

4 Flutes / 6 Flutes HARDMAX



Size  $\phi 3 \sim \phi 12$

**HHRS**



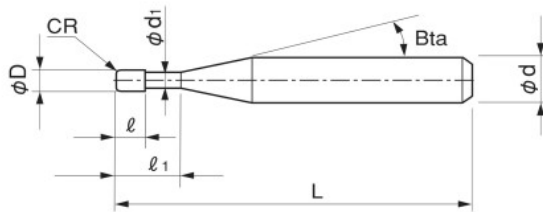
Additional 9 models

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**

Long Neck Radius design for milling on Hard Materials.  
The cutting edge is designed for offering high rigidity.



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 23 models

Unit (mm)

Model Number	Outside Diameter $\phi D$	Corner Radius CR	Effective Length $\ell_1$	Length of Cut $\ell$	Neck Diameter $\phi d_1$	Shank Taper Angle Bta	Overall Length L	Shank Diameter $\phi d$	Number of Flutes	Suggested Retail Price ¥
※ HHRS 4030-01-100	3	RO.1	10	3	2.95	11°	60	6	4	7,100
※ HHRS 4030-02-100		RO.2								7,100
※ HHRS 4030-05-100		RO.5								7,100
※ HHRS 4040-01-120	4	RO.1	12	4	3.95	11°	60	6	4	10,600
※ HHRS 4040-02-120		RO.2								10,600
※ HHRS 4040-05-120		RO.5								10,600
※ HHRS 4040-10-120		R1								10,600
※ HHRS 4050-02-160	5	RO.2	16	5	4.95	11°	60	6	4	14,000
※ HHRS 4050-05-160		RO.5								14,000
HHRS 6060-01-210	6	RO.1	21	6	5.95	—	60	6	6	16,800
HHRS 6060-02-210		RO.2								16,800
HHRS 6060-03-210		RO.3								16,800
HHRS 6060-05-210		RO.5								16,800
HHRS 6060-10-210		R1								16,800

※Additional model

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