

## Size R1~R6

















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

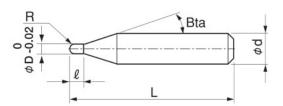
Material Applications (★ Highly Recommended ● Recommended ○ Suggested)

	Work Material															
Carbon Steels	Alloy Steels SK / SCM SUS	Prehardened Steels NAK HPM	Hardened Steels				Cast Iron A	Aluminum Alloys	Graphite	Copper	Plastics	Glass Filled	Titanium Alloys	Heat Resistant	Hard Brittle (Non-	
S45C S55C			~ 50HRC	∼ 55HRC	~ 60HRC	$\sim$ 65HRC	~ 70HRC						Plastics		Alloys	Metallic) Materials
			•	•	•	•	•									

## Features

Dramatically improved the milling efficiency. Maximum 27 times higher chip evacuation compared to conventional tool. New ball tip design offers polish-less bottom surface finishing. Affordable pricing.

Diameter Tolerance: 0/-0.02



The shank taper angle shown is 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 8 models Unit (mm)

Model Number	Radius of Ball Nose R	Length of Cut &	Shank Taper Angle Bta	Overall Length L	Shank Diameter Ød	Suggested Retail Price ¥
HFB 4020-0300	R1	3	16°	50	4	6,720
HFB 4020-0300-6	R1	3	16°	50	6	7,790
HFB 4030-0450	R1.5	4.5	16°	60	6	6,890
HFB 4040-0600	R2	6	16°	70	6	6,890
HFB 4060-0900	R3	9	_	80	6	8,610
HFB 4080-1200	R4	12	_	90	8	12,300
HFB 4100-1500	R5	15	_	100	10	16,320
HFB 4120-1800	R6	18	_	110	12	20,660

Square Square Long Neck Square

CBN Series

Long Neck Radius Radius
Taper Neck Radius

Ball / Long Shank Ball

Long Neck
Ball

Taper Neck
Ball

Barrel
Spiral
V Cutter

Drill

Technical Data

452