



Size R2~R10

CGB4000



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 238 for 2 flute CGB.

Total 9 models

Unit (mm)

Model Number	Radius of Ball Nose	Length of Cut	Overall Length	Shank Diameter	Price (¥)
CGB 4040	R2	20	100	4	21,900
CGB 4050	R2.5	20	100	5	22,200
CGB 4060	R3	30	150	6	25,200
CGB 4070	R3.5	30	150	6	28,250
CGB 4080	R4	40	150	8	31,900
CGB 4100	R5	50	180	10	39,380
CGB 4120	R6	55	200	12	46,090
CGB 4160	R8	60	200	16	65,010
CGB 4200	R10	60	250	20	98,560

Milling Conditions for CGB (4 Flutes)

WORK MATERIAL		GRAPHITE	
Model Number	Radius of Ball Nose (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)
4040	R2	15,000	1,350~1,600
4050	R2.5	15,000	1,350~1,600
4060	R3	15,000	1,900~2,300
4070	R3.5	9,000	1,900~2,300
4080	R4	8,000	1,900~2,300
4100	R5	6,500	2,000~2,500
4120	R6	5,300	2,000~2,500
4160	R8	4,000	2,000~2,500
4200	R10	3,200	2,000~2,500

For Finishing

Milling Amount (mm)

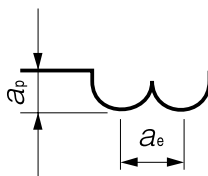
$$a_e = 0.7D$$

$$a_p = 0.3D$$

D : Outside Diameter (mm)

a_p : Axial Depth (mm)

a_e : Radial Depth (mm) = P_r



Note:

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

