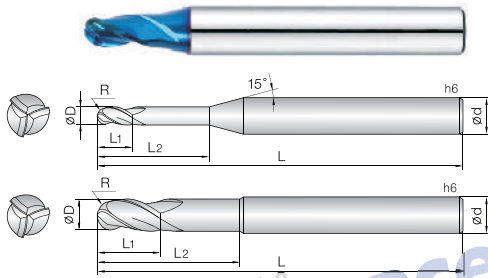


3 Flutes Hard Cut Rib Ball End Mills For Hardened Steels



3HRB

- 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.
- 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
3HRB 010 040 450	1	0.5R	1.2	4	50	4
3HRB 010 060 450	1	0.5R	1.2	6	50	4
3HRB 010 080 450	1	0.5R	1.2	8	50	4
3HRB 010 100 450	1	0.5R	1.2	10	50	4
3HRB 010 120 450	1	0.5R	1.2	12	50	4
3HRB 010 160 450	1	0.5R	1.2	16	50	4
3HRB 015 060 450	1.5	0.75R	1.8	6	50	4
3HRB 015 080 450	1.5	0.75R	1.8	8	50	4
3HRB 015 100 450	1.5	0.75R	1.8	10	50	4
3HRB 015 120 450	1.5	0.75R	1.8	12	50	4
3HRB 015 160 450	1.5	0.75R	1.8	16	50	4
3HRB 015 200 460	1.5	0.75R	1.8	20	60	4
3HRB 020 080 450	2	1R	2.4	8	50	4
3HRB 020 100 450	2	1R	2.4	10	50	4
3HRB 020 120 450	2	1R	2.4	12	50	4
3HRB 020 160 450	2	1R	2.4	16	50	4
3HRB 020 200 460	2	1R	2.4	20	60	4
3HRB 020 250 460	2	1R	2.4	25	60	4
3HRB 025 080 450	2.5	1.25R	3	8	50	4
3HRB 025 100 450	2.5	1.25R	3	10	50	4
3HRB 025 120 450	2.5	1.25R	3	12	50	4
3HRB 025 160 450	2.5	1.25R	3	16	50	4
3HRB 025 200 460	2.5	1.25R	3	20	60	4
3HRB 025 250 460	2.5	1.25R	3	25	60	4
3HRB 030 120 660	3	1.5R	3.6	12	60	6
3HRB 030 160 660	3	1.5R	3.6	16	60	6

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Unit(mm)

Model Number	Cutting Dia. D	Radius Of BN R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
3HRB 030 200 660	3	1.5R	3.6	20	60	6
3HRB 030 250 660	3	1.5R	3.6	25	60	6
3HRB 030 300 675	3	1.5R	3.6	30	75	6
3HRB 030 400 6A0	3	1.5R	3.6	40	100	6
3HRB 030 500 6A0	3	1.5R	3.6	50	100	6
3HRB 040 160 660	4	2R	4.8	16	60	6
3HRB 040 200 660	4	2R	4.8	20	60	6
3HRB 040 250 660	4	2R	4.8	25	60	6
3HRB 040 300 675	4	2R	4.8	30	75	6
3HRB 040 400 6A0	4	2R	4.8	40	100	6
3HRB 040 500 6A0	4	2R	4.8	50	100	6
3HRB 040 600 6A0	4	2R	4.8	60	100	6
3HRB 050 300 675	5	2.5R	6	30	75	6
3HRB 050 400 6A0	5	2.5R	6	40	100	6
3HRB 050 500 6A0	5	2.5R	6	50	100	6
3HRB 050 600 6A0	5	2.5R	6	60	100	6
3HRB 060 200 660	6	3R	9	20	60	6
3HRB 060 300 6A0	6	3R	9	30	100	6
3HRB 080 250 860	8	4R	12	25	60	8
3HRB 080 400 8A0	8	4R	12	40	100	8
3HRB 100 300 A75	10	5R	15	30	75	10
3HRB 100 500 AA0	10	5R	15	50	100	10
3HRB 120 350 C75	12	6R	18	35	75	12
3HRB 120 600 CA0	12	6R	18	60	100	12

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS