

Grand Sea Cemented Carbide long rod is the raw material of producing the alloy cutting tools such as end milling cutter, drill and reamer. These cutting tools are widely used for metal processing.

Types available are:

- ※ Tungsten carbide long rods diameter from 1mm-50mm, common length 300mm, 310mm and 330mm.
- ※ One coolant hole rods diameter from 3mm -30mm, length is 330mm
- ※ Two coolant holes rods diameter from 4mm -20mm, length is 330mm
- ※ Two spiral coolant hole with 30 degree, diameter from 6mm -20mm, length is 330mm

Length 330mm as example:

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

Grade Recommendation:

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

Application

材质名称Grade	用途推荐 Applications								
	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 (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			•	•				•	