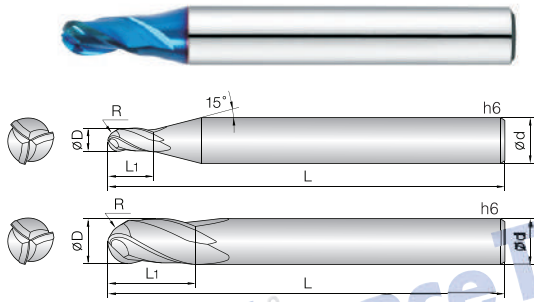


3 Flutes Hard Cut Standard Length Ball End Mills For Hardened Steels



3HPB

- 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.
- Three flutes ball edge design for high speed, feed condition.
- Good surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2μm) WC grade.



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
3HPB 010 025 450	1	0.5R	2.5	-	50	4
3HPB 012 030 450	1.2	0.6R	3	-	50	4
3HPB 015 040 450	1.5	0.75R	4	-	50	4
3HPB 020 050 650	2	1R	5	-	50	6
3HPB 030 080 660	3	1.5R	8	-	60	6
3HPB 040 080 460	4	2R	8	-	60	4
3HPB 040 080 660	4	2R	8	-	60	6
3HPB 050 100 675	5	2.5R	10	-	75	6
3HPB 060 120 675	6	3R	12	-	75	6
3HPB 060 120 6C0	6	3R	12	-	120	6
3HPB 080 140 8A0	8	4R	14	-	100	8
3HPB 080 140 8F0	8	4R	14	-	150	8
3HPB 100 180 AA0	10	5R	18	-	100	10
3HPB 100 180 AF0	10	5R	18	-	150	10
3HPB 120 220 CA0	12	6R	22	-	100	12
3HPB 120 220 CF0	12	6R	22	-	150	12