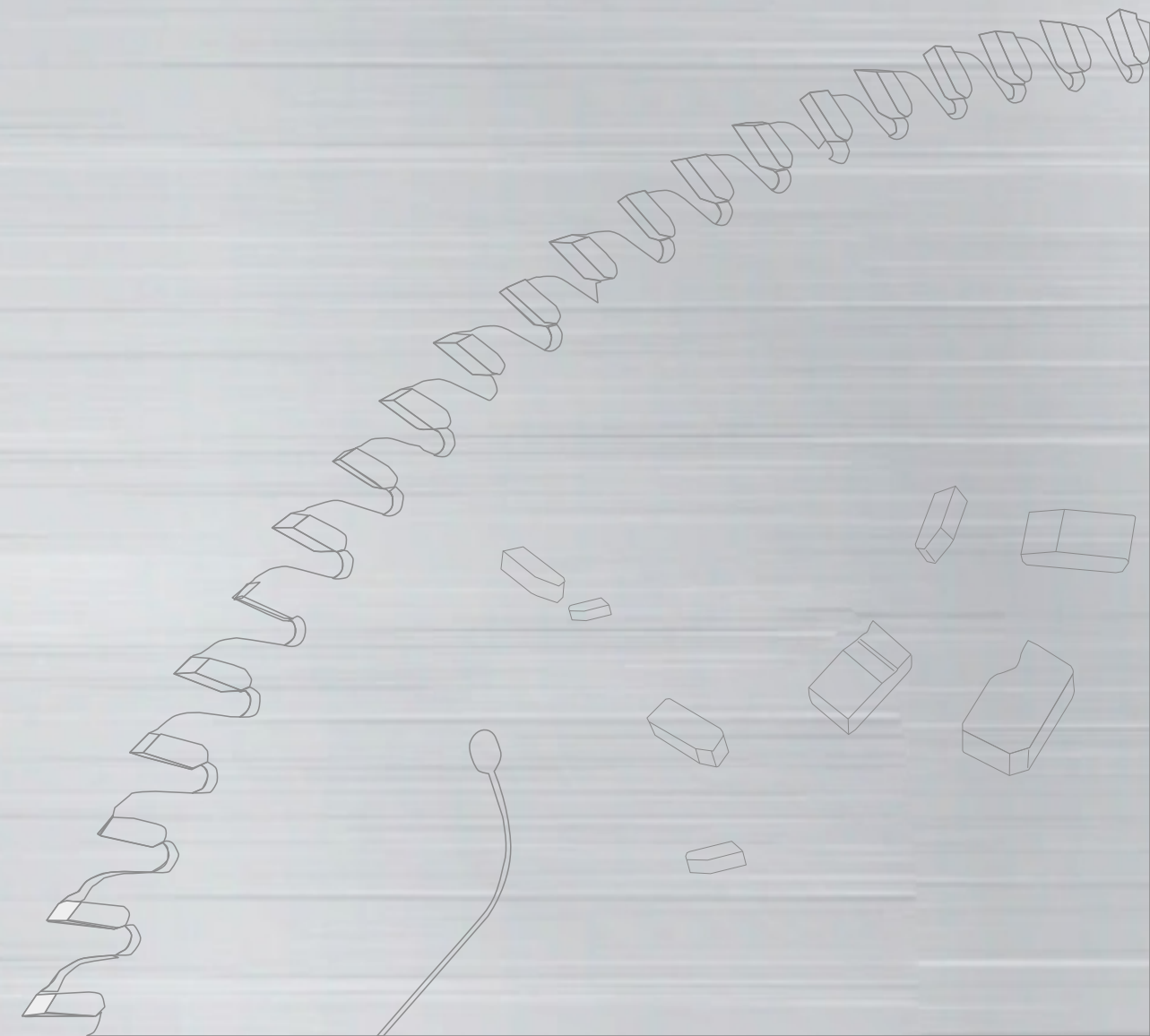
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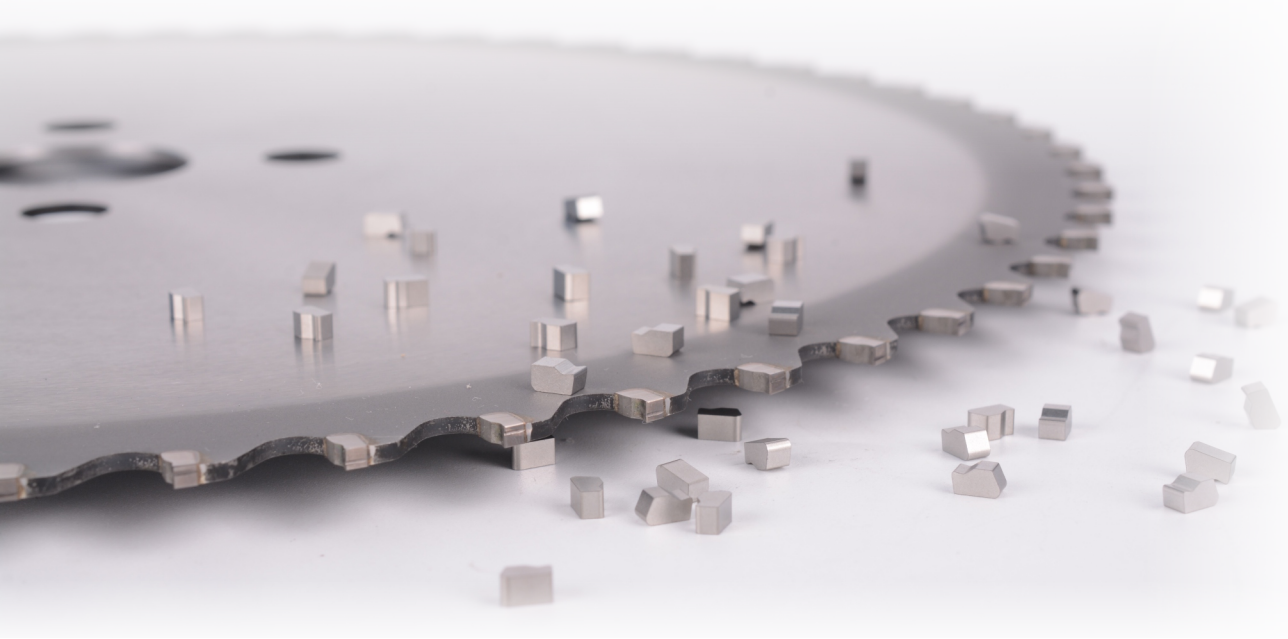
★金属陶瓷锯齿

制作冷锯加工钢件，切削轻快不粘屑，下料效率高，寿命超预期；
工件断口表面光洁度好，精度高，可以实现一次下料，省去断口精整。

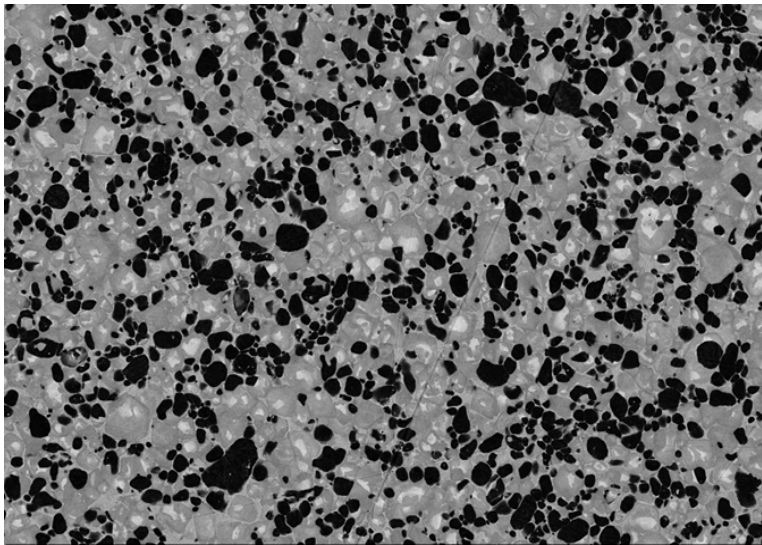
★Cermet Saw tips

Used for making cold saw, processing steel parts, cutting light non-stick chips, high cutting efficiency, life beyond expectations.

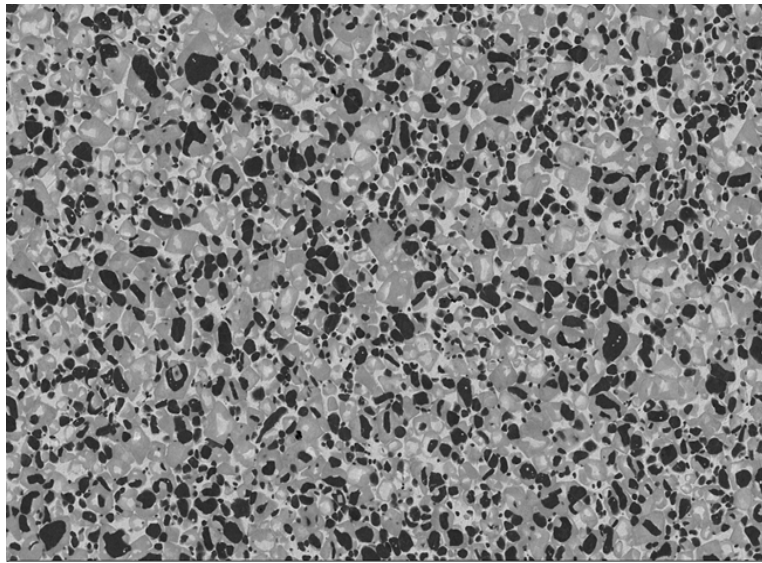
The cut edges of the parts exhibit excellent surface smoothness and high precision, allowing for a one-time cutting process and eliminating the need for additional finishing.



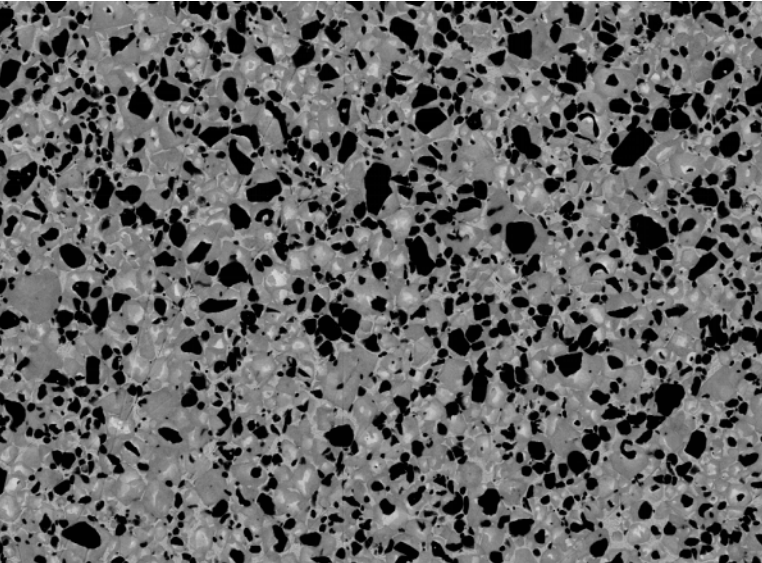
牌号 Grade	OKE905
密度 (g/cm ³)	7.25
维氏硬度 Hv30	1510
洛氏硬度 HRA	92.1
抗弯强度 TRS(MPa)	≥2100
断裂韧性 K _{IC} (Mpa.m ^{1/2})	≥9.0
ISO标准	P30



牌号 Grade	OKE931
密度 (g/cm ³)	7.20
维氏硬度 Hv30	1450
洛氏硬度 HRA	91.6
抗弯强度 TRS(MPa)	≥2300
断裂韧性 K _{IC} (Mpa.m ^{1/2})	≥9.2
ISO标准	P40



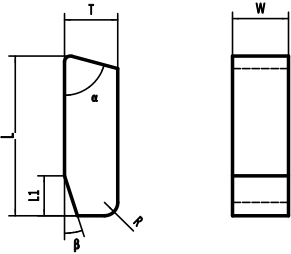
牌号 Grade	OKE901
密度 (g/cm ³)	7.20
维氏硬度 Hv30	1490
洛氏硬度 HRA	91.9
抗弯强度 TRS(MPa)	≥2200
断裂韧性 K _{IC} (Mpa.m ^{1/2})	≥9.0
ISO标准	P20-P40



主要型号
Main Size

单位/Unit:毫米/Minllimetre

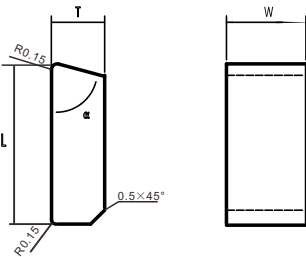
型号 Size	L	T	L1	α°	β°	R
JX4518801710-W	4.5	1.8	1.0	80	17	0.5
JX5018751515-W	5.0	1.8	1.5	75	15	0.5
JX5520751124-W	5.5	2.0	2.4	75	11	0.5
JX6020751815-W	6.0	2.0	1.5	75	18	0.5
JX6523702123-W	6.5	2.3	2.3	70	2.1	0.5



主要型号
Main Size

单位/Unit:毫米/Minllimetre

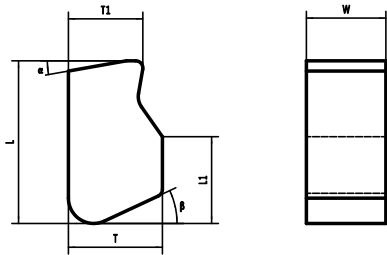
型号 Size	L	T	α°
JP501875PF-W	5.0	1.8	75
JP602075PF-W	6.0	2.0	75



主要型号
Main Size

单位/Unit:毫米/Minllimetre

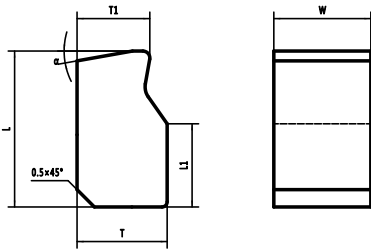
型号 Size	L	T	L1	α°	β°	R
JYS3320B-W	3.3	2.0	1.5	1.5	8	32
JYS4526B (A) -W	4.5	2.6	2.4	2.06	10	25



主要型号
Main Size

单位/Unit:毫米/Minllimetre

型号 Size	L	T	L1	α°
JPC402582F-W	4.0	1.98	1.0	8
JPC452680F-W	4.5	2.4	1.7	10



金属陶瓷冷锯切削参数例举
Examples of cutting parameters for cermet cold sawing

材料名称	锯片规格	转速	进给
Material Name	Saw Blade Size	Rotationl Speed	Feed
(牌号举例)	直径mm	r/min	mm/min
低碳钢 (Q235)	Φ285	120-130	400-600
中碳钢 (45#)	Φ285	110-120	400-600
合金钢 (40Cr)	Φ285	100-110	300-500
弹簧钢 (65Mn)	Φ285	100-110	300-500
轴承钢 (Gcr15)	Φ285	100-110	300-500

说明:根据实际工况选取合适切削参数,上述仅供参考
Note: Select appropriate cutting parameters based on actual working conditions.
The above information is for reference only.

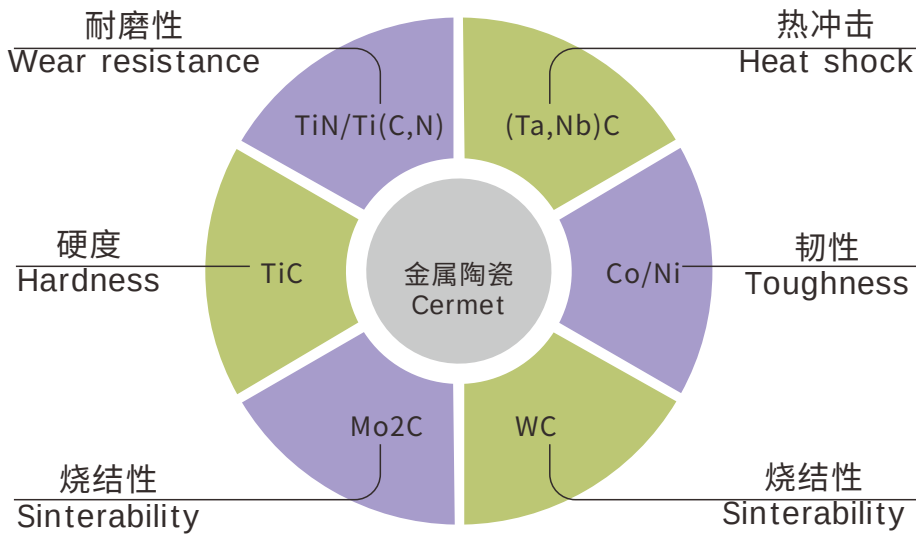


TiCN基金属陶瓷合金特性

具有优秀的高温硬度和抗月牙洼磨损性能,与钢铁材料摩擦系数较低,化学稳定性好。

TiCN-based cermets properties

It has excellent high-temperature hardness and crater wear resistance, low friction coefficient with steel materials,and good chemical stability.



产品应用---Product Applications

金属锯切
metal sawing



耐磨材料
Wear-resistant material



耐腐蚀材料
Corrosion-resistant materials



航天、汽车等领域
Space industry、Automotive industry...



数控刀具
CNC tool



整硬铣刀
Solid end mill



硬质合金木、铝用锯齿

适宜加工各种人造板材、铝型材等，根据不同的应用场景，我们可以提供不同的解决方案。超细颗粒、高硬度、高耐磨性、耐腐蚀性强可以进行表面处理，提高焊接性能可以量身定做模具，有效降低锯片制做成本，提高生产效率。

Carbide Saw Tips for Woodworking and Aluminum

Suitable for processing various artificial board materials, aluminum profiles, etc. depending on different application scenarios.

We can offer different solutions : Ultra-fine grain, high hardness, high wear resistance, and strong corrosion resistance.

Surface treatment can be carried out to improve the welding performance.

Custom molds can effectively reduce the production cost of saw blades and improve production efficiency.



牌号性能---Grade Property

牌号 Grade	粘结相(%) Binder	密度(g/cm³) Density	硬度Hardness		抗弯强度 (MPa) TRS	断裂韧性 (Mpa.m1/2) Kic	ISO标准 Code ISO
			Hv10	HRA			
OKE400	2	15.3	2150	95	2500	7.5	<K01
OKE402	2.8	15.2	2100	94.5	2600	7.5	<K01
OKE403	2.8	15.2	2080	94.2	2500	7.5	<K01
OKE405	3.3	15.2	1920	93.6	2500	8.2	K01
OKE406+	3.5	15.1	2000	93.8	2500	8	K01

推荐应用 Grade Recommendations

锯切材质 Cutting Applications	锯片名称 Saw Blade Name	推荐合金牌号 Recommended Grade		
		良好 Good	优秀 Very Good	卓越 Excellent
刨花板、密度板 Chipboard、Density Board	电子开料锯/往复锯用锯片 Panel Sizing Saw Blade and Reciprocating Saw Blade	OKE403	OKE402	OKE400
	裁板锯/推台锯用锯片 Panel Sizing Saw Blade and Sliding Table Saw Blade	OKE406+	OKE403	OKE402
	单划线锯片 Single Scoring Saw Blade	OKE403	OKE402	OKE400
	双划线锯片 Double Scoring Saw Blade	OKE406+	OKE403	OKE402
	加工相框、镜框用锯片 Saw Blade for Photo Frame and Mirror Frame Processing	/	OKE405	OKE403
	音响V槽机用锯片 V-Cutting Saw Blade	/	OKE403	OKE402
	实木横切锯/纵切锯 Cross Cutting and Score Cutting Saw Blade for Solid Wood	/	/	OKE405
	实木精切锯/超薄段付锯 Accurate Cutting Saw Blade for Solid Wood/Super-Thin Rim Saw Blade	/	/	OKE405
实木（软木/硬木/旧木） Solid Wood (Softwood/Hardwood/Used-wood)	实木多片锯 Multi-ripping Saw Blade for Solid Wood	/	/	OKE405
	双头锯断桥铝（建筑门窗用）合金锯切专用锯片 Saw Blade for Two-Cutted Saw	OKE406+	OKE403	OKE402
	铝合金角码切割用锯片 Saw Blade for Aluminum Bracket	OKE405	OKE406+	OKE403
	铜棒切割锯片 Saw Blade for Copper Bar	/	/	OKE405
有色金属（铝、铝合金、黄铜） Non-Ferrous Metal (Aluminum、Aluminum Alloy、Brass)				

硬质合金木、铝用锯齿

适宜加工各种原生木材、硬度不高的人造板材、铜铝型材及其坯料等；
根据不同的市场需求，我们可以提供多种解决方案以供选择；
可以量身定做模具，有效降低锯片制做成本，提高生产效率；
具有较高的硬度，同时还有优良的韧性。

Carbide Saw Tips for Woodworking and Aluminum

Suitable for processing various original wood, low hardness artificial boards, copper and aluminum profiles and their blanks.

According to different market demands, we can provide multiple solutions for selection.

Custom molds can effectively reduce the production cost of saw blades and improve production efficiency.

With high hardness and excellent toughness.



牌号性能---Grade Property

牌号 Grade	粘结相(%) Binder	密度(g/cm³) Density	硬度Hardness		抗弯强度 (MPa) TRS	断裂韧性 (Mpa.m1/2) Kic	ISO标准 Code ISO
			Hv10	HRA			
OKE302	5	15	1910	93.6	3000	8.7	K05
OKE305	5.5	14.95	1800	92.9	2500	8.9	K05
OKE211	8	14.7	1420	90.5	2500	10.5	K20
OKE213	12	14.35	1200	88.5	2600		K40
OKE215	7.6	14.15	1540	91.2	2400	11.5	K20
OKE216	8.5	14.7	1570	91.6	2650	11	K10
OKE217	5.5	14.9	1650	92.2	2300	10	K10
OKE218	6	14.85	1560	91.5	2400	11	K10

推荐应用 Grade Recommendations

锯切材质 Cutting Applications	锯片名称 Saw Blade Name	推荐合金牌号 Recommended Grade		
		良好 Good	优秀 Very Good	卓越 Excellent
实木（软木/硬木/旧木） Solid Wood (Softwood/Hardwood/Used-wood)	实木横切锯/纵切锯 Cross Cutting and Score Cutting Saw Blade for Solid Wood	OKE217	OKE302	/
	实木精切锯/超薄段付锯 Accurate Cutting Saw Blade for Solid Wood/Super-Thin Rim Saw Blade	/	OKE302	/
	实木多片锯 Multi-ripping Saw Blade for Solid-wood	/	OKE302	/
	细木工板（原生木）专切锯 Saw Blade for Blockboard(Original Wood)	OKE216	OKE217	OKE305
	细木工板（旧木）专切锯 Saw Blade for Blockboard (Usde Wood)	/	OKE216	OKE217
	旧木多片锯 Multi-ripping Saw Blade for Used Wood	/	OKE215	OKE218
	硬质合金带锯/框锯（普通木工用） Band Saw Blade/Frame Saw Blade(General Woodworking)	/	OKE217	OKE302
	有色金属（铝、铝合金、黄铜） Non-Ferrous Metal(Aluminum、Aluminum Alloy、Brass)	OKE211	OKE217	OKE305
	有机玻璃、亚克力、塑料专切用锯片 Saw Blade for PMMA、Acrylic、Plastic	OKE217	/	OKE302
	泡沫锯切用锯片 Saw Blade for Polystyrene Foam	/	OKE217	OKE302
有机材料 Other Organic Materials	便携式电动工具锯片 Saw Blade for Portable Power Tools	OKE211	/	OKE217

硬质合金木、铝用锯齿

适宜加工各种软木以及各种加工要求不高的场景；
根据客户的需求，我们可以提供多元化的解决方案；
可以量身定做模具，有效降低锯片制做成本，提高生产效率。

Carbide Saw Tips for Woodworking and Aluminum

Suitable for processing various soft woods and various scenes with low processing requirements;

According to customer needs, we can provide diversified solutions;

Custom molds can effectively reduce the production cost of saw blades and improve production efficiency.



牌号性能---Grade Property

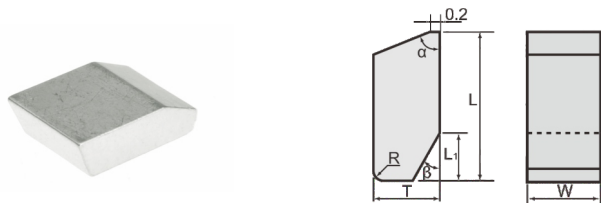
牌号 Grade	粘结相(%) Binder	密度(g/cm³) Density	硬度Hardness		抗弯强度 (MPa) TRS	断裂韧性 (Mpa.m1/2) Kic	ISO标准 Code ISO
			Hv10	HRA			
OKE107	7	14.8	1500	91	2300	10.5	K20
OKE109	8	14.65	1420	90.3	2500	11.5	K30
OKE114	11.5	12.4	1420	90.5	2700	12	K30

推荐应用 Grade Recommendations

锯切材质 Cutting Applications	锯片名称 Saw Blade Name	推荐合金牌号 Recommended Grade		
		良好 Good	优秀 Very Good	卓越 Excellent
实木（软木/硬木/旧木） Solid Wood (Softwood/Hardwood/Used-wood)	细木工板（旧木）专切锯 Saw Blade for Blockboard (Used Wood)	OKE107	/	/
	旧木多片锯 Multi-ripping Saw Blade for Used Wood	OKE109	/	/
	硬质合金带锯/框锯（普通木工用） Band Saw Blade/Frame Saw Blade (General Woodworking)	OKE109	/	/
	超市专售DIY合金锯片 DIY TCT Saw Blade for Supermarket Sale	OKE114	OKE109	OKE107
有机材料 Other Organic Materials	装修用锯片 Saw Blade for Decoration	OKE114	OKE109	OKE107

锯齿-JX系列

Carbide Saw Tips-JX Series

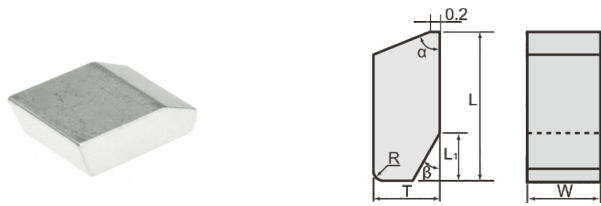


单位/Unit: 毫米/Minillimetre

型号 (Size)	L	T	α°	β°	L1	R
JX3219652010	3.2	1.9	65	20	1.0	0.5
JX4014601110	4.0	1.4	60	11	1.0	0.5
JX4314602010	4.3	1.4	60	20	1.0	0.5
JX4515602610	4.5	1.5	60	26	1.0	0.5
JX4520653010	4.5	2.0	65	30	1.0	0.5
JX4815702610	4.8	1.5	70	26	1.0	0.5
JX5015602015	5.0	1.5	60	20	1.5	0.5
JX5015702015	5.0	1.5	70	20	1.5	0.5
JX5016652213	5.0	1.6	65	22	1.3	0.5
JX5017602813	5.0	1.7	60	28	1.3	0.5
JX5020602020	5.0	2.0	60	20	2.0	0.5
JX5216652017	5.2	1.6	65	20	1.7	0.5
JX5316602118	5.3	1.6	60	21	1.8	0.5
JX5417602013	5.4	1.7	60	20	1.3	0.5
JX5516601420	5.5	1.6	60	14	2.0	0.5
JX5517602118	5.5	1.7	60	21	1.8	0.5
JX5518602217	5.5	1.8	60	22	1.7	0.5
JX5520602019	5.5	2.0	60	20	1.9	0.5
JX5716602014	5.7	1.6	60	20	1.4	0.5
JX5718602021R06	5.7	1.8	60	20	2.1	0.6
JX5818602014	5.8	1.8	60	20	1.4	0.5
JX5919602016	5.9	1.9	60	20	1.6	0.5
JX6018652418	6.0	1.8	65	24	1.8	0.5
JX6020602014	6.0	2.0	60	20	1.4	0.5
JX6022602014	6.0	2.2	60	20	1.4	0.5
JX6218623012	6.2	1.8	62	30	1.2	0.5
JX6319701820	6.3	1.9	70	18	2.0	0.5
JX6320652521	6.3	2.0	65	25	2.1	0.5
JX6518602014	6.5	1.8	60	20	1.4	0.5
JX6520602422	6.5	2.0	60	24	2.2	0.5
JX6522602016	6.5	2.2	60	20	1.6	0.5
JX6525602015	6.5	2.5	60	20	1.5	0.5

锯齿-JX系列

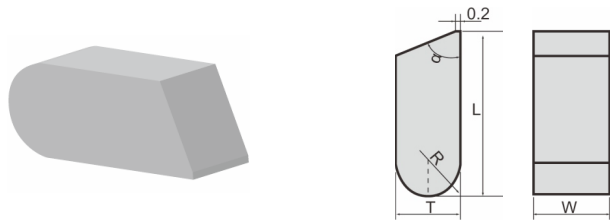
Carbide Saw Tips-JX Series



单位/Unit: 毫米/Minillimetre

型号 (Size)	L	T	α°	β°	L1	R
JX6820702019	6.8	2.0	70	20	1.9	0.5
JX7020702016	7.0	2.0	70	20	1.6	0.5
JX7022601624	7.0	2.2	60	16	2.4	0.5
JX7023652025	7.0	2.3	65	20	2.5	0.5
JX7025652220	7.0	2.5	65	22	2.0	0.5
JX7222652521	7.2	2.2	65	25	2.1	0.5
JX7520622022	7.5	2.0	62	20	2.2	0.5
JX7522601628	7.5	2.2	60	16	2.8	0.5
JX7523602018	7.5	2.3	60	20	1.8	0.5
JX7525652029	7.5	2.5	65	20	2.9	0.5
JX8020701515	8.0	2.0	70	15	1.5	0.5
JX8022601628	8.0	2.2	60	16	2.8	0.5
JX8023652025	8.0	2.3	65	20	2.5	0.5
JX8024701926	8.0	2.4	70	19	2.6	0.5
JX8025602028	8.0	2.5	60	20	2.8	0.5
JX8025752118	8.0	2.5	75	21	1.8	0.5
JX8525622030	8.5	2.5	62	20	3.0	0.5
JX8525702026	8.5	2.5	70	20	2.6	0.5
JX9025652032	9.0	2.5	65	20	3.2	0.5
JX9028652025	9.0	2.8	65	20	2.5	0.5
JX9030603016	9.0	3.0	60	30	1.6	0.5
JX9528652030	9.5	2.8	65	20	3.0	0.5
JX10025652425	10.0	2.5	65	24	2.5	0.5
JX10028602030	10.0	2.8	60	20	3.0	0.5
JX10030622538	10.0	3.0	62	25	3.8	0.5
JX10525601534	10.5	2.5	60	15	3.4	0.5
JX10528602528	10.5	2.8	60	25	2.8	0.5
JX10530652030	10.5	3.0	65	20	3.0	0.5
JX10535603026	10.5	3.5	60	30	2.6	0.5
JX12040603026R	12.0	4.0	60	30	2.6	0.8
JX12540603026	12.5	4.0	60	30	2.6	0.5
JX13040552055R	13.0	4.0	55	20	5.5	0.8

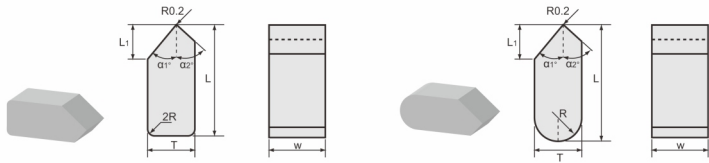
锯齿-JP系列
Carbide Saw Tips-JP Series



单位/Unit: 毫米/Minllimetre

型号 (Size)	L	T	α °	R	P
JP45146005-W	4.5	1.4	60	0.5	
JP50156005-W	5.0	1.5	60	0.5×45°	
JP54146005F-W	5.3	1.8	60	0.5×45°	
JP55166005-W	5.5	1.6	60	0.5	
JP55186005-W	5.5	1.8	60	0.5	
JP57207005-W	5.7	2.0	70	0.5	
JP58186005-W	5.8	1.8	60	0.5	
JP60175805-W	6.0	1.7	58	0.5	
JP63206705-W	6.3	2.0	67	0.5	
JP65207005-W	6.5	2.0	70	0.5	
JP70206505-W	7.0	2.0	65	0.5	
JP70236005-W	7.0	2.3	60	0.5	
JP80257505-W	8.0	2.5	75	0.5	
JP50208205	5.0	2.0	82	0.5	0.2
JP531560F	5.3	1.5	60	0.5×45°	0.2
JP60308205F	6.0	3.0	82	0.5×45°	0.2
JP652070F	6.5	2.0	70	0.5×45°	0.2
JP803090F	8.0	3.0	90	0.5×45°	0.2
JP853082F	8.5	3.0	82	0.5×45°	0.2
JP1004082R15	10.0	4.0	82	1.5	0.2
JP1206082R15	12.0	6.0	82	1.5	0.4
JP1406082R15	14.0	6.0	82	1.5	0.4
JP1504067	15.0	4.0	67	0.5	0.4
JP1606082R15	16.0	6.0	82	1.5	0.4
JP1806082R15	18.0	6.0	82	1.5	0.4
JP2006082R15	20.0	6.0	82	1.5	0.4

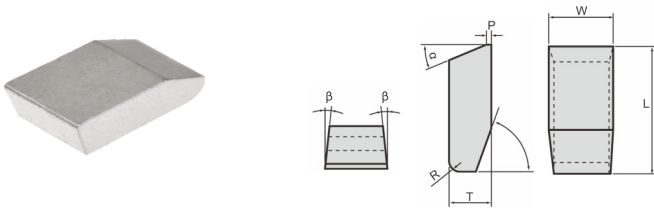
锯齿-JA系列
Carbide Saw Tips-JA Series



单位/Unit: 毫米/Minllimetre

型号 (Size)	L	T	a1°	a2°	L1	R
JA552010-W	5.5	2.0	39	80	1.23	1.0
JA602211-W	6.0	2.2	15	55	2.8	1.1
JA652010-W	6.5	2.0	40	40	1.37	1.0
JA652211-W	6.5	2.2	15	55	2.7	1.1
JA652211A-W	6.5	2.2	25	45	2.7	1.1
JA6522505-W	6.5	2.25	30	30	2.75	0.5
JA6522509-W	6.5	2.25	30	45	2.25	0.9
JA6523115-W	6.5	2.3	23.2	55	2.92	1.15
JA662010-W	6.6	2.0	30	50	1.56	1.0
JA702304-W	7.0	2.3	40	42	2.15	0.4
JA964824-W	9.6	4.8	21	53	3.6	2.4
JA995010-W	9.9	5.0	30	45	3.34	1.0

欧洲标准锯齿
Carbide Saw Tips-European Style



单位/Unit: 毫米/Minllimetre

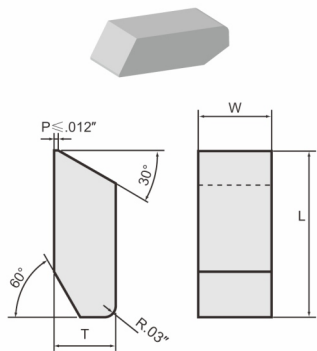
L	W	T	α°	β°	γ
5.0	1.8/2.2/2.4/2.8/3.2/3.5/4.0	1.5	28	45	0
5.5	2.0/2.3/2.8/3.4/5.5	1.5	20	75	0
6.0	2.3/2.5/2.7/3.0/5.0	1.8	20	65	4
6.0	2.0/2.4/2.6/2.8/3.0/3.2/3.5/3.8/4.5/5.0	1.8	28	45	0
6.0	2.4/2.6/2.8/3.2/3.4/3.6/4.0/5.0	2.0	28	45	0
6.5	1.9/2.2/2.7/3.3/6.5	1.6	28	70	5
6.5	2.6/3.0/3.2/3.4/3.5/3.8/ 4.0/4.2/6.0	2.0	30	65	5
6.5	2.2/2.4/2.6/2.8/3.2/3.3/3.5/3.7/3.8/6.0	2.0	28	56	0
6.5	2.2/2.3/2.5/2.8/3.0/3.1/3.2/3.3/3.6/4.3/4.5/5.3/6.0	2.0	28	56	5
7.0	2.0/2.3/2.5/2.7/3.2/3.3/3.6/3.8/4.4/6.0	2.0	28	70	5
7.0	3.0/3.3/3.6/3.8/4.0/4.2/4.6/5.0	2.2	28	70	5
7.0	2.8/3.0/3.2/3.4/3.7/4.0/6.5/7.0	2.3	20	76	0
7.5	2.0/2.2/2.4/2.8/3.0/3.2/3.6/3.8/6.0	2.0	28	70	5
7.5	2.5/2.8/3.0/3.2/3.4/3.6/3.8/4.0/4.2/4.4/4.5/5.2/6.0	2.5	28	70	5
7.5	2.8/3.2/3.5/3.7/4.5/5.0/5.6/6.0/6.5	2.4	30	50	0
8.0	2.4/2.8/2.9/3.0/3.1/3.2/3.3/3.4/3.5/3.6/3.8/3.9/4.04.3/4.4/4.5/4.8/5.0/5.2/5.5/6.0/6.8/8.0	2.3	28	70	5

单位/Unit: 毫米/Minllimetre

L	W	T	α°	β°	γ
8.0	2.8/3.0/3.3/3.5/3.8/4.1/4.2/4.6/5.0/5.2/5.5/10.0	2.5	28	70	5
8.0	3.6/4.1/4.3/4.6/4.8/5.0/5.5/5.5/6.0	3.0	25	45	0
8.5	2.8/3.0/3.3/3.4/3.5/3.6/3.8/4.1/4.2/4.3/4.6/5.0/6.0	2.5	28	70	5
9.0	3.6/4.3/4.5/5.2/5.5	2.7	28	45	5
9.0	3.1/3.3/3.5/3.6/3.8/4.3/4.5/4.7/5.2/5.5/5.8/6.0	2.7	28	70	5
10.0	3.4/3.5/4.3/6.5	2.5	20	68	0
10.0	3.5/3.7/3.9/4.0/4.3/4.5/4.7/5.0/5.5/6.0/6.5/7.0/7.5/10.0	2.8	28	70	5
10.0	3.5/3.8/4.3/4.5/4.7/4.8/5.0/5.3/5.4/5.5/6.0	3.0	15	72	0
10.5	3.0/3.5/3.8/7.0	2.3	28	70	5
10.5	3.0/3.3/3.4/3.5/3.6/3.8/4.0/4.1/4.3/4.4/4.5/4.6/5.2/5.5/6.5	2.5	28	70	5
10.5	3.0/3.4/3.5/3.6/3.8/4.1/4.3/4.5/4.6/4.7/4.8/5.0/5.3/5.5/5.6/5.6/6.0/6.5/7.0/7.5/14.5	3.0	28	70	5
10.5	3.5/3.9/4.0/4.2/4.3/4.4/4.5/4.6/4.7/4.8/5.0/5.3/5.5/5.8/6.0/6.5/7.0/8.0/8.5/9.0/10.5	3.5	28	70	5
10.5	3.5/3.9/4.0/4.1/4.3/4.5/4.7/4.8/4.9/5.1/5.5/6.0/6.5/7.0/9.0	3.5	39	59	5
10.5	4.1/4.8/5.0/5.5/6.0/6.5/7.5/8.5/9.5/11.0	3.5	30	75	0
12.0	4.5/4.6/4.7/5.1/5.5/5.8/6.0/6.3/6.5/7.0/8.0/8.5/10.0/12.5/17.0	3.5	30	45	10

美国标准锯齿

Carbide Saw Tips U.S.-Canadian Style



Type7000

Unit: inch

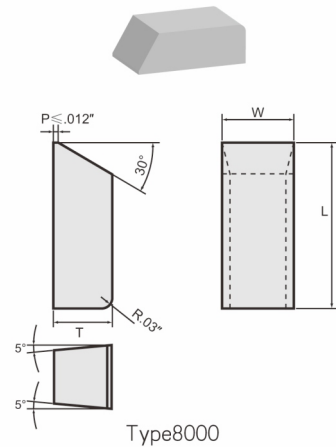
Code	L	W	T
CWB 7050-CWB 7500	.281	.050-.500	.078
CWD 7050-CWD 7500	.312	.050-.500	.093
CWE 7050-CWE 7500	.375	.050-.500	.093
CWF 7050-CWF 7800	.500	.050-.800	.125
CWG 7050-CWG 7800	.375	.050-.800	.125
CWH 7050-CWH 7800	.344	.050-.800	.125

Unit: inch

Code	L	W	T
WA 7050-WA 7500	.250	.050-.500	.062
WB 7050-WB 7500	.281	.050-.500	.078
WC 7050-WC 7500	.281	.050-.500	.093
WD 7050-WD 7800	.312	.050-.800	.093
WE 7050-WE 7800	.375	.050-.800	.093
WF 7050-WF 7800	.500	.050-.800	.125
WG 7050-WG 7800	.375	.050-.800	.125
WH 7050-WH 7800	.344	.050-.800	.125
WQ 7050-WQ 7800	.375	.050-.800	.156

美国标准锯齿

Carbide Saw Tips U.S.-Canadian Style



Type8000

Unit: inch

Code	L	W	T
WA 8050-WA 8500	.250	.050-.500	.062
WB 8050-WB 8500	.281	.050-.500	.078
WC 8050-WC 8500	.281	.050-.500	.093
WD 8050-WD 8800	.312	.050-.800	.093
WE 8050-WE 8800	.375	.050-.800	.093
WF 8050-WF 8800	.500	.050-.800	.125
WG 8050-WG 8800	.375	.050-.800	.125
WH 8050-WH 8800	.344	.050-.800	.125
WQ 8050-WQ 8800	.375	.050-.800	.156

Unit: inch

Code	L	W	T
CWD-R/L 7050-7500	.312	.050-.500	.093
CWE-R/L 7050-7500	.375	.050-.500	.093
CWF-R/L 7050-7500	.500	.050-.500	.125
CWG-R/L 7050-7500	.375	.230-.270	.125

硬质合金 金属加工锯齿

适宜加工各类钢铁制品，如管材、板材、坯料等；
可以量身定做模具，有效降低锯片制做成本，提高生产效率。

Carbide Saw Tips for Metal Cutting

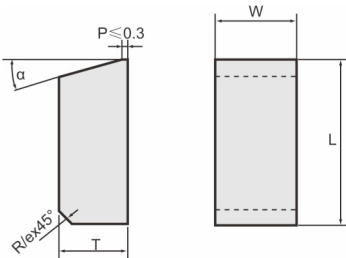
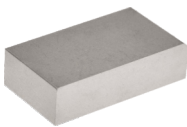
Suitable for processing various steel products such as pipes, plates, and billets;
Custom molds can effectively reduce the production cost of saw blades and improve production efficiency.



牌号性能---Grade Property

牌号 Grade	粘结相(%) Binder	密度(g/cm³) Density	硬度Hardness		抗弯强度 (MPa) TRS	断裂韧性 (Mpa.m1/2) Kic	ISO标准 Code ISO
			Hv10	HRA			
OKE509	12	12.5	1440	91.2	2100	10	P40
OKE505	10	12.2	1420	91	2050	9.5	P40
OKE511	11	13.15	1360	90	2200	10.5	P40
OKE523	10	12.1	1510	91.5	2050	9	P40

金属加工锯齿 Saw Tips for Metal Cutting



单位/Unit: 毫米/Minllimetre

L × W × T	α °	R
5.5 × W × 1.6	8	0.5
5.5 × W × 2.0	10	0.5
6.0 × W × 2.0	10	0.5
6.5 × W × 2.2	10	0.5
7.5 × W × 2.5	8	0.5 × 45°
8.0 × W × 3.0	8	0.5 × 45°
8.5 × W × 3.0	8	0.5 × 45°
9.0 × W × 4.0	8	0.5 × 45°
10.0 × W × 4.0	8	0.5 × 45°
12.0 × W × 4.0	8	0.7 × 45°
13.0 × W × 6.0	8	0.5 × 45°
15.0 × W × 4.0	8	0.5 × 45°
17.0 × W × 5.0	8	0.5 × 45°
20.0 × W × 6.0	8	0.5 × 45°

有色金属加工用 硬质合金圆片

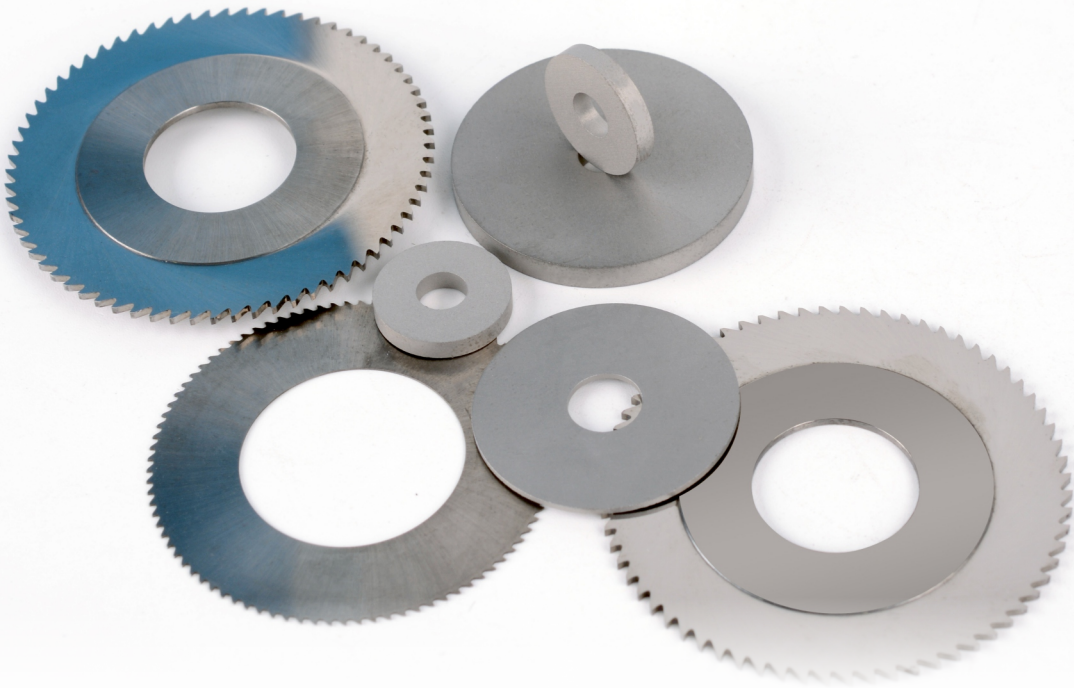
针对有色金属切削特质开发的专用材质；
制作圆片铣刀刃口锋利，与被加工材料亲和
力低；
不易粘屑，切削阻力小，被加工工件表面
光洁度高。

Carbide Saw Discs for Non-Ferrous Metal

Developed specifically for cutting properties of non-ferrous metals;

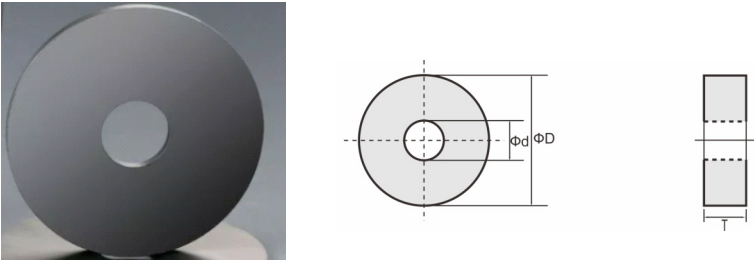
The circular milling cutter is made with a sharp edge and low affinity with
the processed material;

It is not easy to stick chips, the cutting resistance is small, and the
surface finish of the processed workpiece is high.



牌号性能---Grade Property

牌号 Grade	粘结相(%) Binder	密度(g/cm³) Density	硬度Hardness		抗弯强度 (MPa) TRS	断裂韧性 (Mpa.m1/2) K _{IC}	ISO标准 Code ISO
			Hv10	HRA			
OKE615	7	14.8	1720	92.5	3000	10.3	K01



典型规格型号（mm） Commonly specifications and models

外径 O.D.	内孔 I.D.	厚度 THK	外径 O.D.	内孔 I.D.	厚度 THK	外径 O.D.	内孔 I.D.	厚度 THK
ΦD	Φ d	T	Φ D	Ød	T	ØD	Ød	T
Φ12	Φ4.5	T	Φ25	Φ7.5	T	Φ51.5	Φ12	T
Φ14	Φ4.5	T	Φ26	Φ7.5	T	Φ51.5	Φ15.3	T
Φ17	Φ5.5	T	Φ33.5	Φ7.5	T	Φ76.5	Φ21	T
Φ21	Φ4.5	T	Φ41.5	Φ12	T	Φ81.5	Φ21.3	T

典型切削参数表 Commonly Cutting Parameters Table

被加工材料 Processed Material	线速度 Vc(m/min) Linear Speed	每齿进给 fz(mm) Feed Rate/1 tooth
铝合金 Aluminium alloy	500-1200	0.003-0.1
铜合金 Copper alloy	400-800	0.003-0.1

不锈钢、 合金钢加工用 硬质合金圆片

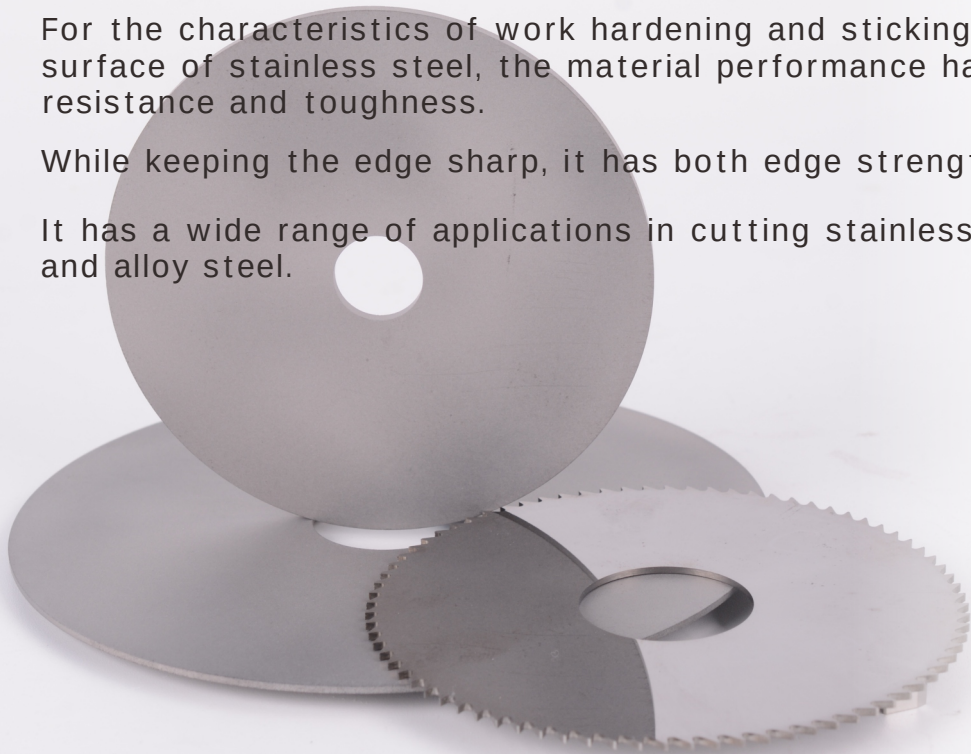
针对不锈钢切削表面易出现加工硬化与黏刀的特点, 材质性能兼具高耐磨性与韧性; 保持刃口锋利的同时兼具了刃口强度; 在不锈钢、碳素钢、合金钢切削领域适用性广。

Carbide Saw Discs for stainless steel and alloy steel

For the characteristics of work hardening and sticking on the cutting surface of stainless steel, the material performance has both high wear resistance and toughness.

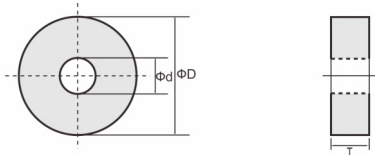
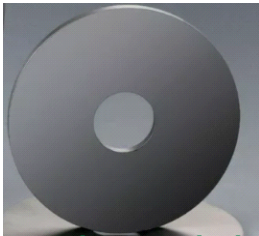
While keeping the edge sharp, it has both edge strength;

It has a wide range of applications in cutting stainless steel, carbon steel, and alloy steel.



牌号性能---Grade Property

牌号 Grade	粘结相(%) Binder	密度(g/cm³) Density	硬度Hardness		抗弯强度 (MPa) TRS	断裂韧性 (Mpa.m1/2) K _{IC}	ISO标准 Code ISO
			Hv10	HRA			
OKE619 NEW	12	14.1	1725	92.6	3600	9.8	K01
OKE618	11	14.3	1670	92.2	3200	10	K10
OKE616	10	14.45	1620	92	3500	10.2	K10



典型规格型号 (mm) Commonly specifications and models

外径 O.D.	内孔 I.D.	厚度 THK	外径 O.D.	内孔 I.D.	厚度 THK	外径 O.D.	内孔 I.D.	厚度 THK
ΦD	Φd	T	ΦD	Φd	T	ΦD	Φd	T
Φ41.5	Φ12	T	Φ81.5	Φ21.3	T	Φ152	Φ30.5	T
Φ51.5	Φ12	T	Φ91.5	Φ21.3	T	Φ162	Φ24	T
Φ64.5	Φ15.3	T	Φ102	Φ21	T	Φ162	Φ30.5	T
Φ71.5	Φ21	T	Φ152	Φ24	T	Φ182	Φ30.5	T

典型切削参数表 Commonly Cutting Parameters Table

被加工材料 Processed Material	线速度 Vc(m/min) Linear Speed	每齿进给 fz(mm) Feed Rate/ tooth
不锈钢 Stainless steel	500-1200	0.003-0.1
钛合金 Titanium alloy	400-800	0.003-0.1
碳素钢 carbon steel	200-350	0.003-0.1
预硬钢HRC30-38° Prehardening steel with HRC30-38°	100-200	0.003-0.006
淬硬钢HRC42-55° Quenched steel with HRC 42-50°	60-150	0.003-0.006
铸铁 Cast iron	200-400	0.02-0.3

指接刀系列

产品制作刀具,刃口锋利,保持性强;
木质纤维切削利落,加工木样表面质量高;
实现木样高端无缝拼接。

Carbide Tips for Finger Joint

The product is made of tools with sharp edges and strong retention.

Wooden fibers are cut cleanly,and the surface quality of the processed wood sample is high;

Realize high-end seamless splicing of wood samples.



牌号性能---Grade Property

牌号 Grade	粘结相(%) Binder	密度(g/cm³) Density	硬度Hardness HRA	抗弯强度 (MPa) TRS	推荐用途 Recommended cutting applications
OKE211	8	14.7	90.5	2500	 软木 softwood
OKE217	5.5	14.9	92.2	2300	 硬木 hardwood

开孔器

产品高红硬性，抵抗工件加工硬化能力强；
高端金属开孔器经典材质；
不锈钢板开孔利器。

Carbide Tips for Hole Saw

The product has high red hardness and strong resistance to work hardening of the workpiece;

High-end metal hole saw classic material;

Hole opening tool for stainless steel plate.



牌号性能---Grade Property

牌号 Grade	粘结相(%) Binder	密度(g/cm³) Density	硬度Hardness HRA	抗弯强度 (MPa) TRS	推荐用途 Recommended cutting applications
JK05P	10	12.2	91	2050	具有极佳的高温红硬性能，适用于中厚板，结构钢等深孔加工。 Great red hardness , suitable for holing middle thick plate and structural steel.
JK11	8	14.7	90.5	2300	通用性好，适用于不锈钢薄板等材质孔加工。 Good versatility , suitable for holing stainless sheet steel and other materials.

带锯齿

针对性开发的工艺制造流程；
保障产品均匀超细的组织结构；
精密微小制品的代表。

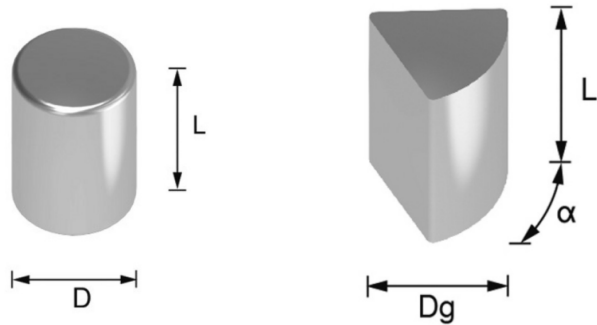
Carbide Tips for Band Saw

Targeted development of manufacturing process;
Ensure the uniform and ultra-fine structure of the product;
Representative of precision and tiny products.



牌号性能---Grade Property

牌号 Grade	粘结相(%) Binder	密度(g/cm³) Density	硬度Hardness		抗弯强度 (MPa) TRS	断裂韧性 (Mpa.m1/2) K _{IC}	推荐用途 Recommended cutting applications
			HV10	HRA			
OKE10N	10	14.45	1600	92	3500	12	木用，加工红木、硬木 Woodworking, for rosewood and hardwood.
OKE20P	10	14.45	1580	91.9	3600	13	金属加工用 Metalworking

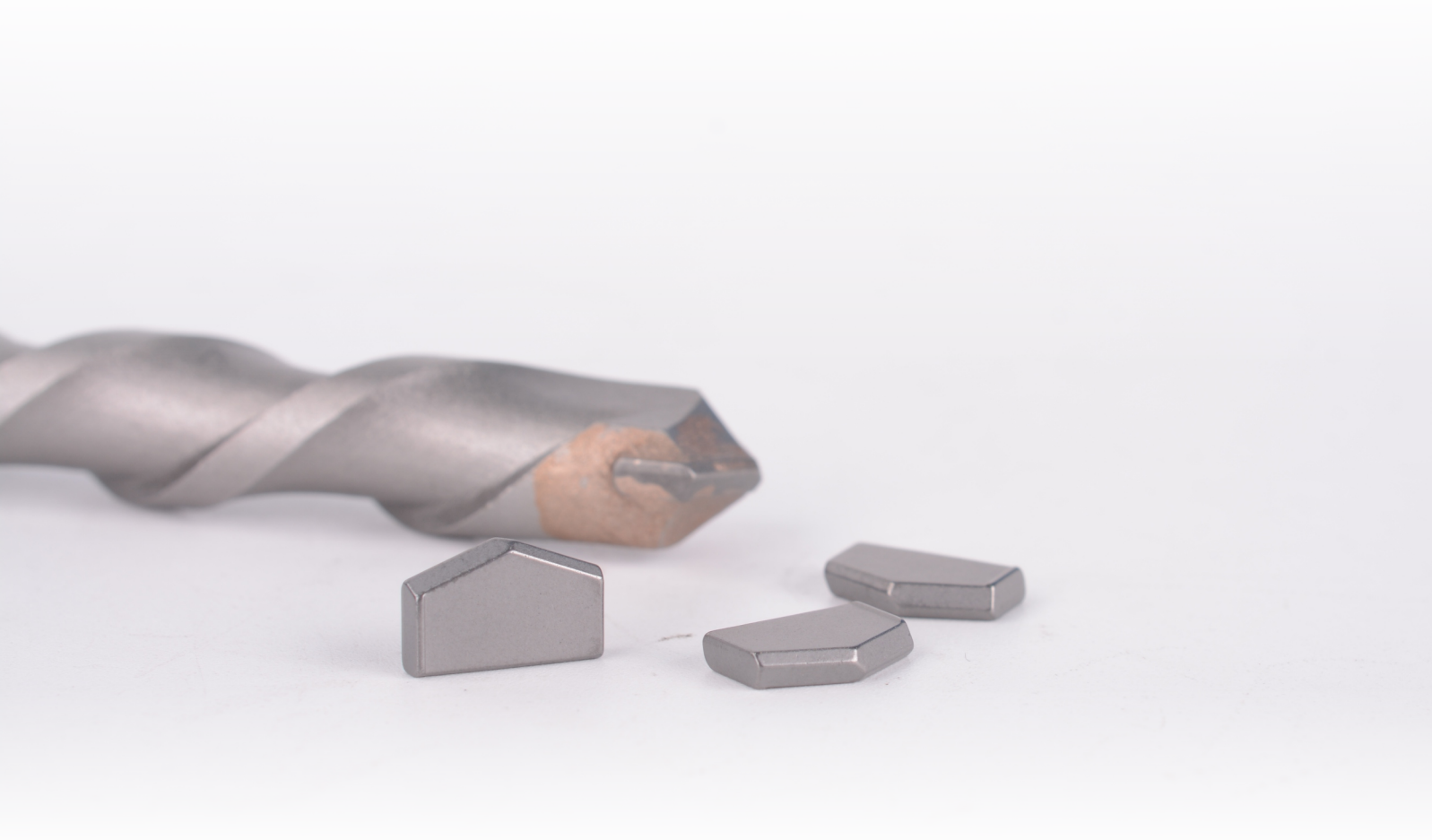


冲击钻片

特殊设计的增韧型组织结构,不惧千锤百炼。

Carbide Tips for Drill Bit

The specially designed toughened organizational structure is not afraid of repeated tempering.



牌号性能---Grade Property

牌号 Grade	粘结相(%) Binder	密度(g/cm³) Density	硬度Hardness		抗弯强度 (MPa) TRS	ISO标准 Code ISO	美国标准 Code U.S.
			Hv10	HRA			
OKE224	9	14.6	1330	89.5	2600	K40	C1
OKE225	8.5	14.72	1280	89.4	2500	K40	C1
OKE227	8	14.75	1430	90	2500	K30	C1
OKE228	8.5	14.72	1250	88.8	2800	>K40	—

防滑钉

产品表面特殊处理工艺, 保障后续焊接性能;
产品极高的韧性, 保障后续优异的使用性能。

Tungsten Carbide for Tire Studs

Special surface treatment process ensures the welding performance of the product in the later stage;
The product has extremely high toughness, guaranteeing excellent performance in subsequent use.



牌号性能---Grade Property

牌号 Grade	粘结相(%) Binder	密度(g/cm³) Density	硬度Hardness		抗弯强度 (MPa) TRS	断裂韧性 (Mpa.m ^{1/2}) K _{IC}
			HV10	HRA		
OKE233	13	14.2	1180	88	2600	15
OKE236	16.5	13.9	1100	87	2800	16

