hard material matters

ToolingBox®

ToolingBox Industrial Technology Co.,Ltd

Tungsten Carbides for Precision Manufacturing

Company Introduction

ToolingBox Industrial Technology Co.,Ltd is a Chinese professional manufacturer and importer&exporter for metal tooling, machinery and materials industries. We specialise in supplying solid&Brazed CBN tools, and tungsten carbide products for tooling industry.

Based headquarters in Beijing and 3 factories located in Chengdu,Zhuzhou and Zhengzhou, ToolingBox works and lives with the ISO 9001 quality management system, raw materials of tools were chose carefully from China local, each step of the tools manufacturing process is planned and controlled by our professional engineers, each item is inspected prior to dispatch, so we can offer solid CBN and tungsten carbide products with the highest quality: Indexable inserts, saw tips, carbide rods,carbide blanks, carbide wear parts, planer knives, textile and film carbide cutter knives, ISO and solid CBN inserts and so on, as well as a rapid production of small and large scale carbide products as per your drawing.

ToolingBox, Your partner for tungsten carbides products!.



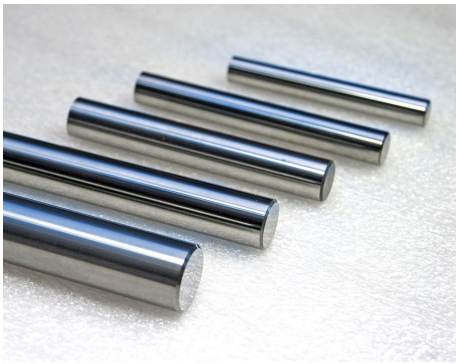






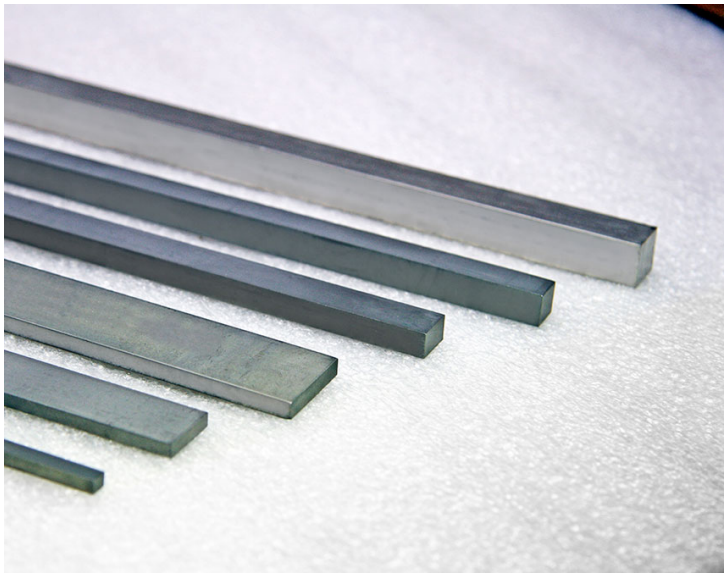
Carbide Grade ,Properties and Application

ISOstandard 国际标准	性能Properties				Application应用
	China Grade 中国牌号	Density (g/cm3) 密度	Intensity (N/mm2) 抗弯强度	Hardness(HRA)硬度	
K05	YG6A	14.9	>=1600	<=92.0	适合冷硬铸铁，合金铸铁，耐热钢，合金钢的加工。亦适合普通铸铁的加工. Applicable for machining of chilled cast irons,alloy cast iron,heat-resistant steels and alloy steels.It is also suitable for processing plain cast iron.
K10	YG6X	14.9	>=1800	>=91.5	
K20	YG6	14.9	>=1860	>=90.0	适合铸铁，有色金属，合金与非合金材料的精加工与半精加工，亦用于钢，有色金属线材的拉伸，地质用电钻，钢钻钻头等。Applicable for finishing and semi-finishing of materials of non-ferrous metal, alloy and others.It is also suitable for drawing wire of steel and non-ferrous metal and for producing geological geological electric drill,bit of steel drill and so on
K25	YL10.2	14.5	>=2200	>=91.5	具有很好的耐磨性和抗弯强度，主要用于生产挤压棒材，制造小微直径钻头，钟表加工用刀具，整体铰刀等其他刀具和耐磨零件。It has great wear out resisting and flexural strength.Applicable for producing extrusion bar,micro bit with small diameter, cutting tools for processing clocks and watches, other cutting tools like solid reamer and wear-resistant parts.
K30	YG8	14.7	>=2060	>=89.5	适合铸铁，有色金属，合金与非合金材料的粗加工，钢及有色金属，管材的拉伸，地质用各种钻头，机器制造用工具及易磨损零件。Applicable for rough machining of cast iron, non-ferrous metal and nonmetallic materiials.Being used for stretching steel, non-ferrous metal and pipes. Also It is suitable for producing quick-earing parts and tools for fabricating various geological bits and machines.
K35	YG10X	14.6	>=1780	>=89.5	适合制造细径微钻，立铣刀，旋转锉刀Applicable for producing micro bit with small diameter,solid end mill and carbide burr,etc.
K40	YG11	14.4	>=2260	>=87.5	适用于各种金属及非金属粉末模压及冲压。 Applicable for molding and punching all kinds of metal and monmetal powder
	YG11C	14.4	>=2350	>=87.0	适用于镶嵌制造重型凿岩机用的钻头：如深孔钻进，凿岩台车等用的钎头。Applicable for serving as drill heads of heavy gadder:such as drill bits for deep drilling,drilling-jumbo.

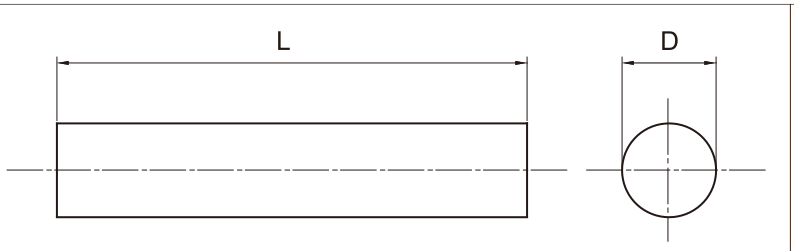


Carbide Grade ,Properties and Application

ISOstandard 国际标准	性能Properties				Application应用
	China Grade 中国牌号	Density (g/cm3) 密度	Intensity (N/mm2) 抗弯强度	Hardness(HRA)硬度	
	YG15	14	>=2420	<=86.5	适用于坚硬岩层凿岩，压缩率增大的钢棒，棺材拉伸，冲压工具，粉末冶金自动压机模具的柜芯。 Applicable for machining of chilled cast irons,alloy cast iron,heat-resistant steels and alloy steels.It is also suitable for processing plain cast iron.
	YG20	13.6	>=2580	>=85.0	适用于制作冲击力不大的模具：如冲压手表零件，电池壳，小螺帽等。 Applicable for making the mold which can only accept small impact force.e.g: stamping watch parts,battery case,machine-screw nut.
	YG20C	13.6	>=2480	>=82.5	适合标准件，轴承等制作作用的冷镦，冷冲，冷压模具的制作。 Applicable for making cold punching,heading and cold stamping dies which is used for making standards and bearings or others.
P10	YT15	11.35	>=1180	>=91.0	适用于碳素钢和合金钢连续加工时的粗加工和半精加工，精加工.Applicable for rough finishing,semi-finishing or finishing during continuous processing in carbon steel and alloy steel
P20	YT14	11.5	>=1270	>=90.5	适用于碳素钢和合金钢连续加工时的粗加工,间接切削时的半精加工。 Applicable for roughing of uneven surface of carbon steel and alloy steel, semi-processing of intermittent cutting.
P30	YT5	12.85	>=1430	>=89.5	适合于碳素钢和合金钢不平整面的粗加工，间接切削时的半精加工。 Applicable for rough machining of uneven surface of carbon steel and alloy steel and for semi-processing of intermittent cutting.
M10	YW1	13.1	>=1180	>=91.5	适用耐热钢，高锰钢及普通钢的铸铁的加工。 Applicable for processing cast iron of heat-resistant steel,high manganese steel and ordinary steel.
M20	YW2	13.1	>=1460	>=90.5	耐磨性稍次于YW1合金，但强度较高，能承受较大的冲击负荷，适用于耐热钢，高猛钢，不锈钢及高级合金钢等难加工钢材的半精加工，也适用于一般钢材和普通铸铁及有色金属的半精加工。Wearability is slightly lower than that of YW1 alloy, but it is of higher strength, and also can bear greater impact load. It is applicable for semi-finishing of alloy steels with higher toughness, such as heat-resistant steel, high manganese steel, stainless steel and advanced alloy.

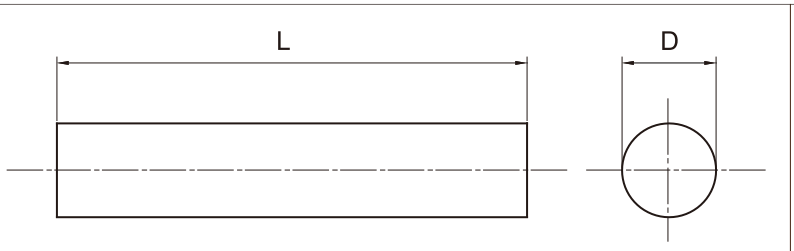


ROD blank(Metric) 实心圆棒（公制）



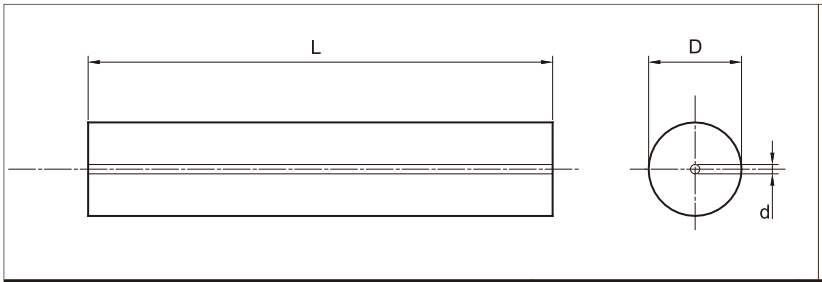
D rough Rod		D Grinding rod	L	D rough rod		D Grinding rod	L
外徑(mm)	公差 Tol. (mm)	h6 (mm)	公差 Tol.(+1.5mm)	外徑 (mm)	公差 Tol. (mm)	h6 (mm)	公差 Tol.(+1.5mm)
2.2	+0.2	2.0	330	18.2	+0.4	18.0	330
2.7	+0.2	-	330	18.7	+0.4	-	330
3.2	+0.2	3.0	330	19.2	+0.4	19.0	330
3.7	+0.2	-	330	19.7	+0.4	-	330
4.2	+0.2	4.0	330	20.2	+0.5	20.0	330
4.7	+0.2	-	330	20.7	+0.5	-	330
5.2	+0.2	5.0	330	21.2	+0.5	21.0	330
5.7	+0.2	-	330	21.7	+0.5	-	330
6.2	+0.2	6.0	330	22.2	+0.5	22.0	330
6.7	+0.2	-	330	22.7	+0.5	-	330
7.2	+0.2	7.0	330	23.2	+0.5	23.0	330
7.7	+0.3	-	330	23.7	+0.5	-	330
8.2	+0.3	8.0	330	24.2	+0.5	24.0	330
8.7	+0.3	-	330	24.7	+0.5	-	330
9.2	+0.3	9.0	330	25.2	+0.5	25.0	330
9.7	+0.3	-	330	26.2	+0.5	26.0	330
10.2	+0.3	10.0	330	27.2	+0.5	27.0	330
10.7	+0.3	-	330	28.2	+0.5	28.0	330
11.2	+0.3	11.0	330	29.2	+0.5	29.0	330
11.7	+0.3	-	330	30.2	+0.5	30.0	330
12.2	+0.3	12.0	330	31.2	+0.5	31.0	330
12.7	+0.3	-	330	32.2	+0.5	32.0	330
13.2	+0.3	13.0	330	33.2	+0.5	33.0	330
13.7	+0.3	-	330	34.2	+0.5	34.0	330
14.2	+0.3	14.0	330	35.2	+0.7	35.0	330
14.7	+0.3	-	330	36.2	+0.7	36.0	330
15.2	+0.3	15.0	330	37.2	+0.7	37.0	330
15.7	+0.3	-	330	38.2	+0.7	38.0	330
16.2	+0.4	16.0	330	39.2	+0.7	39.0	330
16.7	+0.4	-	330	40.2	+0.7	40.0	330
17.2	+0.4	17.0	330	41.2	+0.7	41.0	330
17.7	+0.4	-	330	42.2	+0.7	42.0	330

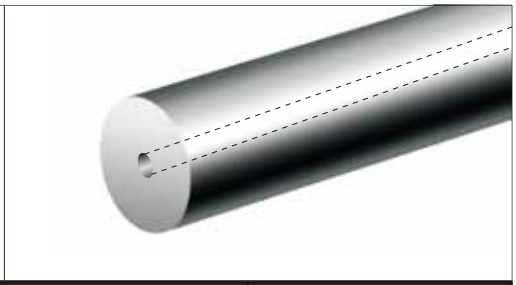
ROD blank(Inch) 实心圆棒(英制)



D 粗 坯 rough rod			D 研磨 Grinding rod	L 長 度 Length	
外徑 (Inch)	外徑 (mm)	公差 Tol. (mm)	h6 (mm)	公差 Tol. (+0.06")	公差 Tol.(+1.5mm)
1/16	1.8	+0.2	1.5875	13"	330
1/8	3.4	+0.2	3.1750	13"	330
3/16	5.0	+0.2	4.7625	13"	330
1/4	6.6	+0.3	6.3500	13"	330
5/16	8.2	+0.3	7.9375	13"	330
3/8	9.7	+0.3	9.5250	13"	330
7/16	11.3	+0.3	11.1125	13"	330
1/2	12.9	+0.3	12.7000	13"	330
9/16	14.5	+0.3	14.2875	13"	330
5/8	16.1	+0.4	15.8750	13"	330
11/16	17.7	+0.4	17.4625	13"	330
3/4	19.3	+0.4	19.0500	13"	330
13/16	20.9	+0.5	20.6375	13"	330
7/8	22.5	+0.5	22.2250	13"	330
15/16	24.2	+0.5	23.8125	13"	330
1	25.7	+0.5	25.4000	13"	330

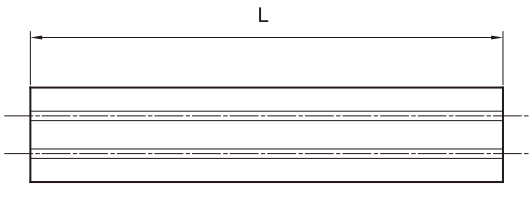
Carbide rod with Single hole(Metric) 单直孔圆棒（公制）

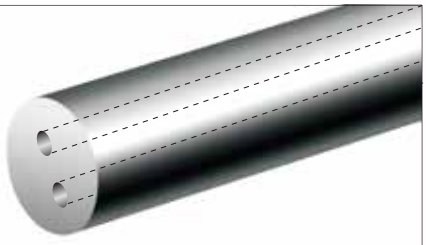




D 粗坯 rough rod		d內孔 single hole	D研磨 grinding rod	L長度 length
外徑(mm)	公差 Tol. (mm)	內徑d (mm)	h6 (mm)	公差 Tol. (+1.5mm)
2.2	+0.2	0.2~2.0	2.0	330
3.2	+0.2		3.0	330
4.2	+0.2		4.0	330
5.2	+0.2		5.0	330
6.2	+0.2		6.0	330
7.2	+0.2	0.2~3.0	7.0	330
8.2	+0.3		8.0	330
9.2	+0.3		9.0	330
10.2	+0.3	0.2~4.0	10.0	330
11.2	+0.3		11.0	330
12.2	+0.3		12.0	330
13.2	+0.3	0.4~6.0	13.0	330
14.2	+0.3		14.0	330
15.2	+0.3		15.0	330
16.2	+0.4		16.0	330
17.2	+0.4	0.5~7.0	17.0	330
18.2	+0.4		18.0	330
19.2	+0.4		19.0	330
20.2	+0.5		20.0	330
21.2	+0.5		21.0	330
22.2	+0.5		22.0	330
23.2	+0.5	0.8~9.5	23.0	330
24.2	+0.5		24.0	330
25.2	+0.5		25.0	330
26.2	+0.5		26.0	330
27.2	+0.5		27.0	330
28.2	+0.5		28.0	330
29.2	+0.5		29.0	330
30.2	+0.5		30.0	330
31.2	+0.5		31.0	330
32.2	+0.5		32.0	330

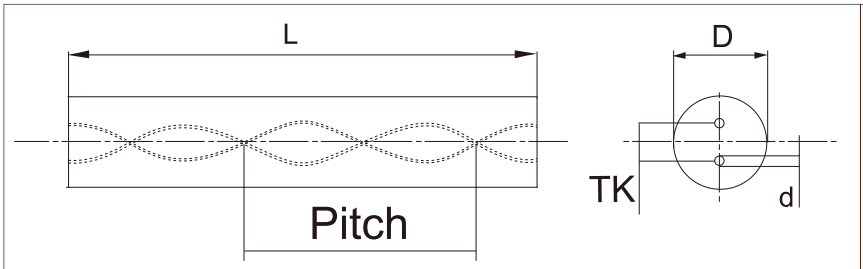
Carbide rod with two parallel hole(Metric) 双直孔圆棒（公制）

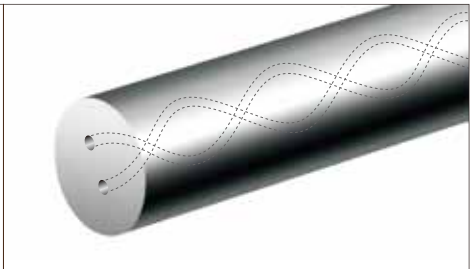




D 粗坯 rough rod		TK 孔距 holes distance		d內孔 hole Dia.		D 研磨 Grinding rod	L長度 length
外徑(mm)	公差 Tol. (mm)	孔距 TK (mm)	公差 Tol. (mm)	內徑 d (mm)	公差 Tol. (mm)	h6 (mm)	公差 Tol.(+1.5mm)
3.2	+0.3	1.5	±0.15	0.5	±0.1	3.0	330
4.2	+0.3	2.0	±0.2	0.6	±0.1	4.0	330
5.2	+0.3	2.6	±0.2	0.8	±0.1	5.0	330
6.2	+0.4	3.0	±0.2	0.9	±0.1	6.0	330
7.2	+0.4	3.2	±0.2	1.0	±0.15	7.0	330
8.2	+0.4	3.5	±0.2	1.2	±0.15	8.0	330
9.2	+0.4	3.7	±0.3	1.4	±0.15	9.0	330
10.2	+0.4	4.3	±0.3	1.6	±0.15	10.0	330
11.2	+0.4	4.8	±0.4	1.8	±0.15	11.0	330
12.2	+0.4	5.0	±0.4	1.8	±0.15	12.0	330
13.2	+0.4	5.5	±0.5	1.8	±0.25	13.0	330
14.2	+0.5	5.5	±0.5	1.8	±0.25	14.0	330
15.2	+0.5	5.5	±0.5	1.8	±0.25	15.0	330
16.2	+0.5	5.5	±0.5	1.8	±0.25	16.0	330
17.2	+0.5	6.0	±0.5	2.0	±0.25	17.0	330
18.2	+0.5	6.0	±0.5	2.0	±0.3	18.0	330
19.2	+0.5	6.0	±0.5	2.0	±0.3	19.0	330
20.2	+0.5	6.0	±0.5	2.0	±0.3	20.0	330

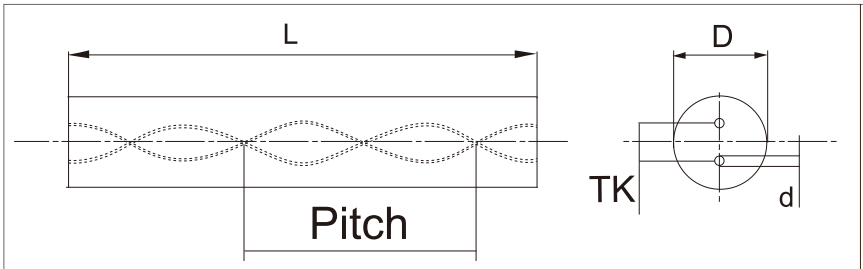
Carbide rod with two helical hole(Metric) 双螺旋圆棒（公制）

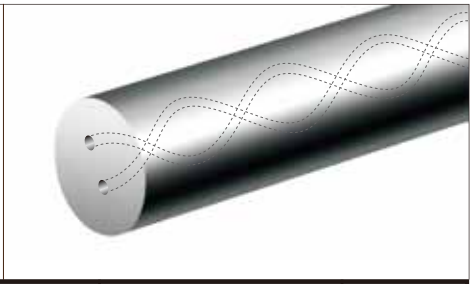




D finishing	D (Rough rod)		Diameter Range	TK hole distance		d 内孔 hole dia.		PL pitch		Spiral angle
成品 (mm)	粗胚 (mm)	公差 (mm)	成品 (mm)	孔距 TK (mm)	公差 (mm)	孔徑 d (mm)	公差 (mm)	螺距 (mm)	公差 (+1.5mm)	螺旋 (°)
3.0	3.3	+0.6/+0.2	2.45~3.0	1.2	±0.15	0.4	±0.10	16.32	+0.68/-0.64	30
		+0.6/+0.2	2.85~3.0	1.6	±0.15	0.4	±0.10	16.32	+0.68/-0.64	30
4.0	4.3	+0.6/+0.3	3.8~4.0	2.1	±0.15	0.6	±0.15	21.77	+0.90/-0.85	30
5.0	5.3	+0.6/+0.3	4.45~5.0	2.4	±0.20	0.7	±0.15	27.21	+1.13/-1.06	30
6.0	6.3	+1.0/+0.4	4.65~6.0	2.4	±0.20	0.7	±0.15	18.52	+1.00/-0.95	45.5
		+1.0/+0.4	3.65~6.0	1.7	±0.20	0.4	±0.15	20.40	+1.10/-1.04	42.73
		+1.0/+0.4	4.06~6.0	2.01	±0.20	0.5	±0.15	22.46	+1.23/-1.16	40
		+1.0/+0.4	4.65~6.0	2.4	±0.20	0.7	±0.15	24.03	+1.34/-1.25	38.1
		+1.3/+0.7	4.65~6.0	2.4	±0.20	0.7	±0.15	25.84	+1.22/-1.15	36.1
		+1.0/+0.4	4.55~6.0	2.25	±0.20	0.75	±0.15	27.20	+1.31/-1.23	34.7
		+1.3/+0.7	4.65~6.0	2.4	±0.20	0.7	±0.15	29.02	+1.14/-1.08	33
		+1.0/+0.4	3.55~6.0	1.6	±0.20	0.4	±0.15	32.65	+1.36/-1.28	30
		+1.0/+0.4	3.85~6.0	1.8	±0.20	0.5	±0.15	32.65	+1.36/-1.28	30
		+1.0/+0.4	4.25~6.0	2.1	±0.20	0.6	±0.15	32.65	+1.36/-1.28	30
		+1.0/+0.4	3.95~6.0	1.7	±0.20	0.7	±0.15	32.65	+1.36/-1.28	30
		+1.0/+0.4	4.5~6.0	2.25	±0.20	0.7	±0.15	32.65	+1.36/-1.28	30
		+1.0/+0.4	4.65~6.0	2.4	±0.20	0.7	±0.15	32.65	+1.36/-1.28	30
		+1.0/+0.4	4.95~6.0	2.7	±0.20	0.7	±0.15	32.65	+1.36/-1.28	30
		+1.0/+0.4	4.85~6.0	2.4	±0.20	0.9	±0.15	32.65	+1.36/-1.28	30
		+1.0/+0.4	4.85~6.0	2.6	±0.20	0.7	±0.15	70.30	+2.54/-2.38	15
6.7	7.1	+1.0/+0.4	6.19~6.7	3.5	±0.20	1.0	±0.15	36.46	+1.52/-1.43	30
7.0	7.3	+1.0/+0.4	6.25~7.0	3.5	±0.20	1.0	±0.15	38.09	+1.58/-1.49	30
8.0	8.3	+1.0/+0.4	5.0~8.0	2.4	±0.20	0.65	±0.15	29.95	+1.64/-1.54	40
		+1.0/+0.4	5.55~8.0	2.85	±0.20	0.75	±0.15	32.65	+1.83/-1.71	37.58
		+1.0/+0.4	5.35~8.0	2.8	±0.20	0.6	±0.15	43.53	+1.81/-1.70	30
		+1.0/+0.4	6.75~8.0	3.8	±0.20	1.0	±0.15	43.53	+1.81/-1.70	30
		+1.0/+0.4	6.95~8.0	3.6	±0.30	1.25	±0.15	93.80	+3.38/-3.17	15
8.7	9.1	+1.0/+0.4	8.09~8.7	4.5	±0.30	1.4	±0.15	47.34	+1.97/-1.85	30
9.0	9.3	+1.0/+0.4	5.95~9.0	3	±0.30	0.7	±0.15	33.70	+1.85/-1.74	40
		+1.0/+0.4	8.15~9.0	4.5	±0.30	1.4	±0.15	48.97	+2.04/-1.92	30
10.0	10.3	+1.0/+0.4	6.65~10.0	3.2	±0.30	1.0	±0.15	37.44	+2.06/-1.93	40
		+1.0/+0.4	7.25~10.0	3.8	±0.30	1.0	±0.15	43.53	+2.07/-1.94	35.8

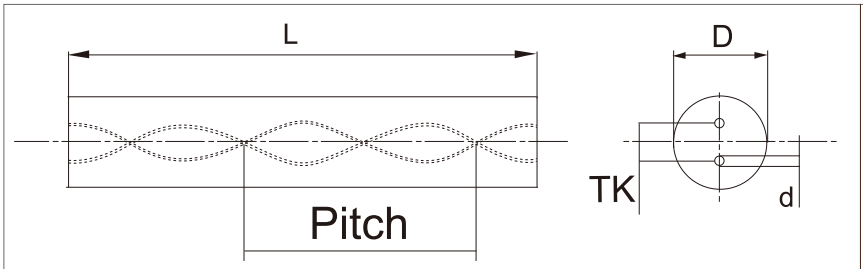
Carbide rod with two helical hole(Metric) （双螺旋圆棒(公制)）

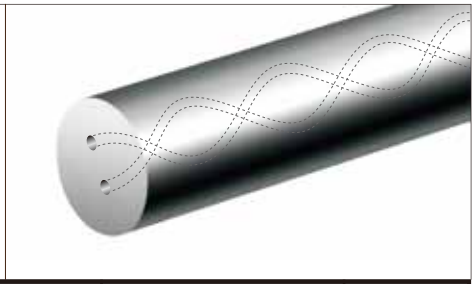




D finishing	D (Rough rod)		Diameter Range	TK holes distance		d 內孔 hole Dia		PL pitch		Spiral angle
成品 (mm)	粗胚 (mm)	公差 (mm)	成品 (mm)	孔距 TK (mm)	公差 (mm)	孔徑 d (mm)	公差 (mm)	螺距 (mm)	公差 (+1.5mm)	螺旋 (°)
10.0	10.3	+1.0/+0.4	7.65~10.0	4	±0.30	1.2	±0.15	47.34	+2.32/-2.17	33.57
		+1.0/+0.4	8.35~10.0	4.5	±0.30	1.4	±0.15	54.41	+2.26/-2.13	30
		+1.0/+0.4	8.7~10.0	4.8	±0.30	1.4	±0.15	117.20	+4.23/-3.96	15
10.7	11.1	+1.0/+0.4	9.0~10.7	4.9	±0.40	1.4	±0.15	58.22	+2.42/-2.28	30
11.0	11.3	+1.0/+0.4	9.05~11.0	4.9	±0.40	1.4	±0.15	59.86	+2.49/-2.34	30
12.0	12.3	+1.1/+0.3	8.0~12.0	3.8	±0.40	1.2	±0.15	44.93	+2.47/-2.32	40
		+1.1/+0.3	10.2~12.0	5.85	±0.40	1.4	±0.15	65.30	+2.71/-2.55	30
		+1.0/+0.4	10.8~12.0	6.25	±0.40	1.55	±0.15	140.70	+5.08/-4.76	15
12.7	13.1	+1.1/+0.3	11.0~12.7	6.1	±0.40	1.75	±0.20	69.11	+2.87/-2.70	30
13.0	13.3	+1.1/+0.3	11.3~13.0	6.1	±0.40	1.4/1.75/2.0	±0.20	70.74	+2.94/-2.77	30
14.0	14.3	+1.2/+0.4	8.9~14.0	4.3	±0.40	1.2	±0.20	52.42	+2.88/-2.70	40
		+1.0/+0.4	10.3~14.0	5.6	±0.40	1.3	±0.20	69.11	+2.74/-2.59	32.47
		+1.2/+0.4	12.1~14.0	6.7	±0.40	1.4/1.75/2.0	±0.20	76.18	+3.17/-2.98	30
		+1.0/+0.4	12.1~14.0	6.7	±0.40	1.4/1.75/1.9/2.0	±0.20	164.10	+5.92/-5.55	15
14.6	15	+1.2/+0.4	12.82~14.6	7.3	±0.40	1.4/1.75/2.0	±0.20	79.44	+3.30/-3.11	30
15.0	15.3	+1.2/+0.4	12.7~15.0	7.1	±0.40	1.4/1.75/2.0	±0.20	81.62	+3.39/-3.19	30
16.0	16.3	+1.3/+0.3	10.2~16.0	5.1	±0.40	1.3	±0.20	59.90	+3.29/-3.09	40
		+1.3/+0.3	14.2~16.0	7.9	±0.40	1.4/1.75/2.0/2.5	±0.20	87.06	+3.62/-3.41	30
		+1.0/+0.4	14.3~16.0	8	±0.40	1.4/1.75/2.0/2.1/2.5	±0.20	187.60	+6.77/-6.34	15
17.0	17.3	+1.4/+0.4	14.55~17.0	8	±0.40	1.4/1.75/2.0//2.5	±0.25	92.50	+3.85/-3.62	30
18.0	18.3	+1.4/+0.4	12.65~18.0	5.9	±0.40	1.4/1.75/2.0//2.5	±0.25	67.39	+3.70/-3.48	40
		+1.4/+0.4	15.4~18.0	9.15	±0.40	1.75/2.0/2.5	±0.25	97.95	+4.07/-3.83	30
		+1.0/+0.4	15.55~18.0	9	±0.40	2.0/2.3	±0.25	211.00	+7.61/-7.13	15
19.0	19.3	+1.4/+0.4	16.15~19.0	9.7	±0.40	1.4/1.75/2.0	±0.25	103.39	+4.30/-4.05	30
20.0	20.3	+1.4/+0.4	12.85~20.0	6.6	±0.50	1.5	±0.25	74.88	+4.11/-3.86	40
		+1.4/+0.4	17.15~20.0	9.9	±0.50	2.0/2.5/3.0	±0.25	108.83	+4.52/-4.26	30
		+1.0/+0.4	17.15~20.0	10	±0.40	2.0/2.5/3.0	±0.25	234.50	+8.46/-7.93	15
21.0	21.3	+1.4/+0.4	17.9~21.0	10.5	±0.50	2.0/2.5/3.0	±0.25	114.27	+4.75/-4.47	30
22.0	22.3	+1.4/+0.4	18.75~22.0	11.1	±0.50	2.0/2.5/3.0	±0.25	119.71	+4.98/-4.68	30
23.0	23.3	+1.4/+0.4	19.55~23.0	11.7	±0.50	2.0/2.5/3.0	±0.25	125.15	+5.20/-4.90	30
24.0	24.3	+1.4/+0.4	20.35~24.0	12.3	±0.50	1.4/2.0/2.5/3.0	±0.25	130.59	+5.43/-5.11	30
25.0	25.3	+1.4/+0.4	15.1~25.0	7.6	±0.50	1.5/1.75/2.0/2.5	±0.25	93.60	+5.14/-4.83	40

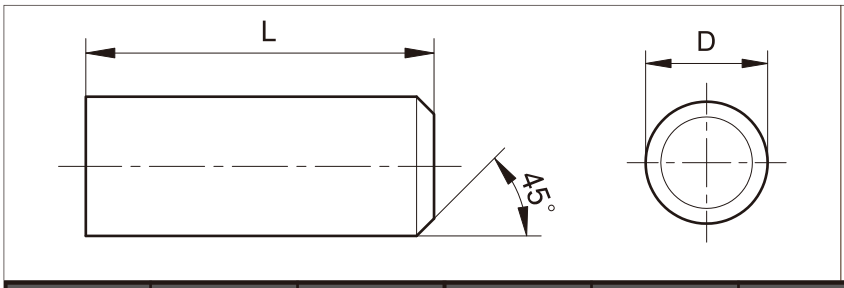
Carbide rod with two helical hole(Metric) 双螺旋圆棒(公制)





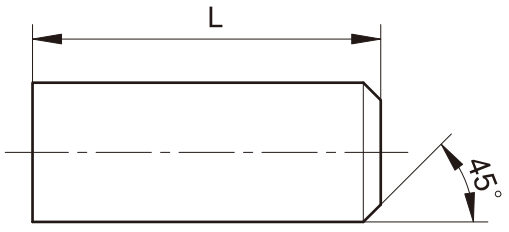
D finishing	D rough rod		Diameter Range	TK holes distance		d 內孔 hole Dia		PL Pitch		Spiral angle
成品 (mm)	粗胚 (mm)	公差 (mm)	成品 (mm)	孔距 TK (mm)	公差 (mm)	孔徑 d (mm)	公差 (mm)	螺距 (mm)	公差 (+1.5mm)	螺旋 (°)
25.0	25.3	+1.4/+0.4	16.05~25.0	12.8	±0.50	1.75/2.0/2.5/3.0	±0.25	136.03	+5.65/-5.32	30
27.0	27.3	+1.4/+0.4	22.35~27.0	13.7	±0.50	2.0/2.5/3.0	±0.25	146.92	+6.11/-5.75	30
28.0	28.3	+1.4/+0.4	22.95~28.0	14.1	±0.50	2.0/2.5/3.0	±0.25	152.36	+6.33/-5.96	30

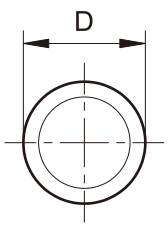
Carbide rod with chamfer DIN6527 倒角圆棒



D	L	chamfer	D	L	chamfer	D	L	chamfer
h6 (mm)	(mm)	(mm)	h6 (mm)	(mm)	(mm)	h6 (mm)	(mm)	(mm)
2.0	32	0.30	7.0	62	0.60	12.0	84	0.80
2.5	32	0.30	7.5	62	0.60	12.0	101	0.80
3.0	32	0.30	7.5	65	0.60	12.0	151	0.80
3.0	38	0.30	8.0	44	0.60	13.0	77	0.80
3.0	39	0.30	8.0	56	0.60	13.0	85	0.80
3.0	47	0.30	8.0	59	0.60	14.0	59	0.80
3.0	52	0.30	8.0	62	0.60	14.0	76	0.80
3.0	76	0.30	8.0	64	0.60	14.0	84	0.80
3.5	32	0.30	8.0	76	0.60	14.0	151	0.80
4.0	32	0.40	8.0	101	0.60	15.0	77	0.80
4.0	40	0.40	8.5	62	0.60	15.0	94	0.80
4.0	51	0.40	8.5	69	0.60	16.0	63	0.80
4.0	59	0.40	9.0	62	0.60	16.0	75	0.80
4.0	63	0.40	9.0	69	0.60	16.0	77	0.80
4.0	67	0.40	9.5	72	0.60	16.0	83	0.80
4.0	76	0.40	9.5	74	0.60	16.0	93	0.80
4.5	51	0.40	10.0	49	0.60	16.0	151	0.80
5.0	51	0.40	10.0	51	0.60	18.0	85	1.00
5.0	76	0.40	10.0	56	0.60	18.0	93	1.00
5.5	51	0.40	10.0	67	0.60	18.0	101	1.00
5.5	58	0.40	10.0	71	0.60	18.0	151	1.00
6.0	37	0.60	10.0	73	0.60	20.0	76	1.00
6.0	39	0.60	10.0	77	0.60	20.0	93	1.00
6.0	40	0.60	10.0	101	0.60	20.0	100	1.00
6.0	46	0.60	11.0	72	0.80	20.0	102	1.00
6.0	51	0.60	11.0	85	0.80	20.0	105	1.00
6.0	55	0.60	12.0	56	0.80	20.0	151	1.00
6.0	58	0.60	12.0	70	0.80	25.0	103	1.00
6.0	76	0.60	12.0	72	0.80	25.0	123	1.00
6.5	62	0.60	12.0	74	0.80	25.0	151	1.00

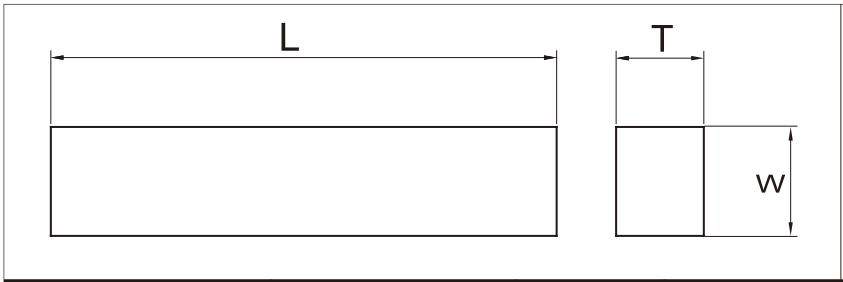
Carbide rod with chamfer (inch) 倒角圆棒(英制)

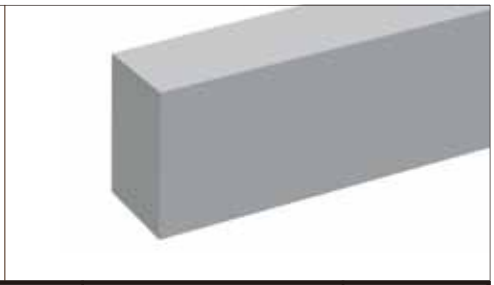




D 外 徑			L 長 度			Chamfer		D 外 徑			L 長 度			Chamfer	
h6 (Inch)		h6 (mm)	L (Inch)		(mm)	(Inch)	(mm)	h6 (Inch)		h6 (mm)	L (Inch)		(mm)	(Inch)	(mm)
1/8	0.125	3.175	1 1/2	1.50	38.1	0.012	0.3	7/16	0.438	11.113	2 3/4	2.75	69.9	0.031	0.8
1/8	0.125	3.175	2	2.00	50.8	0.012	0.3	7/16	0.438	11.113	3	3.00	76.2	0.031	0.8
1/8	0.125	3.175	2 1/4	2.25	57.2	0.012	0.3	7/16	0.438	11.113	4	4.00	101.6	0.031	0.8
1/8	0.125	3.175	2 1/2	2.50	63.5	0.012	0.3	7/16	0.438	11.113	6	6.00	152.4	0.031	0.8
1/8	0.125	3.175	3	3.00	76.2	0.012	0.3	1/2	0.500	12.700	2 1/2	2.50	63.5	0.031	0.8
1/8	0.125	3.175	4	4.00	101.6	0.012	0.3	1/2	0.500	12.700	3	3.00	76.2	0.031	0.8
3/16	0.188	4.763	1 1/2	1.50	38.1	0.016	0.4	1/2	0.500	12.700	3 1/2	3.50	88.9	0.031	0.8
3/16	0.188	4.763	2	2.00	50.8	0.016	0.4	1/2	0.500	12.700	4	4.00	101.6	0.031	0.8
3/16	0.188	4.763	2 1/2	2.50	63.5	0.016	0.4	1/2	0.500	12.700	5	5.00	127.0	0.031	0.8
3/16	0.188	4.763	3	3.00	76.2	0.016	0.4	1/2	0.500	12.700	6	6.00	152.4	0.031	0.8
3/16	0.188	4.763	4	4.00	101.6	0.016	0.4	9/16	0.563	14.288	3 1/2	3.50	88.9	0.031	0.8
1/4	0.250	6.350	1 1/2	1.50	38.1	0.024	0.6	9/16	0.563	14.288	4	4.00	101.6	0.031	0.8
1/4	0.250	6.350	2	2.00	50.8	0.024	0.6	9/16	0.563	14.288	5	5.00	127.0	0.031	0.8
1/4	0.250	6.350	2 1/2	2.50	63.5	0.024	0.6	9/16	0.563	14.288	6	6.00	152.4	0.031	0.8
1/4	0.250	6.350	3	3.00	76.2	0.024	0.6	5/8	0.625	15.875	3	3.00	76.2	0.031	0.8
1/4	0.250	6.350	4	4.00	101.6	0.024	0.6	5/8	0.625	15.875	3 1/2	3.50	88.9	0.031	0.8
1/4	0.250	6.350	6	6.00	152.4	0.024	0.6	5/8	0.625	15.875	4	4.00	101.6	0.031	0.8
5/16	0.313	7.938	2	2.00	50.8	0.024	0.6	5/8	0.625	15.875	5	5.00	127.0	0.031	0.8
5/16	0.313	7.938	2 1/2	2.50	63.5	0.024	0.6	5/8	0.625	15.875	6	6.00	152.4	0.031	0.8
5/16	0.313	7.938	3	3.00	76.2	0.024	0.6	3/4	0.750	19.050	3	3.00	76.2	0.039	1.0
5/16	0.313	7.938	4	4.00	101.6	0.024	0.6	3/4	0.750	19.050	4	4.00	101.6	0.039	1.0
5/16	0.313	7.938	6	6.00	152.4	0.024	0.6	3/4	0.750	19.050	5	5.00	127.0	0.039	1.0
3/8	0.375	9.525	2	2.00	50.8	0.024	0.6	3/4	0.750	19.050	5 1/4	5.25	133.4	0.039	1.0
3/8	0.375	9.525	2 1/2	2.50	63.5	0.024	0.6	3/4	0.750	19.050	6	6.00	152.4	0.039	1.0
3/8	0.375	9.525	3	3.00	76.2	0.024	0.6	7/8	0.875	22.225	4	4.00	101.6	0.039	1.0
3/8	0.375	9.525	3 1/2	3.50	88.9	0.024	0.6	7/8	0.875	22.225	6	6.00	152.4	0.039	1.0
3/8	0.375	9.525	4	4.00	101.6	0.024	0.6	1	1.000	25.400	3	3.00	76.20	0.039	1.0
3/8	0.375	9.525	6	6.00	152.4	0.024	0.6	1	1.000	25.400	3 1/2	3.50	88.90	0.039	1.0
								1	1.000	25.400	4	4.00	101.60	0.039	1.0
								1	1.000	25.400	5	5.00	127.00	0.039	1.0
								1	1.000	25.400	6	6.00	152.40	0.039	1.0

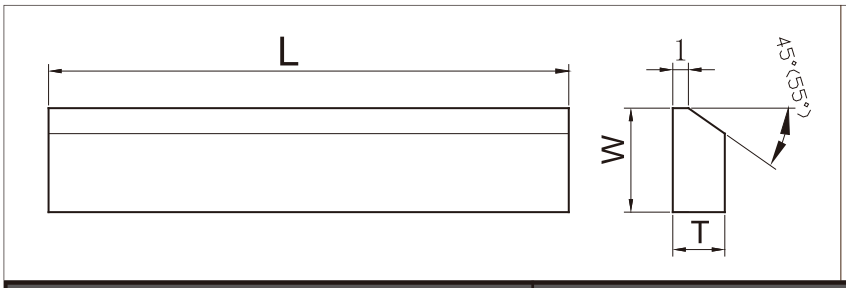
Strips Series

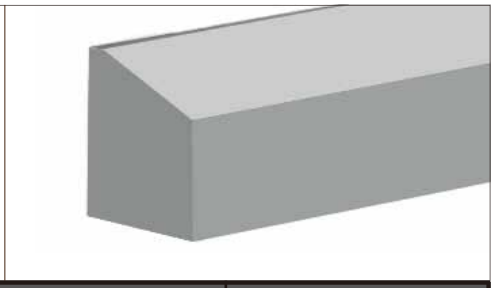




T 厚 度		W 寬度		L 長度	T 厚 度		W 寬度		L 長度
成品(mm)	公差(mm)	成品(mm)	公差(mm)	(mm)	成品(mm)	公差(mm)	成品(mm)	公差(mm)	(mm)
2	+0.3/+0.1	3	+0.4/+0.2	310	3	+0.3/+0.1	15	+0.6/+0.2	310
2	+0.3/+0.1	4	+0.4/+0.2	310	3	+0.3/+0.1	16	+0.6/+0.2	310
2	+0.3/+0.1	5	+0.4/+0.2	310	3	+0.3/+0.1	18	+0.6/+0.2	310
2	+0.3/+0.1	6	+0.4/+0.2	310	3	+0.3/+0.1	20	+0.6/+0.2	310
2	+0.3/+0.1	8	+0.4/+0.2	310	3	+0.3/+0.1	22	+0.6/+0.2	310
2	+0.3/+0.1	10	+0.4/+0.2	310	3	+0.3/+0.1	25	+0.6/+0.2	310
2	+0.3/+0.1	12	+0.4/+0.2	310	3	+0.3/+0.1	28	+0.6/+0.2	310
2	+0.3/+0.1	14	+0.4/+0.2	310	3	+0.3/+0.1	31	+0.6/+0.2	310
2	+0.3/+0.1	15	+0.4/+0.2	310	4	+0.3/+0.1	5	+0.6/+0.2	310
2	+0.3/+0.1	16	+0.4/+0.2	310	4	+0.3/+0.1	6	+0.6/+0.2	310
2	+0.3/+0.1	18	+0.4/+0.2	310	4	+0.3/+0.1	8	+0.6/+0.2	310
2	+0.3/+0.1	19	+0.4/+0.2	310	4	+0.3/+0.1	10	+0.6/+0.2	310
3	+0.3/+0.1	3	+0.4/+0.2	310	4	+0.3/+0.1	12	+0.6/+0.2	310
3	+0.3/+0.1	4	+0.4/+0.2	310	4	+0.3/+0.1	13	+0.6/+0.2	310
3	+0.3/+0.1	5	+0.4/+0.2	310	4	+0.3/+0.1	15	+0.6/+0.2	310
3	+0.3/+0.1	6	+0.4/+0.2	310	4	+0.3/+0.1	16	+0.6/+0.2	310
3	+0.3/+0.1	8	+0.4/+0.2	310	4	+0.3/+0.1	18	+0.6/+0.2	310
3	+0.3/+0.1	9	+0.6/+0.2	310	4	+0.3/+0.1	20	+0.6/+0.2	310
3	+0.3/+0.1	10	+0.6/+0.2	310	4	+0.3/+0.1	22	+0.6/+0.2	310
3	+0.3/+0.1	11	+0.6/+0.2	310	4	+0.3/+0.1	25	+0.6/+0.2	310
3	+0.3/+0.1	12	+0.6/+0.2	310	4	+0.3/+0.1	30	+0.6/+0.2	310
3	+0.3/+0.1	13	+0.6/+0.2	310					

Rectangular slab with chamfer





T 厚 度		W 寬度		L 長度
成品 (mm)	公差 (mm)	成品 (mm)	公差 (mm)	(mm)
3	+0.3/+0.1	6	+0.4/+0.2	310
3	+0.3/+0.1	8	+0.4/+0.2	310
3	+0.3/+0.1	9	+0.4/+0.2	310
3	+0.3/+0.1	10	+0.4/+0.2	310
3	+0.3/+0.1	12	+0.4/+0.2	310
4	+0.3/+0.1	10	+0.4/+0.2	310
3	+0.4/+0.6	30	+1.2/+0.8	310

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