Grand Sea Cemented Carbide Made Tungsten Cemented Carbide Rods Blank 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:

*Solid short Rods-Metric;
*Ground Rods with Chamfer-Metric;
*Ground Rods with Chamfer-DIN;
*Solid Long Rods-Metric;
*Ground Long Rods-Metric;
*Ground Rods with Chamfer-Inch;
*Rods with Central Coolant Hole;
*Rods with Two Straight Coolant Holes;
*Rods with 2 Helical Coolant Holes;

牌号一览表
Grade for Rod

牌号 (Grade)	WC/%	CO +其他 /%	晶粒度 Grain size (um)	密度 Density (g/cm^3)±0.1	硬度 Hardness (HRA) ±0.5	硬度 Hardness HV30	抗弯强度 /TRS (kgf/mm^2)	断裂韧性 KIC MNm-3/2	ISO 分类
H11F	89	11	1.0	14.3	91.3	1510	≥ 350	11.0	K20-K30
H10F	90	10	0.8	14.4	91.8	1580	≥ 380	10.8	K20-K40
H10S	90	10	0.6	14.4	92.1	1630	≥ 350	9.9	K20-K40
H12U	88	12	0.4	14.3	92.5	1690	≥ 350	9.4	K20-K40
H12U—T	88	12	0.3	14.3	93.0	1800	≥ 350	9.6	K20-K40
H08U—K	92	8	0.4	14.7	93.2	1900	≥ 350	9.0	K10-K20
H09U—T	91	9	0.3	14.5	94.0	2050	≥ 350	9.2	K05-K10
H06U	94	6	0.4	14.85	94.0	2050	≥ 380	8.7	K05-K10

牌号推荐
Grade Selection Guide

（●优先推荐、○次选）

被加工材料		刀具种类	H11F	H10F	H10S	H12U	H12U-T	H08U-K	H09U-T	H06U
P	钢	钻头		●	●					
		粗铣		●	●	○				
		精铣			○	●	○	○		
K	铸铁	钻头		●	●					
		粗铣		●	●					
		精铣			○			●		
H	高硬材料	钻头		○	●					
		粗铣			○	●	○			
		精铣				○	●	●	●	●
M	不锈钢	钻头		○	●					
		粗铣	●		●	○	○			
		精铣				○	●	●	●	
S	钛合金 高温合金	钻头			●					
		粗铣	●		●	○	○			
		精铣					○	●	●	
N	铝合金 铜合金	钻头		○	●			●	●	
		粗铣		○	○	○	○	●	●	
		精铣		○	○	○	○	●	●	
其他 (others)	复合材料 (工程树脂)	钻头			●			○	○	●
		粗铣						●	●	
		精铣						●	●	