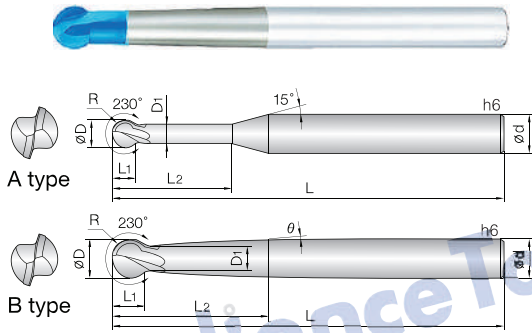


2 Flutes Hard Cut Spherical 3D Cut 230° Ball End Mills For Hardened Steels



2HSPB

- 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.
- 230° degree Ball shape for wide range 3D machining.
- Minimize chattering and fracturing by taper designed flute.
- 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	Neck Dia D1	Length Of Cut L1	Effective Length L2	Angle θ	Type	Overall Length L	Shank dia d
2HSPB 005 000 010 650	0.5	0.25R	0.43	0.36	1	0°	A	50	6
2HSPB 005 000 015 650	0.5	0.25R	0.43	0.36	1.5	0°	A	50	6
2HSPB 005 000 020 650	0.5	0.25R	0.43	0.36	2	0°	A	50	6
2HSPB 006 000 010 650	0.6	0.3R	0.52	0.43	1	0°	A	50	6
2HSPB 006 000 020 650	0.6	0.3R	0.52	0.43	2	0°	A	50	6
2HSPB 006 000 030 650	0.6	0.3R	0.52	0.43	3	0°	A	50	6
2HSPB 008 000 020 650	0.8	0.4R	0.71	0.57	2	0°	A	50	6
2HSPB 008 000 030 650	0.8	0.4R	0.71	0.57	3	0°	A	50	6
2HSPB 008 000 040 650	0.8	0.4R	0.71	0.57	4	0°	A	50	6
2HSPB 010 000 040 660	1	0.5R	0.91	0.70	4	0°	A	60	6
2HSPB 010 000 060 660	1	0.5R	0.91	0.70	6	0°	A	60	6
2HSPB 010 013 200 675	1	0.5R	0.91	0.70	20	1°30'	B	75	6
2HSPB 015 000 060 660	1.5	0.75R	1.36	1.00	6	0°	A	60	6
2HSPB 015 000 080 660	1.5	0.75R	1.36	1.00	8	0°	A	60	6
2HSPB 015 013 200 675	1.5	0.75R	1.36	1.00	20	1°30'	B	75	6
2HSPB 020 000 060 660	2	1R	1.8	1.40	6	0°	A	60	6
2HSPB 020 000 100 660	2	1R	1.8	1.40	10	0°	A	60	6
2HSPB 020 013 200 675	2	1R	1.8	1.40	20	1°30'	B	75	6
2HSPB 030 000 100 660	3	1.5R	2.7	2.10	10	0°	A	60	6
2HSPB 030 000 150 660	3	1.5R	2.7	2.10	15	0°	A	60	6
2HSPB 030 013 300 675	3	1.5R	2.7	2.10	30	1°30'	B	75	6
2HSPB 040 000 120 660	4	2R	3.6	2.80	12	0°	A	60	6
2HSPB 040 000 200 660	4	2R	3.6	2.80	20	0°	A	60	6
2HSPB 040 030 250 675	4	2R	3.6	2.80	25	3°	B	75	6
2HSPB 050 010 400 6A0	5	2.5R	4.5	3.50	40	1°	B	100	6
2HSPB 060 000 150 6A0	6	3R	5.4	4.20	15	0°	A	100	6

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2HSPB 060 000 300 6A0	6	3R	5.4	4.20	30	0°	A	100	6
2HSPB 060 010 210 6A0	6	3R	5.4	4.20	21	1°	B	100	6
2HSPB 080 010 280 8A0	8	4R	7.2	5.70	28	1°	B	100	8
2HSPB 100 010 350 AA0	10	5R	9	7.10	35	1°	B	100	10
2HSPB 120 010 420 CC0	12	6R	10.8	8.50	42	1°	B	120	12

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS