



赣州海盛硬质合金有限公司

Ganzhou Grand Sea Cemented Carbide Co.,Ltd



公司发展历程

Company development history

2001年

赣州市信达钨钼有限公司成立 炼钢钨条领军企业。

Ganzhou Sinda W&Mo established. The Leading W metal bar producer in the World.

2004年

赣州市海龙钨钼有限公司成立，即APT工厂建立，实现原料自主供应。

APT plant established. Improve the raw material supply stability.

2005年

赣州海盛钨钼有限公司成立即高性能粉末工厂成立，同年购入3个优质矿山确保原材料供应稳定。

High performance Powder plant start production, meanwhile 3 tungsten mines start operation which guranteed the raw materials supply.

2006年

江西海丰新材料有限公司成立，钨铁开始生产，布局铁合金行业

Ferro-tungsten plant set up. expand its business scale at Ferro-alloys industry.

2008年

海盛集团正式合并，钨产业链条搭建完毕。现已具备APT产能8000吨/年，钨条1000吨/年，碳化钨粉4000吨/年。

Grand Sea Group established. Completed the construction of tungsten industrial line. Annual capacity ability APT 8000t, Tungsten metal bar 1000t, Tungsten Carbide Powder 4000t.

2011年

海盛硬质合金工厂成立，具备1000吨高性能硬质合金产品生产能力，进一步完善产业链。

Grand Sea Cemented Carbide plant established with annual capacity of 1000t high-performance cemented carbide products. The integrated tungsten industry line completed.

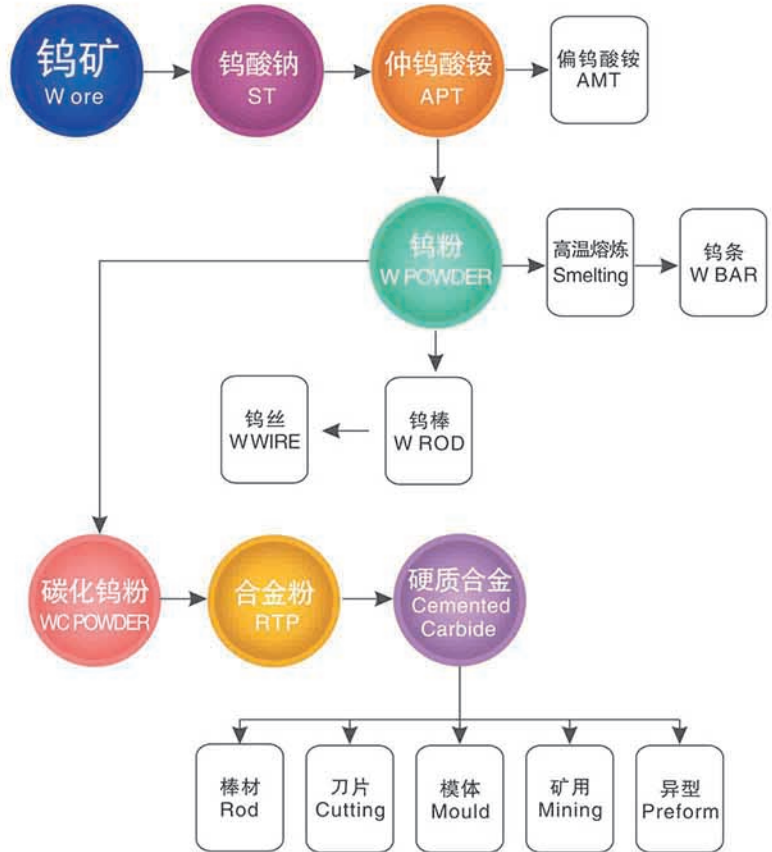
2015年

与日本京瓷株式会社合资成立京瓷精密工具（赣州）有限公司，向高精密和高附加值领域延伸。

Joint-venture of Kyocera and Grand Sea established a precision tool plant at Ganzhou, entered high-precision and high-value added area.

产业链

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Boring bar

生产设备

Production equipment



可倾式球磨机
Ball milling



喷雾塔
Spray dry



全自动压力机
Autopress



干式等静压机
Dry isostatic pressing



冷等静压机
Cold isostatic pressing



多气氛压力烧结炉
S-HIP furnace

公司产品

The major products

非标异型件

Pre-form production



棒材

Rods

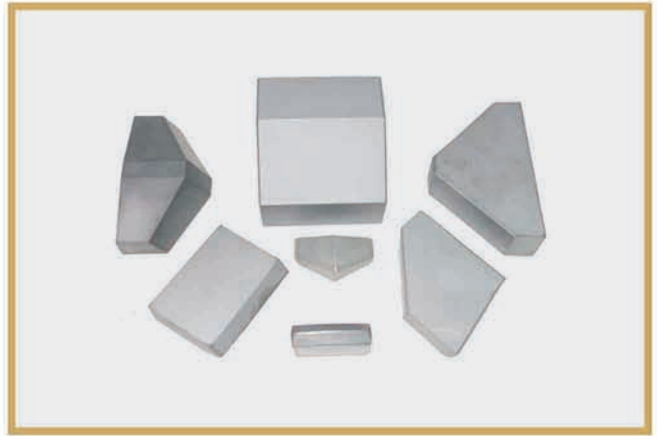


商品混合料

RTP powder

本公司可以提供特性表中标注的所有商品RTP粉末
We can provide all kinds of RTP powder in the specification table.

矿用工具 Mining tools



切削刀片 Cutting tips



模体材料 Die material



材质特性表

Grade specification table

整体刀具 (Solid tools)

材质名称 (Grade)	WC (%)	CO (%)	晶粒度 Grain size (μm)	比重 Density (g/cm^3) ± 0.1	硬度 Hardness (HRA) ± 0.5	断裂韧性 KIC ($\text{MNm}^{-3/2}$)	抗折力 TRS (kgf/mm^2)
H09U	91	9	0.3	14.5	93.7	9.2	>350
H12U-T	88	12	0.3	14.2	93.0	9.6	>350
H06U-T	94	6	0.4	14.9	94.5	8.4	>380
H06U	94	6	0.4	14.9	94.0	8.7	>380
H08U	92	8	0.4	14.7	93.6	8.8	>380
H08U-K	92	8	0.4	14.7	93.2	9.0	>380
H12U	88	12	0.4	14.3	92.5	9.4	>350
H10S	90	10	0.6	14.4	92.1	9.9	>350
H10F	90	10	0.8	14.4	91.8	10.9	>350

切削工具 (Cutting tips)

材质名称 (Grade)	WC (%)	CO (%)	晶粒度 Grain size (μm)	比重 Density (g/cm^3) ± 0.1	硬度 Hardness (HRA) ± 0.5	抗折力 TRS (kgf/mm^2)
HC2	94	6	1.0	14.95	92.0	>200
HC3	91	9	1.0	14.65	91.3	>240
HC4	92	8	1.0	14.70	92.0	>240
HC5	92	8	1.6	14.75	90.2	>240
HP10	-	6	1.2	11.30	92.5	>150
HP20	-	8	1.2	11.45	92.0	>170
HP30	-	9	2.0	12.95	90.3	>180
HM10	-	6	1.0	13.60	92.8	>170
HM20	-	8	1.2	13.40	92.0	>170

耐磨耐冲击工具 (Wear&Impact resistant tools)

材质名称 (Grade)	WC (%)	CO (%)	晶粒度 Grain size (um)	比重 Density (g/cm ³) ±0.1	硬度 Hardness (HRA) ±0.5	抗折力 TRS (kgf/mm ²)
HG3	92	8	1.2	14.75	90.5	>280
HG4	90	10	1.2	14.50	90.0	>280
HG5	88	12	1.2	14.30	89.0	>280
HG6	85.5	14.5	2.0	14.00	86.5	>300
HG7	83.4	16.6	1.6	13.75	85.5	>280
H12S	88	12	0.6	14.25	91.5	>350
HGF20	88.5	11.5	0.8	14.25	91.0	>320
HGF30	85	15	1.0	13.90	89.0	>320
HGF31	85	15	0.8	13.90	90.0	>320
HD9	75	25	2.0	13.10	82.5	>280
HD11	79	21	1.6	13.45	84.5	>280
HD12	76	24	2.0	13.15	83.0	>280

矿用工具 (Mining tools)

材质名称 (Grade)	WC (%)	CO (%)	晶粒度 Grain size (um)	比重 Density (g/cm ³) ±0.1	硬度 Hardness (HRA) ±0.5	抗折力 TRS (kgf/mm ²)
HE10	94	6	1.6	14.95	90.4	>300
HE15	94	6	2.0	14.95	89.6	>280
HE16	94	6	3.2	14.95	88.2	>270
HE20	92	8	3.2	14.75	87.8	>270
HE30	91	9	3.2	14.65	87.5	>260
HE35	89	11	3.2	14.40	86.8	>250
HE36	88	12	2.0	14.30	87.0	>280
HE40	87	13	3.2	14.20	85.5	>240
HE50	85	15	3.2	14.05	85.0	>230

棒材规格

Cemented carbide rods



整体刀具用牌号 (Grade for solid tools)

材质名称 (Grade)	WC (%)	CO (%)	晶粒度 Grain size (um)	比重 Density (g/cm ³) ±0.1	硬度 Hardness (HRA) ±0.5	断裂韧性 KIC (MNm-3/2)	抗折力 TRS (kgf/mm ²)
H09U	91	9	0.3	14.5	93.7	9.2	>350
H12U-T	88	12	0.3	14.2	93.0	9.6	>350
H06U-T	94	6	0.4	14.9	94.5	8.4	>380
H06U	94	6	0.4	14.9	94.0	8.7	>380
H08U	92	8	0.4	14.7	93.6	8.8	>380
H08U-K	92	8	0.4	14.7	93.2	9.0	>380
H12U	88	12	0.4	14.3	92.5	9.4	>350
H10S	90	10	0.6	14.4	92.1	9.9	>350
H10F	90	10	0.8	14.4	91.8	10.9	>350

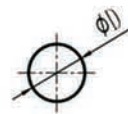
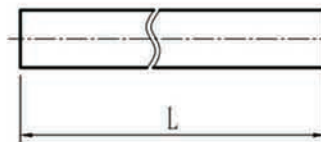
用途推荐 Applications

材质名称Grade	用途推荐 Applications								
Grade/Sort	H06U	H06U-T	H08U	H08U-K	H12U	H10S	H10F	H09U	H12U-T
碳素钢 Carbon steel						●	●		
回火钢 Tempered steel					●				●
淬火钢 Hardened steel	●	●		●				●	
不锈钢 Stainless steels	●	●			●		●		●
奥氏体不锈钢 Austenitic stainless steel						●			
灰口铸铁 Greycast iron						●			
耐热合金 Heat resistant alloys	●	●			●	●			●
钛合金 Titanium alloys			●	●	●			●	●
镍合金 Nickel alloys (Inconel)					●	●	●		●
铝合金 Aluminium alloys			●	●				●	
复合材料 Composite materials	●	●	●	●	●			●	●
碳纤维复合材料 CFRP	●	●	●	●	●			●	●
石墨 Graphite	●	●	●	●				●	
树脂材料 Resin			●						
木材 Wood			●	●				●	



毛坯棒材-长度330mm

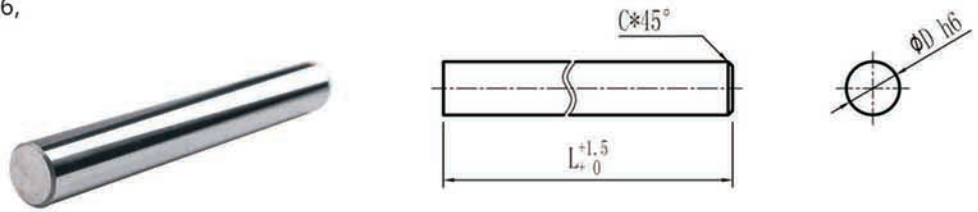
Unground rods-length 330mm



规格/Type	尺寸/Dimension			
	直径	公差	长度	公差
	ØD(mm)	Tol.(mm)	L(mm)	Tol.(mm)
Ø1*330	1.0	+0.30~+0.80	330	+0.3~+1.80
Ø2*330	2.0	+0.30~+0.80	330	+0.3~+1.80
Ø3*330	3.0	+0.30~+0.60	330	+0.3~+1.80
Ø4*330	4.0	+0.30~+0.60	330	+0.3~+1.80
Ø5*330	5.0	+0.30~+0.60	330	+0.3~+1.80
Ø6*330	6.0	+0.30~+0.60	330	+0.3~+1.80
Ø7*330	7.0	+0.30~+0.60	330	+0.3~+1.80
Ø8*330	8.0	+0.30~+0.60	330	+0.3~+1.80
Ø9*330	9.0	+0.30~+0.60	330	+0.3~+1.80
Ø10*330	10.0	+0.30~+0.60	330	+0.3~+1.80
Ø12*330	12.0	+0.30~+0.60	330	+0.3~+1.80
Ø14*330	14.0	+0.30~+0.60	330	+0.3~+1.80
Ø15*330	15.0	+0.30~+0.60	330	+0.3~+1.80
Ø16*330	16.0	+0.30~+0.80	330	+0.5~+2.50
Ø18*330	18.0	+0.30~+0.80	330	+0.5~+2.50
Ø20*330	20.0	+0.30~+0.80	330	+0.5~+2.50
Ø22*330	22.0	+0.30~+0.80	330	+0.5~+2.50
Ø24*330	24.0	+0.30~+0.80	330	+0.5~+2.50
Ø25*330	25.0	+0.60~+1.20	330	+0.5~+2.50
Ø26*330	26.0	+0.60~+1.20	330	+0.5~+2.50
Ø28*330	28.0	+0.60~+1.20	330	+0.5~+2.50
Ø30*330	30.0	+0.60~+1.20	330	+0.5~+2.50
Ø32*330	32.0	+0.60~+1.20	330	+0.5~+2.50
Ø34*330	34.0	+0.60~+1.20	330	+0.5~+2.50
Ø35*330	35.0	+0.60~+1.20	330	+0.5~+2.50
Ø36*330	36.0	+0.60~+1.20	330	+0.5~+2.50
Ø38*330	38.0	+0.60~+1.20	330	+0.5~+2.50
Ø40*330	40.0	+0.60~+1.20	330	+0.5~+2.50
Ø45*330	45.0	+0.60~+1.20	330	+0.5~+2.50
Ø50*330	50.0	+0.60~+1.20	330	+0.5~+2.50

精磨短棒h6带倒角

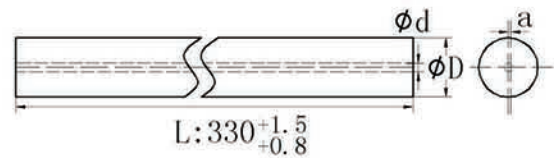
Milling cutting blanks ISO h6,
chamfered one end



规格/Type	尺寸/Dimension		
	直径	长度	倒角
	ØD(mm)	L(mm)	C(mm)
Ø 3 * 5 0	3.0	50	0.4
Ø 3 * 1 0 0	3.0	100	0.4
Ø 3 * 1 5 0	3.0	150	0.4
Ø 4 * 4 5	4.0	45	0.4
Ø 4 * 5 0	4.0	50	0.4
Ø 4 * 1 5 0	4.0	150	0.4
Ø 5 * 5 0	5.0	50	0.5
Ø 5 * 1 0 0	5.0	100	0.5
Ø 5 * 1 5 0	5.0	150	0.5
Ø 6 * 5 0	6.0	50	0.5
Ø 6 * 6 0	6.0	60	0.5
Ø 6 * 7 0	6.0	70	0.5
Ø 7 * 4 5	7.0	45	0.6
Ø 7 * 6 0	7.0	60	0.6
Ø 8 * 4 5	8.0	45	0.6
Ø 8 * 6 0	8.0	60	0.6
Ø 8 * 7 0	8.0	70	0.6
Ø 8 * 1 0 0	8.0	100	0.6
Ø 1 0 * 7 0	10.0	70	0.6
Ø 1 0 * 8 0	10.0	80	0.6
Ø 1 0 * 9 0	10.0	90	0.6
Ø 1 0 * 1 0 0	10.0	100	0.6
Ø 1 2 * 7 5	12.0	75	0.8
Ø 1 2 * 9 0	12.0	90	0.8
Ø 1 2 * 1 0 0	12.0	100	0.8
Ø 1 4 * 7 5	14.0	75	0.8
Ø 1 6 * 1 0 0	16.0	100	0.8
Ø 1 6 * 1 2 5	16.0	125	0.8
Ø 2 5 * 1 0 0	25.0	100	1.0
Ø 2 5 * 1 4 0	25.0	140	1.0
Ø 2 5 * 1 8 0	25.0	180	1.0

毛坯棒材-单冷孔

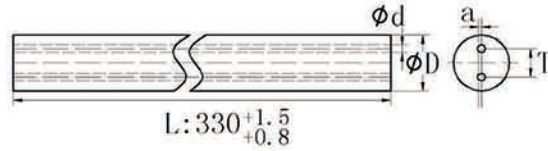
Unground rods-1 coolant hole



规格/Type	尺寸/Dimension				
	直径	公差	内冷却孔	公差	孔中心偏离
	$\phi D(\text{mm})$	Tol.(mm)	$\phi d(\text{mm})$	Tol.(mm)	a
$\phi 3 \times 330$	3.0	+0.40 ~ +0.60	0.80	± 0.10	0.10
$\phi 4 \times 330$	4.0	+0.40 ~ +0.60	0.80	± 0.10	0.10
$\phi 5 \times 330$	5.0	+0.40 ~ +0.60	0.80	± 0.10	0.13
$\phi 6 \times 330$	6.0	+0.40 ~ +0.65	1.00	± 0.15	0.15
$\phi 7 \times 330$	7.0	+0.40 ~ +0.65	1.00	± 0.15	0.15
$\phi 8 \times 330$	8.0	+0.40 ~ +0.65	1.00	± 0.15	0.15
$\phi 9 \times 330$	9.0	+0.40 ~ +0.65	1.40	± 0.15	0.20
$\phi 10 \times 330$	10.0	+0.40 ~ +0.65	1.40	± 0.15	0.20
$\phi 12 \times 330$	12.0	+0.40 ~ +0.65	1.75	± 0.15	0.30
$\phi 14 \times 330$	14.0	+0.40 ~ +0.70	1.75	± 0.15	0.37
$\phi 15 \times 330$	15.0	+0.40 ~ +0.70	2.00	± 0.20	0.40
$\phi 16 \times 330$	16.0	+0.40 ~ +0.70	2.00	± 0.20	0.40
$\phi 18 \times 330$	18.0	+0.40 ~ +0.80	2.00	± 0.20	0.50
$\phi 20 \times 330$	20.0	+0.40 ~ +0.80	2.50	± 0.25	0.50
$\phi 22 \times 330$	22.0	+0.30 ~ +0.80	2.50	± 0.25	0.50
$\phi 24 \times 330$	24.0	+0.30 ~ +0.80	3.00	± 0.25	0.50
$\phi 25 \times 330$	25.0	+0.60 ~ +1.20	3.00	± 0.25	0.50
$\phi 26 \times 330$	26.0	+0.60 ~ +1.20	3.00	± 0.25	0.50
$\phi 28 \times 330$	28.0	+0.60 ~ +1.20	3.00	± 0.25	0.50
$\phi 30 \times 330$	30.0	+0.60 ~ +1.20	3.00	± 0.25	0.50

毛坯棒材-双冷孔

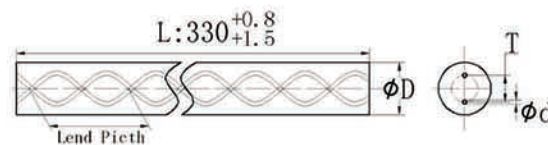
Unground rods-2 coolant hole



规格/Type	尺寸/Dimension						
	直径	公差	内冷却孔	公差	孔间距	公差	孔中心偏离
	$\phi D(\text{mm})$	Tol.(mm)	$\phi d(\text{mm})$	Tol.(mm)	T(mm)	Tol.(mm)	a
$\phi 4 \times 330$	4.0	+0.40~+0.60	0.80	± 0.10	1.80	-0.15	0.10
$\phi 5 \times 330$	5.0	+0.40~+0.60	0.80	± 0.10	2.00	-0.15	0.13
$\phi 6 \times 330$	6.0	+0.40~+0.65	1.00	± 0.15	3.00	-0.20	0.15
$\phi 8 \times 330$	8.0	+0.40~+0.65	1.00	± 0.15	4.00	-0.30	0.15
$\phi 10 \times 330$	10.0	+0.40~+0.65	1.40	± 0.15	5.00	-0.30	0.20
$\phi 12 \times 330$	12.0	+0.40~+0.65	1.75	± 0.15	6.00	-0.30	0.30
$\phi 14 \times 330$	14.0	+0.40~+0.70	1.75	± 0.15	7.00	-0.30	0.37
$\phi 15 \times 330$	15.0	+0.40~+0.70	2.00	± 0.20	7.00	-0.30	0.40
$\phi 16 \times 330$	16.0	+0.40~+0.70	2.00	± 0.20	8.00	-0.30	0.40
$\phi 18 \times 330$	18.0	+0.40~+0.80	2.00	± 0.20	9.00	-0.30	0.50
$\phi 20 \times 330$	20.0	+0.40~+0.80	2.50	± 0.25	10.00	-0.40	0.50

毛坯棒材-双螺旋孔

Unground rods-2 spiral coolant hole (30°)

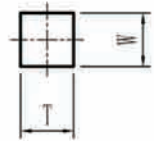
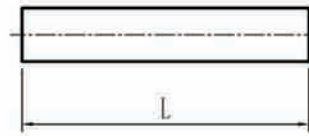


规格 Type	尺寸/Dimension							
	直径		孔径		孔间距		螺距	
	$\phi D(\text{mm})$	Tol.(mm)	$\phi d(\text{mm})$	Tol.(mm)	T(mm)	Tol.(mm)	Pitch(mm)	Tol.(mm)
$\phi 6 \times 330$	6.0	+0.60~+1.00	0.70	± 0.10	2.60	-0.4	32.70	± 0.85
$\phi 8 \times 330$	8.0	+0.70~+1.10	1.00	± 0.15	4.00	-0.4	43.53	± 1.05
$\phi 10 \times 330$	10.0	+0.70~+1.10	1.40	± 0.15	4.80	-0.6	54.41	± 1.25
$\phi 12 \times 330$	12.0	+0.70~+1.10	1.40	± 0.15	6.25	-0.6	65.30	± 1.45
$\phi 14 \times 330$	14.0	+0.70~+1.10	1.75	± 0.20	7.10	-0.8	76.18	± 1.65
$\phi 15 \times 330$	15.0	+0.70~+1.10	1.75	± 0.20	7.70	-0.8	81.62	± 1.75
$\phi 16 \times 330$	16.0	+0.70~+1.10	1.75	± 0.20	8.30	-0.8	87.06	± 1.85
$\phi 18 \times 330$	18.0	+0.70~+1.10	2.00	± 0.25	9.55	-0.8	97.95	± 2.15
$\phi 20 \times 330$	20.0	+0.70~+1.10	2.50	± 0.25	10.40	-1.0	108.83	± 2.45

板条规格

Cemented carbide strips

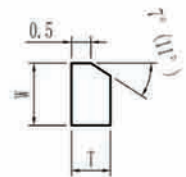
板条
strips



规格 Type	尺寸/Dimension					
	厚度	公差	宽度	公差	长度	公差
	T(mm)	Tol.(mm)	W(mm)	Tol.(mm)	L(mm)	Tol.(mm)
2*3*330	2.0	+0.10~+0.30	3.0	+0.20~+0.40	330	+0.10~+0.20
2*4*330	2.0	+0.10~+0.30	4.0	+0.20~+0.40	330	+0.10~+0.20
2*6*330	2.0	+0.10~+0.30	6.0	+0.20~+0.40	330	+0.10~+0.20
2*10*330	2.0	+0.10~+0.30	10.0	+0.20~+0.40	330	+0.10~+0.20
2*12*330	2.0	+0.10~+0.30	12.0	+0.20~+0.40	330	+0.10~+0.20
2*16*330	2.0	+0.10~+0.30	16.0	+0.20~+0.40	330	+0.10~+0.20
2*20*330	2.0	+0.10~+0.30	20.0	+0.20~+0.40	330	+0.10~+0.20
3*3*330	3.0	+0.10~+0.30	3.0	+0.20~+0.40	330	+0.10~+0.20
3*5*330	3.0	+0.10~+0.30	5.0	+0.20~+0.40	330	+0.10~+0.20
3*6*330	3.0	+0.10~+0.30	6.0	+0.20~+0.40	330	+0.10~+0.20
3*10*330	3.0	+0.10~+0.30	10.0	+0.20~+0.60	330	+0.10~+0.20
3*16*330	3.0	+0.10~+0.30	16.0	+0.20~+0.60	330	+0.10~+0.20
3*20*330	3.0	+0.10~+0.30	20.0	+0.20~+0.60	330	+0.10~+0.20
3*25*330	3.0	+0.10~+0.30	25.0	+0.20~+0.60	330	+0.10~+0.20
4*5*330	4.0	+0.10~+0.30	5.0	+0.20~+0.60	330	+0.10~+0.20
4*8*330	4.0	+0.10~+0.30	8.0	+0.20~+0.60	330	+0.10~+0.20
4*10*330	4.0	+0.10~+0.30	10.0	+0.20~+0.60	330	+0.10~+0.20
4*15*330	4.0	+0.10~+0.30	15.0	+0.20~+0.60	330	+0.10~+0.20
4*20*330	4.0	+0.10~+0.30	20.0	+0.20~+0.60	330	+0.10~+0.20
4*30*330	4.0	+0.10~+0.30	30.0	+0.20~+0.60	330	+0.10~+0.20

板条 (倒角)

strips (chamfered)



规格 type	尺寸/Dimension					
	厚度	公差	宽度	公差	长度	公差
	T(mm)	Tol.(mm)	W(mm)	Tol.(mm)	L(mm)	Tol.(mm)
2*3*330	2.0	+0.10~+0.30	3.0	+0.20~+0.40	330	+0.10~+2.0
3*5*330	3.0	+0.10~+0.30	5.0	+0.20~+0.40	330	+0.10~+2.0
3*8*330	3.0	+0.10~+0.30	8.0	+0.20~+0.40	330	+0.10~+2.0
3*10*330	3.0	+0.10~+0.30	10.0	+0.20~+0.40	330	+0.10~+2.0
3*12*330	3.0	+0.10~+0.30	12.0	+0.20~+0.40	330	+0.10~+2.0
4*8*330	4.0	+0.10~+0.30	8.0	+0.20~+0.40	330	+0.10~+2.0
4*10*330	4.0	+0.10~+0.30	10.0	+0.20~+0.40	330	+0.10~+2.0

冷锻模规格

Cold heading die

冷锻模用牌号

Grade for cold heading die

材料性能和适用范围

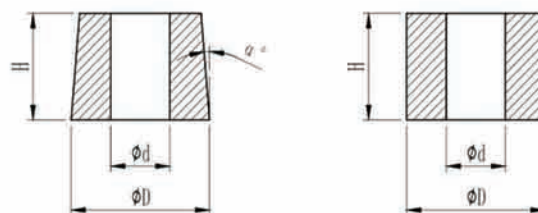
Materials properties and applications



牌号	钴含量	WC 晶粒度	硬度	密度	抗弯 强度	弹性 模量	冲击 韧性	适用范围
Grade	Co %	Grain Size of WC/um	Hardness HRA ±0.5	Density g/m ³ ±0.1	Flexural Strength Mpa	Elastic Modulus Gpa	Impact Toughness J/cm ²	Applications
HG6	15	2	86.5	13.95	3000	440	6.4	耐磨、耐冲击要求比较高的工程齿、冷锻模具。 Suitable for Engineering Teeth, Cold Forging Die, with High Wear and Impact Resistance.
HG7	18	2	85	13.75	2800	410	7.4	
HD9	24	2	82	13.10	2800	340	10	
HD11	21	2	84.5	13.45	2800	340	8.2	具有高韧性、耐冲击性、耐热冲击性等优点，适用于在对耐冲击性要求比较高的冷间锻造领域。
HD12	24	2	82.5	13.15	2800	340	10.4	Suitable for Strict Requirement Cold Forging Area, with High Toughness, Impact Resistance and Heat Resistance.

冷墩模

Cold heading die



尺寸公差

Size of tolerance

外径 Outside Diameter	牌号 Grade						
	HG6	HG7	HD7	HD8	HD9	HD11	HD12
	外径极限偏差				Deviation		
Ø10~Ø30	+0.3~+0.6			+0.3~+0.6			
Ø30~Ø50	+0.4~+0.7			+0.4~+0.8			
Ø50~Ø70	+0.4~+0.8			+0.4~+1.0			

内径 Inner Diameter	牌号 Grade						
	HG6	HG7	HD7	HD8	HD9	HD11	HD12
	内径极限偏差				Deviation		
Ø1~Ø10	-0.2~-0.4			-0.2~-0.4			
Ø10~Ø20	-0.3~-0.8			-0.3~-0.8			
Ø20~Ø30	-0.5~-1.0			-0.8~-1.2			
Ø30~Ø40	-0.8~-1.5			-1.2~-1.5			
Ø40	-1.0			-1.2			

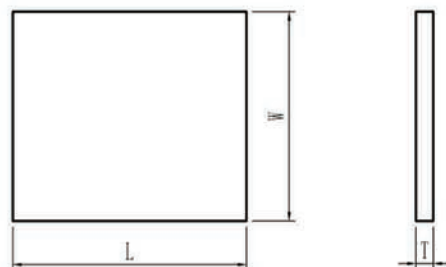
高度 Height	牌号 Grade						
	HG6	HG7	HD7	HD8	HD9	HD11	HD12
	高度极限偏差				Deviation		
10~35	+0.6~+1.0			+0.6~+1.0			
35~45	+0.8~+1.2			+0.8~+1.5			
45~55	+1.0~+1.5			+1.0~+1.5			
55~65	+1.2~+1.8			+1.2~+1.8			

模体板材规格

Plates

模体板材

Plates



标准产品

Standard products

规格 Specifications	公差Tol.(mm)			精坯Grounds
	毛坯 Blanks			
	T	L	W	
1×100×100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
2×100×100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
4×100×100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
5×100×100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
6×100×100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
8×100×100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
10×100×100	+0.5~+1.5	+0~+2.0	+0~+2.0	±0.01
15×100×100	+1.0~2.5	+0~+2.0	+0~+2.0	±0.01
20×100×100	+1.0~2.5	+0~+2.0	+0~+2.0	±0.01
26×100×100	+1.0~2.5	+0~+2.0	+0~+2.0	±0.01
30×100×100	+1.0~2.5	+0~+2.0	+0~+2.0	±0.01
40×100×100	+1.0~2.5	+0~+2.0	+0~+2.0	±0.01
50×100×100	+1.0~2.5	+0~+2.0	+0~+2.0	±0.01
60×100×100	+1.0~+3.0	+0~+2.0	+0~+2.0	±0.01
70×100×100	+1.0~+3.0	+0~+2.0	+0~+2.0	±0.01
75×100×100	+1.0~+3.0	+0~+2.0	+0~+2.0	±0.01

非标准产品

Non standard products

规格 Specifications	公差Tol.(mm)			精坯Grounds
	毛坯 Blanks			
	T	L	W	
H (5.0~45) ×100×50	参照上表公差 Tolerances as per standard products	±0~+2.0	±0~+2.0	±0.01
H (5.0~45) ×120×120		±0~+3.0	±0~+3.0	±0.01
H (5.0~60) ×150×150		±0~+4.0	±0~+4.0	±0.01
H (5.0~75) ×180×180		±0~+5.0	±0~+5.0	±0.02
H (5.0~65) ×200×200		±0~+5.0	±0~+5.0	±0.02

预成型件

Pre-form production

烧结螺纹孔

Sintered thread holes



烧结螺纹孔内外螺纹加工范围：M3~M14

Female & male screw : M3 ~M14

其他预成型件

Other pre-form production

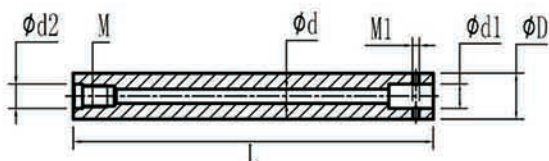


抗震刀杆

Boring bar

尺寸公差 Size of tolerance

规格 Specifications	尺寸/Dimension								
	直径		孔径		沉孔直径		长度		螺纹
	ØD(mm)	Tol.(mm)	ØD(mm)	Tol.(mm)	ØD2(mm)	Tol.(mm)	L(mm)	Tol.(mm)	M
Ø8	8.0	+0.40~+1.00	2.0	±2.0	4.5	-0.30~0.70	100	+0.60~+1.20	M4
Ø10	10.0	+0.40~+1.00	2.5	±2.0	5.5	-0.30~0.70	100~150	+0.60~+1.20	M5
Ø12	12.0	+0.40~+1.00	3.0	±2.0	6.5	-0.30~0.70	100~200	+0.60~+1.20	M6
Ø15	15.0	+0.60~+1.20	4.2	±2.0	8.5	-0.30~0.70	100~200	+0.80~+1.50	M8
Ø15.6	15.6	+0.60~+1.20	4.2	±2.0	8.5	-0.30~0.70	150~250	+0.80~+1.50	M8
Ø16	16.0	+0.60~+1.20	4.2	±2.0	8.5	-0.30~0.70	100~300	+0.80~+1.50	M8
Ø19	19.0	+0.80~+1.50	5.2	±2.0	10.5	-0.30~0.70	150~250	+1.00~1.80	M10
Ø20	20.0	+0.80~+1.50	5.2	±2.0	10.5	-0.30~0.70	100~300	+1.00~1.80	M10
Ø24	24.0	+1.00~+1.80	8.0	±3.0	12.5	-0.30~0.70	150~300	+1.20~+2.00	M12
Ø25	25.0	+1.00~+1.80	8.0	±3.0	12.5	-0.30~0.70	150~300	+1.20~+2.00	M12
Ø32	32.0	+1.20~+2.00	10.0	±3.0	17.0	-0.30~0.70	150~400	+1.50~2.20	M16





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