



Size R1~R6

HFB Short Shank

Patented in Japan, China, Taiwan, Korea, Germany, Switzerland, and Liechtenstein

HFB-S

Super MG

HARD MAX

40°

R ±0.005
R1~R1.5

R ±0.007
R2~R3

R ±0.01
R4~R6

Shank Dia 0/-0.005

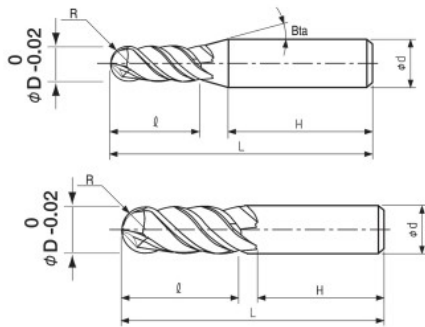
4 Flutes

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
			~50HRC	~55HRC	~60HRC	~65HRC	~70HRC										
			●	●	●	●	●										

Features

Compatible with shrink-fit toolholder systems for high efficiency.
A shorter overhang offers higher feed rates and precision.
Diameter Tolerance: 0/-0.02



The shank taper angle and the shank length (H) shown are not an exact value and to avoid contact with the work piece, we recommend the user controls the precise value of this angle. Shank taper angle should not make contact with the work piece.

Total 7 models

Unit (mm)

Model Number	Radius of Ball Nose R	Length of Cut ℓ	Shank Taper Angle Bta	Overall Length L	Shank Diameter φd	Shank Length H	Suggested Retail Price ¥
HFB 4020-0300S	R1	3	16°	40	4	31.0	6,720
HFB 4030-0450S	R1.5	4.5	16°	40	4	30.5	6,890
HFB 4040-0600S	R2	6	16°	45	6	32.5	6,890
HFB 4060-0900S	R3	9	—	50	6	34.5	8,610
HFB 4080-1200S	R4	12	—	60	8	40.5	12,300
HFB 4100-1500S	R5	15	—	60	10	35.5	16,320
HFB 4120-1800S	R6	18	—	60	12	31.5	20,660

- φ3mm Shank V Series
- UDC-PCD Series
- CBN Series
- Square
 - Square
 - Long Neck Square
- Radius
 - Radius
 - Long Neck Radius
 - Taper Neck Radius
- Ball / Long Shank Ball
 - Ball / Long Shank Ball
 - Long Neck Ball
 - Taper Neck Ball
- Taper
 - Taper
- Barrel
- Spiral V Cutter
- Drill
- Technical Data