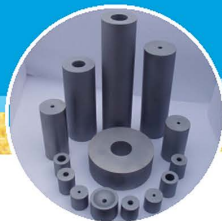
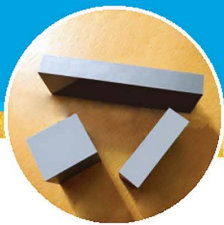


硬质合金产品

Tungsten carbide products



株洲三盈和国际贸易有限公司

ZHUZHOU SANYINGHE INTERNATIONAL TRADE CO.,LTD

中国·CHINA

牌号性能及用途介绍

Grade Performances and Applications cemented carbide



牌号 Grade	性能典型值 Typical property values			使用性能及用途 Performance and Applications	ISO分类 ISO code
	密度 (g/m³)	抗弯强度 TRS(N/mm²)	硬度 HRA		
YG 6	14.85 — 15.05	1800	92.8	耐磨性高。抗塑性变形能力好。适于高锰钢、不锈钢的连续或部断切削。 High wear resistance and high resistance to plastic deformation. Continuous or intermittent cutting of manganese steel and stainless steel.	K20
YG 6A	14.7 — 15.1	1880	92.8	耐磨性好，使用强度较好。使用于冷硬铸铁、有色金属及其合金的半精加工；也适于淬火钢、合金钢的半精加工及精加工。 Fine grained alloy, good wear resistance. Semi-finishing of chilled cast iron nonferrous metals & alloys; semi-finishing and finishing of hardened steel, alloy steel.	K10
YG 6X	14.8 — 15.1	2100	92.4	耐磨性高，使用强度好。适于加工冷硬合金铸铁与耐热合金钢，也适于普通铸铁的精加工。 Fine grain WC alloy, wear resistance higher than Yg6, strength close to YG6. Machining of chilled alloy cast irons and refractory alloy steel or finishing of ordinary cast irons.	K10
YG 8	14.6 — 14.85	2550	90.2	使用强度高，抗冲击，抗震性好，适于铸铁、有色金属及合金、非金属材料低速粗加工。	K30
YT 5	12.7 — 13.1	2000	90.4	在P类合金中，强度、抗冲击性及抗震性最好，但耐磨性较差。适于碳素钢与合金钢(包括锻件、冲压件、铸铁表皮)间断切削的粗车、粗刨、半精刨。 Best strength and high impact & shock resistance among W-C0-Ti alloys but wear resistance comparatively lower. Rough turning rough planning and semi-finishing planning of carbon steel and alloy steel (including forged steel parts, stamped parts and cast iron surfaces) during inter-mittent cutting.	P25 — P35
YT 15	11.1 — 11.5	1560	92.5	耐磨性较好，有一定的抗冲击韧性。适于钢、铸钢、合金钢中切削断面的半精加工或小切削断面的精加工。 Wear resistance higher than YT5, but impact toughness lower than YT5. Semifinishing of the medium chip sections of steel, cast steel and alloy steel or finishing of small chip sections.	P15 — P20
YW 1	13.35 — 13.55	1900	91.5	耐磨性高，使用强度较高，能承受较大的冲击负荷。适于耐热钢、高锰钢、不锈钢及高级合金钢管的粗加工，半精加工也适于普通钢和铸铁。 High wear resistance, strength comparatively higher and resistant to high impact load. Roughing and-medium machining of ordinary steel, cast irons as well as refractory steel, manganese steel, stainless steel and advanced alloy steel.	M20 — M30

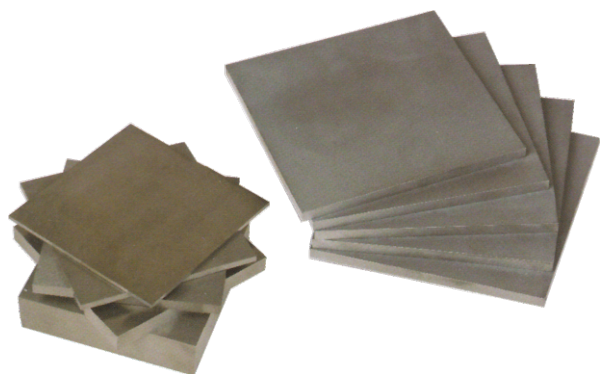


硬质合金产品

Tungsten carbide products

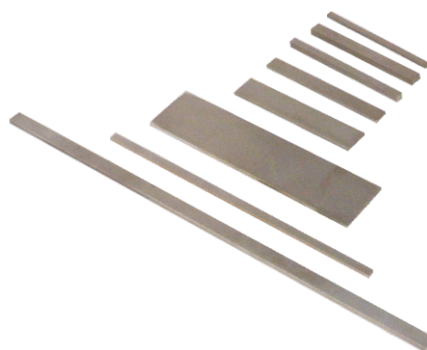
板材

Tungsten carbide Boards



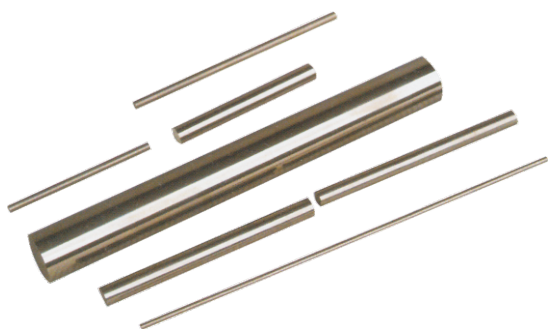
长条薄片

Tungsten carbide Strips



精磨圆棒

Tungsten carbide ground Rods



拉丝模

Tungsten carbide Wire-drawing Dies



非标产品





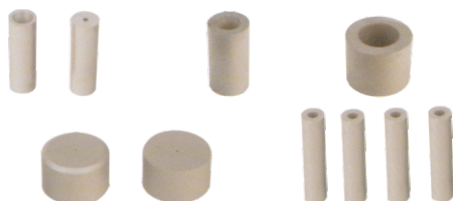
地矿工具

Tungsten carbide geology and mining tools



冷镦、冷冲模、喷嘴

Tungsten carbide Coldchasing dies, spray nozzles



各种焊接、机夹刀片

Tungsten carbide welding blades, Machine clip blades



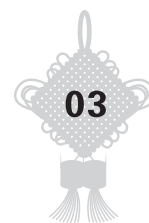
圆锯片

Tungsten carbide saw bits



精加工钻头

Tungsten carbide drills





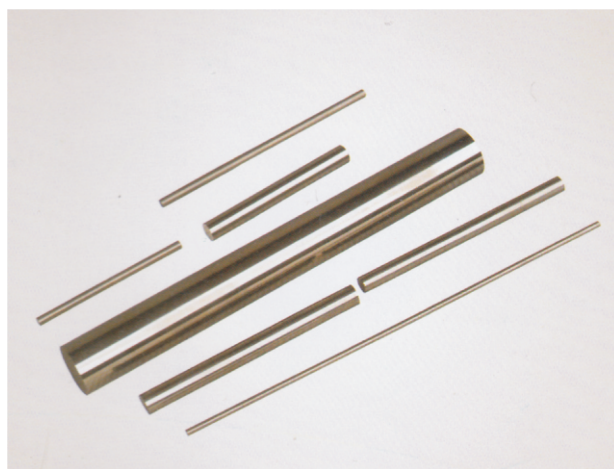
硬质合金圆棒

Tungsten carbide Rods



适用于制造高性能硬质合金
刀具，钻嘴，芯棒，耐冲击剪断
模，连续冲模等。

Applicable for producing
high—performance cemented
carbide cutters, drilling bits,
inner bars, impact resistance
cutter moulds, and hand—running
push—mou lds etc.



公 制

型号 Type	D	L	型号 Type	D	L
Φ1.0x100	1.0	100	Φ7.5x40-150	7.5	40-150
Φ1.5x100	1.5	100	Φ8.0x40-150	8.0	40-150
Φ2.0x100	2.0	100	Φ9.0x40-150	9.0	40-150
Φ2.35x38.5	2.35	38.5	Φ10.0x40-160	10.0	40-160
Φ2.35x50	2.35	50	Φ11.0x40-160	11.0	40-160
Φ2.5x100	2.5	100	Φ12.0x40-160	12.0	40-160
Φ3x38.5-120	3.0	38.5-120	Φ13.0x40-160	13.0	40-160
Φ3.5x38.5-120	3.5	38.5-120	Φ14.0x40-160	14.0	40-160
Φ4.0x40-120	4.0	40-120	Φ15.0x40-160	15.0	40-160
Φ4.5x40-120	4.5	40-120	Φ16.0x40-200	16.0	40-200
Φ5.0x40-120	5.0	40-120	Φ18.0x40-200	18.0	40-200
Φ5.5x40-120	5.0	40-120	Φ20.0x40-200	20.0	40-200
Φ6.5x40-150	6.5	40-150	Φ25.0x40-200	25.0	40-200
Φ7.5x40-150	7.0	40-150			

毛坯棒

型号 Type	D	L	型号 Type	D	L
Φ3x330	3.0	330	Φ10x330	10.0	330
Φ3.5x330	3.5	330	Φ10.5x330	10.5	330
Φ4.0x330	4.0	330	Φ11x330	11.0	330
Φ4.5x330	4.5	330	Φ11.5x330	11.5	330
Φ5x330	5.0	330	Φ12x330	12.0	330
Φ5.5x330	5.5	330	Φ12.5x330	12.5	330
Φ6x330	6.0	330	Φ13x330	13.0	330
Φ6.5x330	6.5	330	Φ13.5x330	13.5	330
Φ7x330	7.0	330	Φ14x330	14.0	330
Φ7.5x330	7.5	330	Φ14.5x330	14.5	330
Φ8x330	8.0	330	Φ15.5x330	15.5	330
Φ8.5x330	8.5	330	Φ16.5x330	16.5	330
Φ9x330	9.0	330	Φ18.5x200	18.5	200
Φ9.5x330	9.5	330	Φ20.5x330	20.5	330
			Φ25.5x200	25.5	2000



硬质合金圆棒

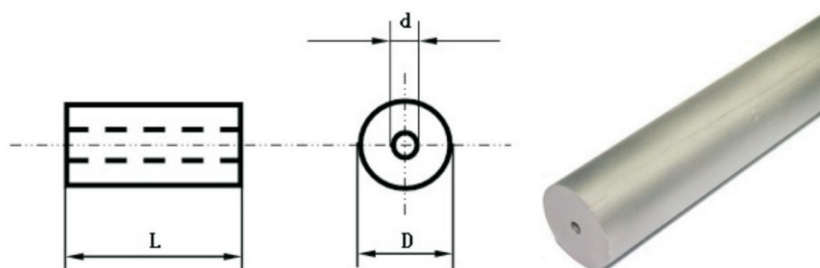
Tungsten carbide Rods

硬质合金圆棒系列规格表

SPECIFICATIONS FOR SERIES OF MINERAL HARD ALLOY

» 单直孔硬质合金棒材

型号表示: $\Phi D \times \Phi d \times L$



外径 (mm)	外径公差 (mm)	孔尺寸 (mm)	孔公差 (mm)	同心度	长度 (mm)	长度公差 (mm)
Φ2.5	+0.20~+0.50	0.3	±0.10	0.2	330	0~+5.0
Φ4.0	+0.20~+0.50	1.0	±0.15		330	0~+5.0
Φ6.0	+0.20~+0.50				330	0~+5.0
Φ8.0	+0.20~+0.50	1.5			330	0~+5.0
Φ10.0	+0.30~+0.30	2.0	±0.20	0.25	330	0~+5.0
Φ12.0	+0.30~+0.30				330	0~+5.0
Φ14.0	+0.30~+0.30				330	0~+5.0
Φ16.0	+0.30~+0.30				330	0~+5.0
Φ18.0	+0.40~+0.80	3.0	±0.25	0.30	330	0~+5.0
Φ20.0	+0.40~+0.80				330	0~+5.0
Φ22.0	+0.40~+0.80				330	0~+5.0
Φ24.0	+0.40~+0.80				330	0~+5.0
Φ26.0	+0.40~+0.80	5.0	±0.35		330	0~+5.0

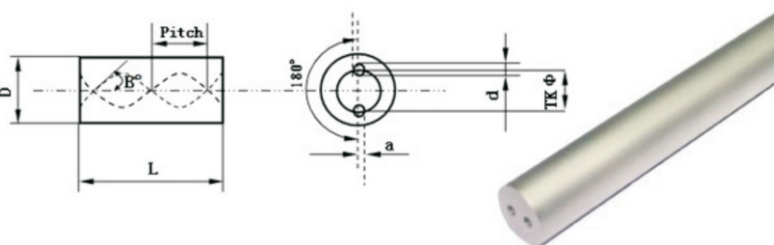
» 双螺旋孔硬质合金棒材

型号表示: $\Phi D \times 2 \Phi d \times TK \Phi XLB$

(L表示长度, B表示螺旋角度 30°)

也可取A、C、D:分别为 15°

40° 45°)

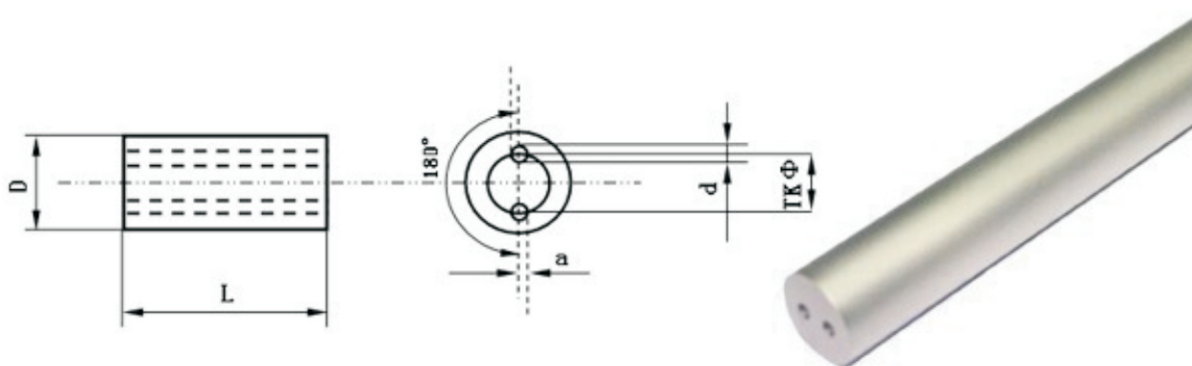


外径 (mm)	外径公差 (mm)	孔尺寸 (mm)	孔公差 (mm)	孔间距 (mm)	孔间距公差 (mm)	孔偏离 (mm)	螺距 (mm)		角度公差
$\Phi 6.3$	$0 \sim +0.3$	0.7	± 0.10	2.6	-0.40	0.15	32.65	$-3.0 \sim +3.0$	$15^\circ \pm 0.5^\circ$
$\Phi 8.3$		1.0	± 0.15	4.0	-0.40	0.15	43.53	$-4.5 \sim +4.5$	
$\Phi 10.3$		1.4	± 0.15	4.8	-0.60	0.20	54.41	$-4.5 \sim +4.5$	
$\Phi 12.3$	$0 \sim +0.4$	1.4	± 0.20	6.25	-0.80	0.30	65.30	$-7.0 \sim +7.0$	$30^\circ \pm 0.5^\circ$
$\Phi 14.3$		1.75	± 0.20	7.1	-1.0	0.37	76.18	$-7.0 \sim +7.0$	$45^\circ \pm 0.5^\circ$
$\Phi 16.3$		1.75	± 0.20	8.3	-1.0	0.40	87.06	$-7.0 \sim +7.0$	$60^\circ \pm 0.5^\circ$
$\Phi 18.3$	$0 \sim +0.5$	2.0	± 0.25	9.55	-1.0	0.50	97.95	$-7.5 \sim +7.5$	$60^\circ \pm 0.5^\circ$
$\Phi 20.3$		2.0	± 0.25	10.40	-1.0	0.50	108.83	$-7.5 \sim +7.5$	



» 双直孔硬质合金棒材

型号表示: $\Phi D \times 2\Phi d \times TK \Phi XLZ$ (L表示长度, Z表示双直孔)

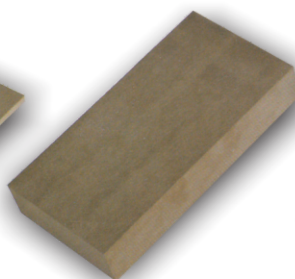
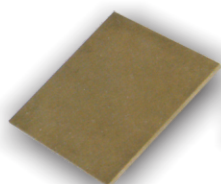
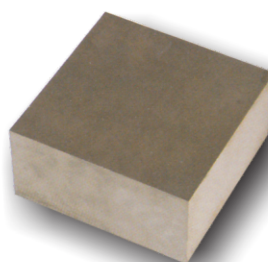
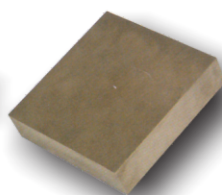
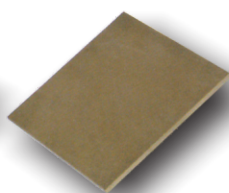
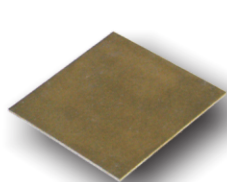


外径 (mm)	外径公差 (mm)	孔尺寸 (mm)	孔公差 (mm)	孔间距 (mm)	孔间距公差 (mm)	孔偏离 (mm)
$\Phi 6.3$	0~+0.3	1.0	± 0.10	3.0	-0.2	0.15
$\Phi 8.3$		1.0	± 0.15	4.0	-0.3	0.15
$\Phi 10.3$		1.4	± 0.15	5.0	-0.3	0.20
$\Phi 12.3$	0~+0.4	1.75	± 0.15	6.0	-0.5	0.30
$\Phi 14.3$		1.75	± 0.15	7.0	-0.5	0.37
$\Phi 16.3$		2.0	± 0.20	8.0	-0.5	0.40
$\Phi 18.3$	0~+0.5	2.0	± 0.20	9.0	-0.8	0.50
$\Phi 20.4$		2.5	± 0.25	10.0	-0.8	0.50



硬质合金板材

Tungsten carbide Boards

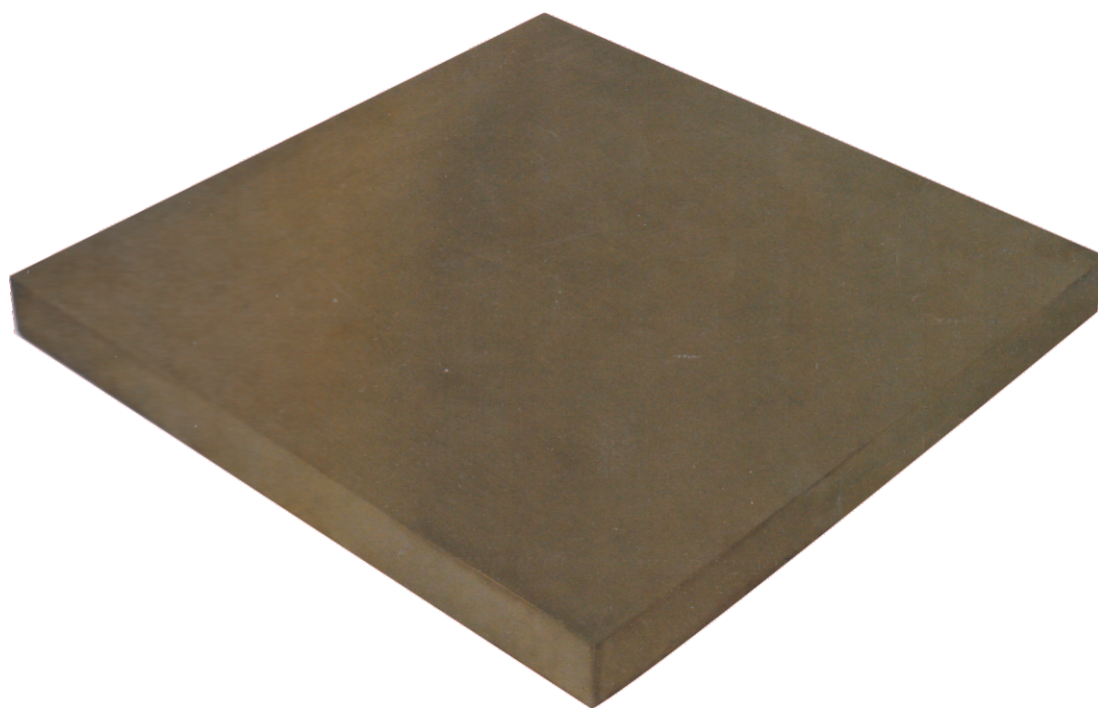


基本尺寸 Dimension(mm)		
宽度 W	长度 L	厚度 T
10	10	2.0-10
12	12	2.0-12
15	15	2.0-15
16	50	2.0-20
25	25	2.0-25
32	49	2.0-30
35	90	2.0-35
40	70-200	2.0-40
50	80-120	2.0-50
58	100	2.0-50
62	100	2.0-50
70	150	2.0-50
80	100	2.0-50
100	100-200	2.0-50
110	110	2.0-50
124	286	2.0-50
248	286	2.0-50

独具特色的生产控制和检测技术使大尺寸模具材料产品的内应力得到了控制，有效避免产品在线切割时的开裂现象，远离气孔和裂纹等缺陷。

产品性能稳定，质量可靠。

Unique controlling and examining techniques reduce the interior stress of large-sized mould material products, which avoids effectively the cracking when products are being wire-electrode cut. keeping away from the deficiencies such as blowholes and cracks.





硬质合金长条

Tungsten carbide Strips

硬质合金长条具有高硬度，耐腐蚀、导热性能好、焊接性好、高耐磨的特性，主要应用于制作加工实木、密度板、灰口铸铁、有色金属材料、冷硬铸铁、淬硬钢、PCB等。使用时应该根据使用用途选择合适的硬质合金长条。

Tungsten carbide strips have high hardness, corrosion resistance, good heat conduction performance, good weldability, high wear resistant properties, are mainly used in the production of solid wood, MDF, gray cast iron, non-ferrous metal materials, chilled cast iron, hardened steel, PCB etc... Please select suitable tungsten carbide strips based on the application of difference grade.



硬质合金长条系列规格表

SPECIFICATIONS FOR SERIES OF MINERAL HARD ALLOY

基本尺寸 Dimension(mm)		
宽度 W	长度 L	厚度 T
3.2	72.6-127	1.5-3.2
4.2	73-100	1.5-4.2
4.4	140	1.5-4.4
4.8	152	1.5-4.8
5.0	100-310	1.5-5
6.0	100-310	1.5-6
6.5	100-240	1.5-6.5
7.0	100	1.5-7
7.9	76-150	1.5-7.9
8.0	100-310	1.5-8
8.5	280	1.5-8.5
9.5	76-150	1.5-9.5
10.0	100-310	1.5-10
12.0	100-310	1.5-12
12.7	100-150	1.5-12.7
13.0	140	1.5-13
13.5	320-850	1.5-13.5
14.0	185-310	1.5-14
15.0	210-320	1.5-15
15.9	76-152	1.5-15.9

基本尺寸 Dimension(mm)		
宽度 W	长度 L	厚度 T
17.0	150	1.5-17
18.0	210-310	1.5-18
19.1	76-152	1.5-19.1
20.0	150-310	1.5-20
21.0	137	1.5-21
22.0	165-310	1.5-22
22.2	152	1.5-22.2
23.0	140	1.5-23
24.0	310	1.5-24
25.0	150-310	1.5-25
25.4	127-152	1.5-25.4
28.0	165-310	2.0-28
28.7	152	2.0-31.8
30.0	165-310	2.0-30
31.8	152	2.0-31.8
32.0	310	2.0-32
35.5	165-310	2.0-35
38.1	152	2.0-38.1
40.0	160-310	2.0-40
50.0	300	2.0-50

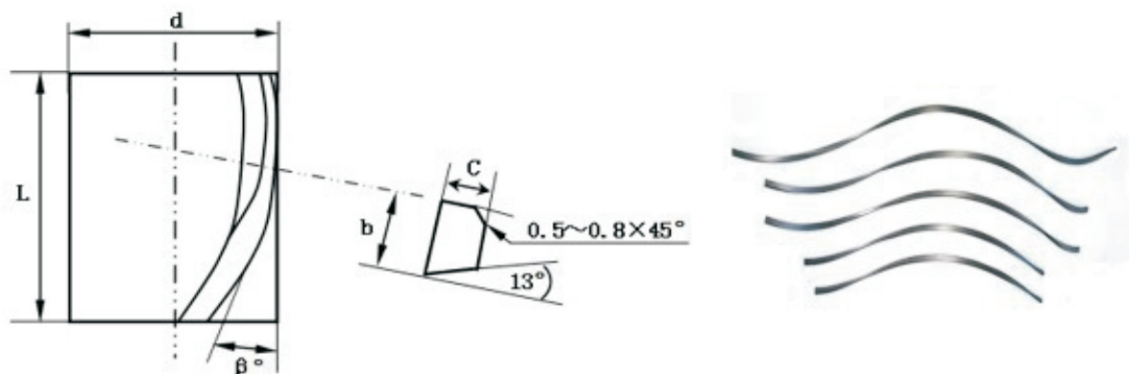


硬质合金螺旋条

Tungsten carbide Spiral strips

硬质合金螺旋条系列规格表

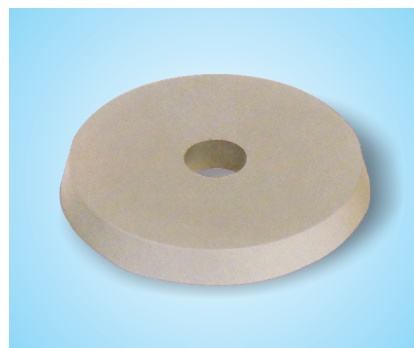
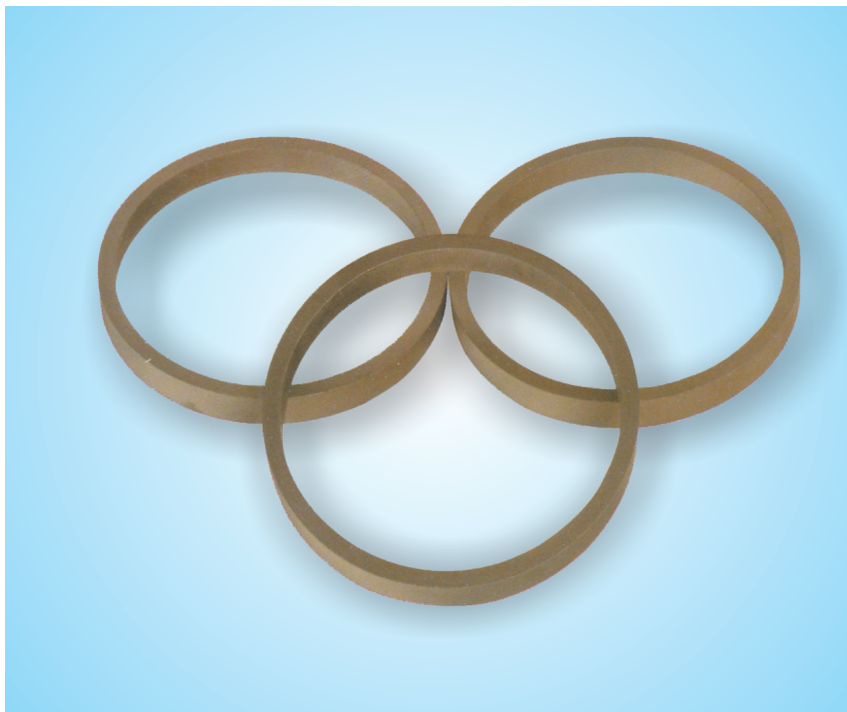
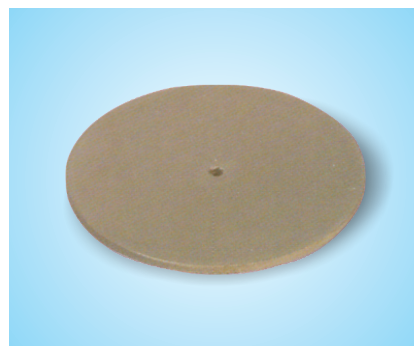
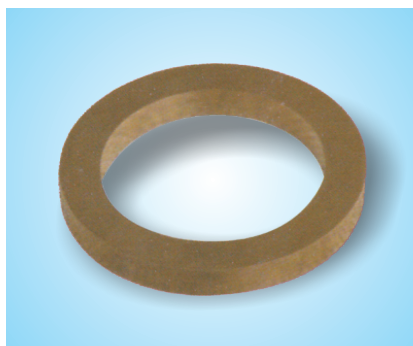
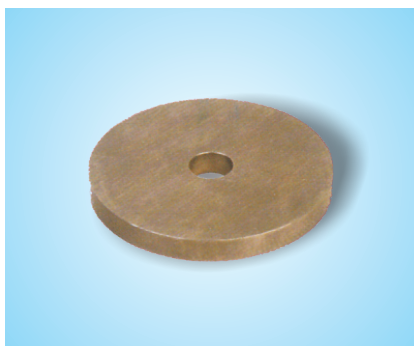
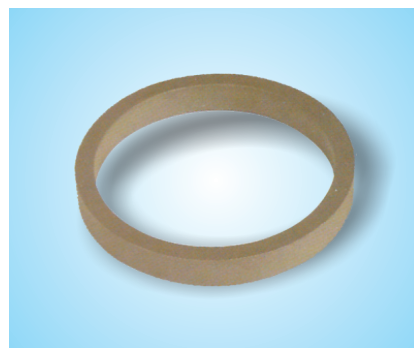
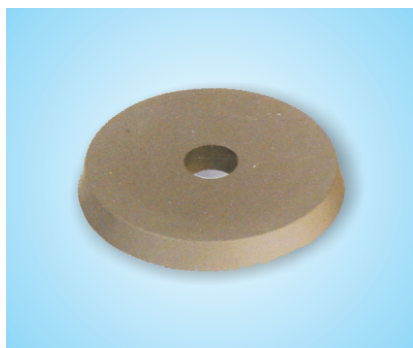
SPECIFICATIONS FOR SERIES OF MINERAL HARD ALLOY



型 号 (dxL~β°)	轴向长度公差 (mm)	螺旋角 (β°)	螺旋 角公 差	尺寸b (mm)	尺寸b公差 (mm)	尺寸c (mm)	尺寸c公差 (mm)
Φ28x310~30°	+3.0~+6.0	30°	± 1°	5.5	-0.15~+0.25	3.3	-0.15~+0.25
Φ30x310~30°							
Φ32x310~30°							
Φ36x310~30°							
Φ40x310~30°				6.5		3.5	
Φ45x310~30°							
Φ50x310~30°							
Φ63x310~30°							
Φ28x310~30°	+3.5~+7.5	45°		5.5	-0.15~+0.25	3.3	-0.15~+0.25
Φ30x310~45°							
Φ32x310~45°							
Φ36x310~45°							
Φ40x310~45°				6.5		3.5	
Φ45x310~45°							
Φ50x310~45°							
Φ63x310~45°							

硬质合金圆环

Tungsten carbide Rings





硬质合金矿山、地质工具

Tungsten carbide geology and mining tools

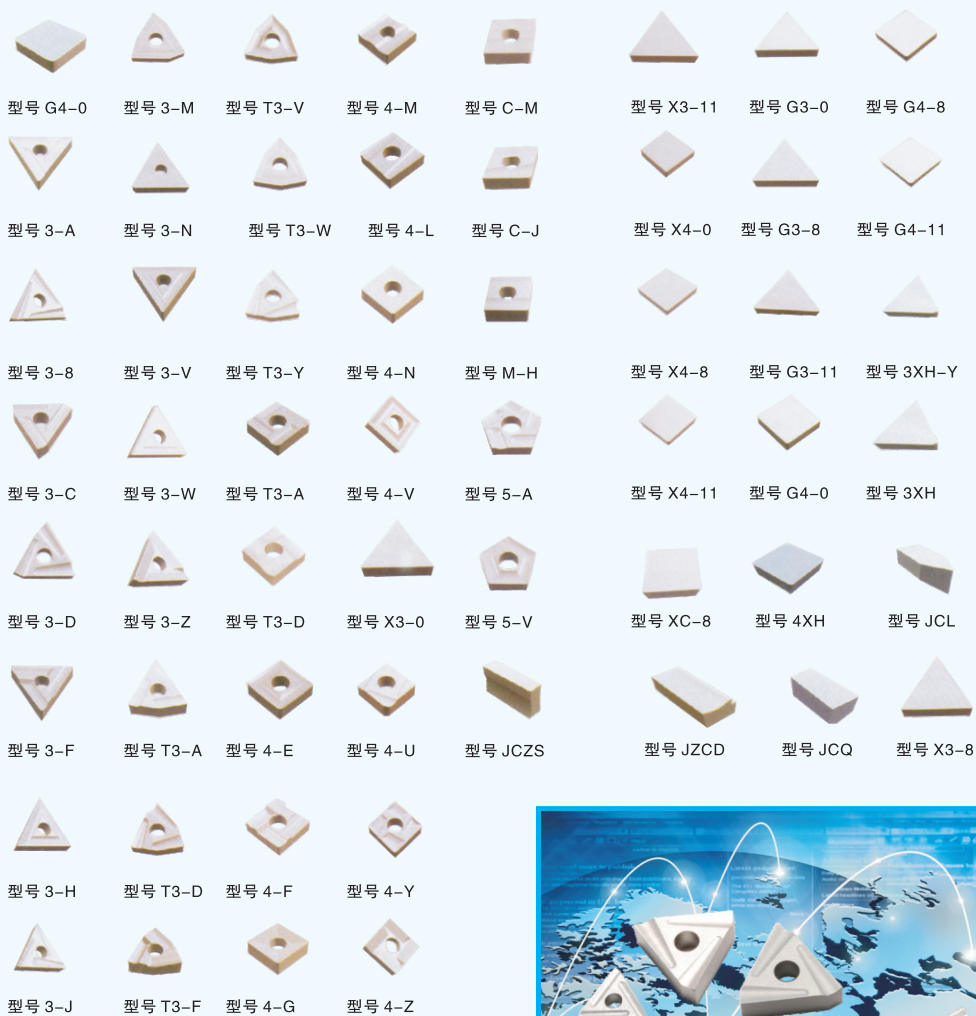






硬质合金机夹刀片

Tungsten carbide machine clip blades



硬质合金焊接刀片

Tungsten carbide welding blades





硬质合金拉丝模

Tungsten carbide Wire-drawing Dies

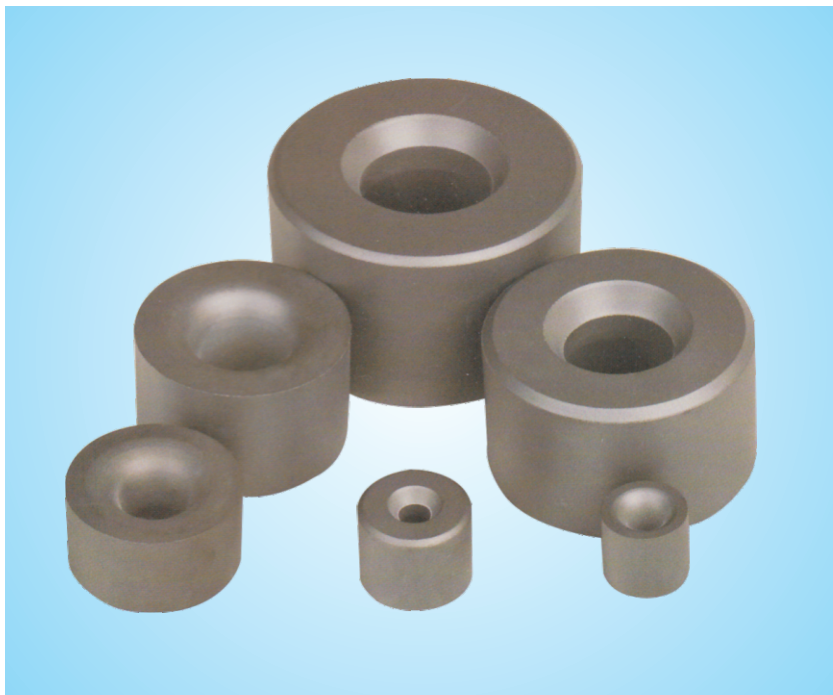
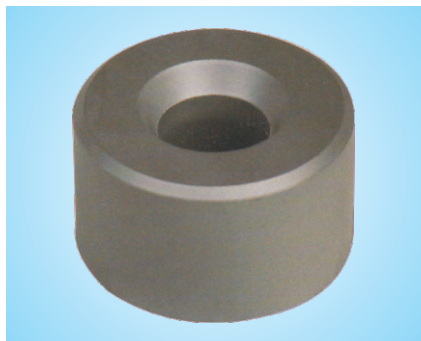
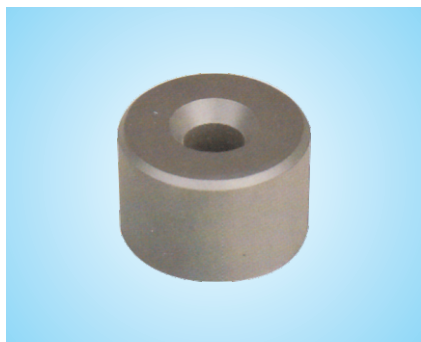
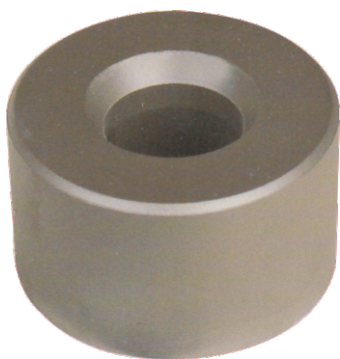
产品毛坯尺寸一致性强，利于后续加工工艺控制。

产品致密度好，针对不同材料选用相应的材质，实现高强度和高耐磨性的更优组合。

模具齐全

The remarkable consistency in the sizes of semifinished products is good for the controlling of the following—up processing techniques.

The products have fine density. Choosing appropriate materials according to different products makes a good combination of high intensity and high abrasive resistance.



硬质合金拉丝模

Tungsten carbide Wire-drawing Dies



A型、B型



E型、F型



型号10



型号21



型号40



A型、B型



型号SA16



型号11



型号22



型号41



A型、B型



型号SA20



型号12



型号23



型号42



C型、D型



型号SE50



型号13



型号30



型号60



型号01



型号20

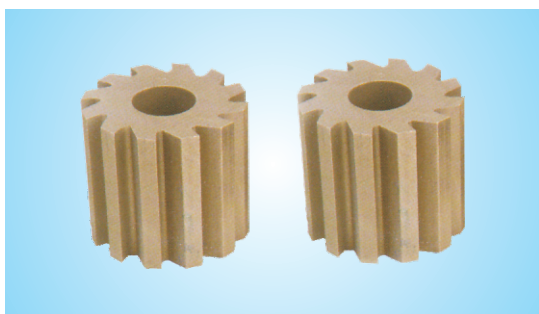
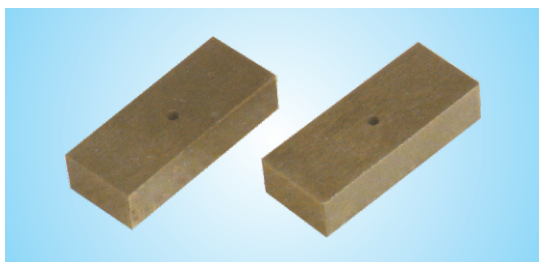
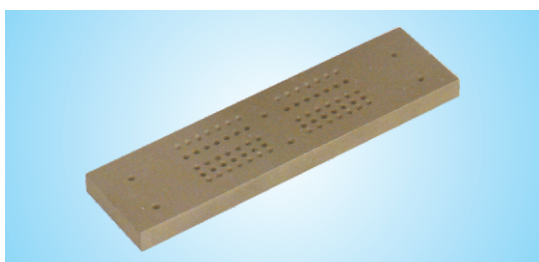
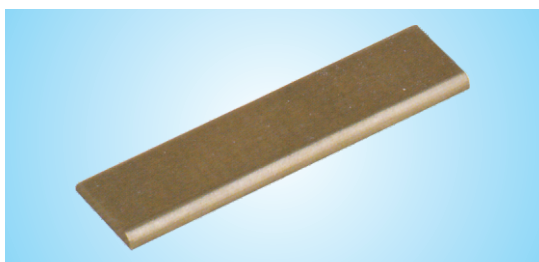


型号31



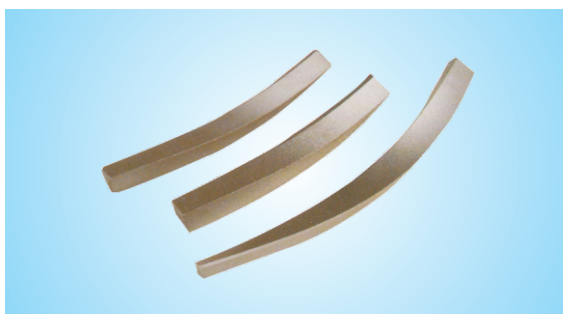
硬质合金异形产品

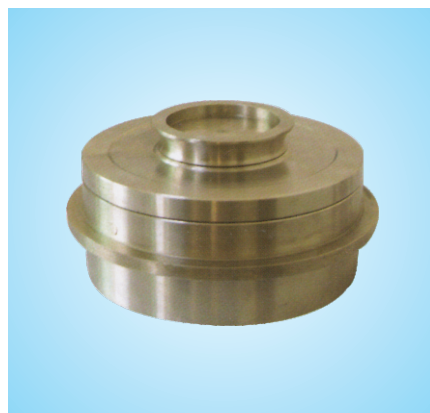
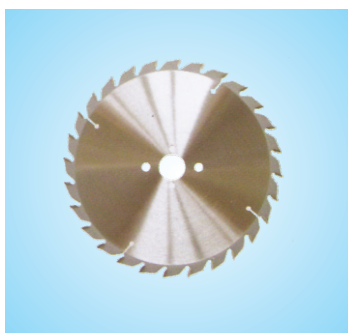
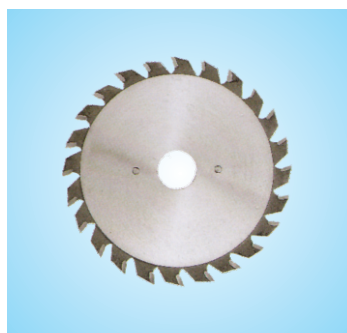
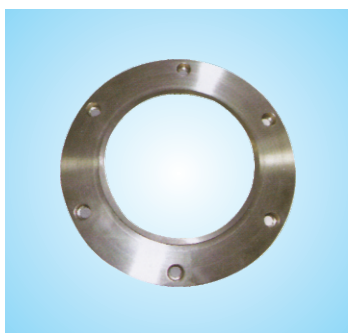
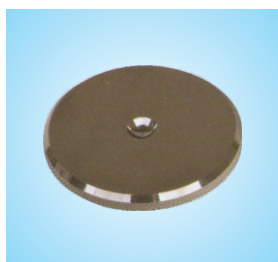
Anomaly Tungsten carbide products



★切可提供的异型制品规格众多，有3万余套异型制品模具及各种先进的成型设备和手段，可广泛满足各行业对各种形状与用途产品的需求，可跟据您的要求，来图来样组织生产。以下是部分异型制品的范例。

☆There is a wide assortment of speci of special cemented carbide products with around 30, 000 sets of dies&moul — ds and advanced forming equipment and means, meeting a wide range of requirements forvarious shapes and appl—ica tions in various industries. The products can be manufactured based on your drawings and samples. Below are s—ome examples of special cemented carbide products.







冷墩模、喷嘴、衬套系列

Cold heading die, nozzle, bushes, etc

