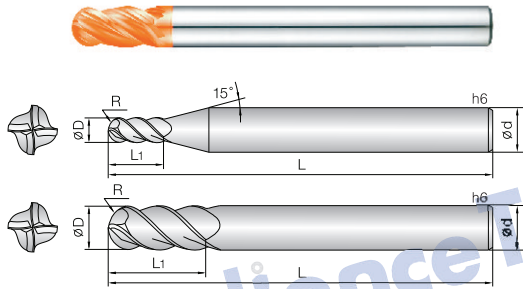


4 Flutes SUS-Cut 45° Helix Ball End Mills

4SPB



- **Ball Endmills for Alloy steels, SUS, Ti/Ni base alloys, Inconel and hard-to-cut materials**
- S coating provides wear resistance improvement as well as avoid edge stress in various applications.
- Minimize fracturing by high TRS fine WC grade.
- High speed, feed applicable by 45° helix and deep chip pocket design.



Unit(mm)

Model Number	Cutting Dia. D	Radius of BN R	Length Of Cut L1	Overall Length L	Shank dia d
4SPB 010 025 650	1	0.5R	2.5	50	6
4SPB 015 040 650	1.5	0.75R	4	50	6
4SPB 020 060 650	2	1R	6	50	6
4SPB 030 080 660	3	1.5R	8	60	6
4SPB 040 080 660	4	2R	8	60	6
4SPB 050 100 675	5	2.5R	10	75	6
4SPB 060 120 6A0	6	3R	12	100	6
4SPB 080 140 8A0	8	4R	14	100	8
4SPB 100 180 AA0	10	5R	18	100	10
4SPB 120 220 CA0	12	6R	22	100	12
4SPB 160 300 GC0	16	8R	30	120	16

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS