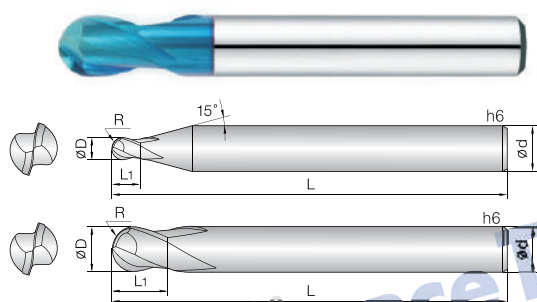


2 Flutes Hard Cut Short Length Ball End Mills for Hardened Steels



2HSB

- **Ball Endmills for various work materials (HRC 52~68) Pre-hardened steels and Hardened steels.**
- Good wear resistance by high quality Si-based H coating.
- High-Precise edge tolerance.
- Short overall length for easy use with Shrinking chuck.
- Good surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2µm) WC grade.



Unit(mm)

Model Number	Cutting Dia. D	Radius Of BN R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
2HSB 005 005 445	0.5	0.25R	0.5	-	45	4
2HSB 005 0075 445	0.5	0.25R	0.75	-	45	4
2HSB 006 006 445	0.6	0.3R	0.6	-	45	4
2HSB 006 009 445	0.6	0.3R	0.9	-	45	4
2HSB 007 007 445	0.7	0.35R	0.7	-	45	4
2HSB 007 010 445	0.7	0.35R	1	-	45	4
2HSB 008 008 445	0.8	0.4R	0.8	-	45	4
2HSB 008 012 445	0.8	0.4R	1.2	-	45	4
2HSB 009 009 445	0.9	0.45R	0.9	-	45	4
2HSB 009 013 445	0.9	0.45R	1.3	-	45	4
2HSB 010 010 445	1	0.5R	1	-	45	4
2HSB 010 010 650	1	0.5R	1	-	50	6
2HSB 010 015 445	1	0.5R	1.5	-	45	4
2HSB 010 015 650	1	0.5R	1.5	-	50	6
2HSB 012 012 445	1.2	0.6R	1.2	-	45	4
2HSB 015 015 445	1.5	0.75R	1.5	-	45	4
2HSB 015 015 650	1.5	0.75R	1.5	-	50	6
2HSB 015 023 445	1.5	0.75R	2.3	-	45	4
2HSB 015 023 650	1.5	0.75R	2.3	-	50	6
2HSB 020 020 445	2	1R	2	-	45	4
2HSB 020 020 650	2	1R	2	-	50	6
2HSB 020 030 445	2	1R	3	-	45	4
2HSB 020 030 650	2	1R	3	-	50	6
2HSB 025 025 650	2.5	1.25R	2.5	-	50	6
2HSB 030 030 445	3	1.5R	3	-	45	4
2HSB 030 030 650	3	1.5R	3	-	50	6

2 Flutes Hard Cut Short Length Ball End Mills for Hardened Steels



Unit(mm)

Model Number	Cutting Dia. D	Radius Of BN R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
2HSB 030 045 445	3	1.5R	4.5	-	45	4
2HSB 030 045 650	3	1.5R	4.5	-	50	6
2HSB 040 040 445	4	2R	4	-	45	4
2HSB 040 040 650	4	2R	4	-	50	6
2HSB 040 060 445	4	2R	6	-	45	4
2HSB 040 060 650	4	2R	6	-	50	6
2HSB 050 050 650	5	2.5R	5	-	50	6
2HSB 050 075 650	5	2.5R	7.5	-	50	6
2HSB 060 060 050	6	3R	6	-	50	6
2HSB 060 080 650	6	3R	8	-	50	6
2HSB 080 080 850	8	4R	8	-	50	8
2HSB 080 110 860	8	4R	11	-	60	8
2HSB 100 100 A60	10	5R	10	-	60	10
2HSB 100 130 A75	10	5R	13	-	75	10
2HSB 120 120 C60	12	6R	12	-	60	12
2HSB 120 150 C75	12	6R	15	-	75	12

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS