

MG

DLC
CoatingSD
0-0.005R
±0.005R
±0.007

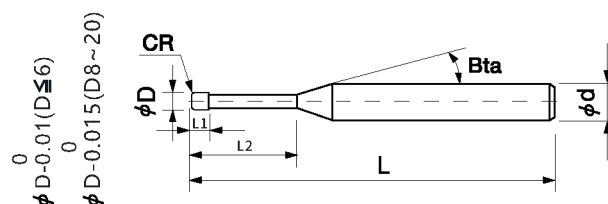
D ≤ 6

D8 ~ 12

Highly recommend ★ ○ ○
/Recommend/Suggest

Specialty

- * Ultra-fine micro-particles tungsten steel raw materials developed for tungsten copper;
- * The special flute design and coating achieve high surface finish and ultra-long life of tungsten copper material.



DIE STEEL	Grade
Carbon steels (S45C/S55C)	
Alloy steels (SK/SCM/SUS)	
Prehardened steels (NAK/HPM)	
Hardened steels (~55/~60/~70HRC)	
SPECIAL MATERIAL	
Aluminum alloys	
Graphite	
Copper	
Plastics	
Tungsten copper	★
Carbon fiber	
Titanium alloys	
Heat resistant alloys	
Cemented carbide	
Hard brittle (non-metallic) material	

Total 35 models

Unit (mm)

Model Number	D Outside Diameter	L1 Length of Cut	CR Corner Radius	Bta Shank Taper Angle	L Overall Length	T Number of Flutes	d Shank Diameter	In Stock
CGSR4-03002090-3	3	9	0.2	—	50	4	3	○
CGSR4-03002090	3	9	0.2	15°	50	4	4	○
CGSR4-03005090-3	3	9	0.5	15°	50	4	3	○
CGSR4-03005090	3	9	0.5	15°	50	4	4	○
CGSR4-04001120	4	12	0.1	—	50	4	4	○
CGSR4-04001120-75	4	12	0.1	—	75	4	4	○
CGSR4-04001120-100	4	12	0.1	—	100	4	4	○
CGSR4-04002120	4	12	0.2	—	50	4	4	○
CGSR4-04002120-75	4	12	0.2	—	75	4	4	○
CGSR4-04002120-100	4	12	0.2	—	100	4	4	○
CGSR4-04005120	4	12	0.5	—	50	4	4	○
CGSR4-04005120-75	4	12	0.5	—	75	4	4	○
CGSR4-04005120-100	4	12	0.5	—	100	4	4	○
CGSR4-06002160	6	16	0.2	—	60	4	6	○
CGSR4-06002160-75	6	16	0.2	—	75	4	6	○
CGSR4-06002160-100	6	16	0.2	—	100	4	6	○
CGSR4-06005160	6	16	0.5	—	50	4	6	○
CGSR4-06005160-75	6	16	0.5	—	75	4	6	○
CGSR4-06005160-100	6	16	0.5	—	100	4	6	○
CGSR4-08005200-75	8	20	0.5	—	75	4	8	○
CGSR4-08005000-100	8	20	0.5	—	100	4	8	○
CGSR4-08005200-150	8	20	0.5	—	150	4	8	○

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Total 35 models

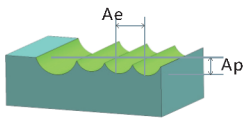
Unit (mm)

Model Number	D Outside Diameter	L1 Length of Cut	CR Corner Radius	Bta Shank Taper Angle	L Overall Length	T Number of Flutes	d Shank Diameter	In Stock
CGSR4-08010200-75	8	20	1	–	75	4	8	○
CGSR4-08010200-100	8	20	1	–	100	4	8	○
CGSR4-08010200-150	8	20	1	–	150	4	8	○
CGSR4-10005250-75	10	25	0.5	–	75	4	10	○
CGSR4-10005250-100	10	25	0.5	–	100	4	10	○
CGSR4-10005250-150	10	25	0.5	–	150	4	10	○
CGSR4-10010250-75	10	25	1	–	75	4	10	○
CGSR4-10010250-100	10	25	1	–	100	4	10	○
CGSR4-10010250-150	10	25	1	–	150	4	10	○
CGSR4-12005300-100	12	30	0.5	–	100	4	12	○
CGSR4-12005300-150	12	30	0.5	–	150	4	12	○
CGSR4-12010300-100	12	30	1	–	100	4	12	○
CGSR4-12010300-150	12	30	1	–	150	4	12	○

4 Flutes

*New size added from this series.

○ Stocked items.



Side Milling

Work Material	Tungsten Copper	
(mm) Diameter	(min-1) Speed	(mm/min) Feed
D3	11000	1800
D4	10000	2000
D6	9000	2400
D8	8000	2600
D10	7000	2600
D12	6500	2600

Radius

Note:

* Decrease both spindle speed and feed rate proportionally if overhang length exceeds 3xd;

* Decrease both spindle speed and feed rate proportionally when the milling parameters exceed the machine's maximum spindle speed.