



Size R0.2~R6

CGB2000



Material Applications (☆ Highly Recommended ○ Recommended ○ Suggested)

Work Material															
Carbon Steels S45C S55C	Alloy Steels SK / SCM SUS	Prehardened Steels NAK HPM	Hardened Steels			Cast Iron	Aluminum Alloys	Graphite	Copper	Plastics	Glass Filled Plastics	Titanium Alloys	Heat Resistant Alloys	Cemented Carbide	Hard Brittle (Non-Metallic) Materials
			~55HRC	~60HRC	~70HRC										
							○	☆	○	○	○				

Features

Designed for milling Graphite.
The grade of carbide specified offers excellent resistance to wear and abrasion.
Refer to page 252 for 4 flute CGB.

Total 15 models

Unit (mm)

Model Number	Radius of Ball Nose	Length of Cut	Overall Length	Shank Diameter	Price (¥)
CGB 2004	R0.2	0.8	60	4	11,000
CGB 2006	R0.3	1.2	60	4	11,000
CGB 2010	R0.5	5	60	4	11,000
CGB 2015	R0.75	5	60	4	11,000
CGB 2020	R1	10	70	4	12,700
CGB 2025	R1.25	10	70	4	12,700
CGB 2030	R1.5	15	80	4	15,600
CGB 2040	R2	20	100	4	18,600
CGB 2050	R2.5	20	100	5	18,900
CGB 2060	R3	30	150	6	21,420
CGB 2070	R3.5	30	150	6	24,050
CGB 2080	R4	40	150	8	27,170
CGB 2100	R5	50	180	10	35,420
CGB 2110	R5.5	50	180	10	38,060
CGB 2120	R6	55	200	12	41,470

Milling Conditions for CGB (2 Flutes)

WORK MATERIAL		GRAPHITE	
Model Number	Radius of Ball Nose (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)
2004	R0.2	15,000	60~90
2006	R0.3	15,000	90~130
2010	R0.5	15,000	150~220
2015	R0.75	15,000	240~360
2020	R1	15,000	300~450
2025	R1.25	15,000	550~800
2030	R1.5	15,000	900~1,350
2040	R2	15,000	900~1,350
2050	R2.5	15,000	1,200~1,800
2060	R3	15,000	1,500~2,200
2070	R3.5	9,100	1,500~2,200
2080	R4	8,000	1,500~2,200
2100	R5	6,500	1,500~2,200
2110	R5.5	6,000	1,500~2,200
2120	R6	5,300	1,500~2,200

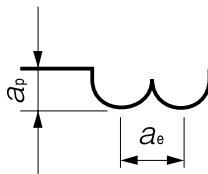
For Finishing

Milling Amount (mm)

$$a_e = 0.7D$$

$$a_p = 0.3D$$

D : Outside Diameter (mm)

 a_p : Axial Depth (mm) a_e : Radial Depth (mm) = P_f 

Note:

- Use a milling machine dedicated for Graphite.
- Recommend air blow for Graphite.

Square

Square
Long Neck
Square

Radius

Radius
Long Neck
RadiusBall / Long
Shank BallBall
Long Neck
BallTaper Neck
BallTaper
TaperSpiral
V CutterDrill
Thread Mill

EURO Series

Technical Data