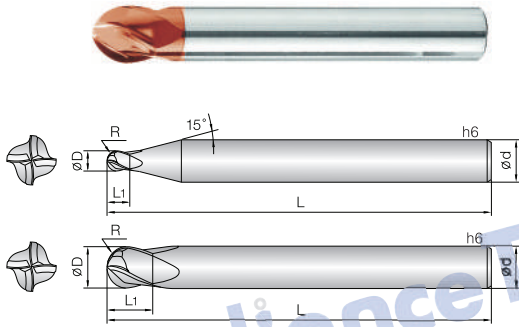


4 Flutes Wide Cut Short Length Ball End Mills

4WSB



- Ball Endmills for various work materials (HRC 50~62) Pre-hardened steels and Hardened steels.
- Good wear resistance by Si-based W coating.
- High-precise edge tolerance.
- Short overall length for easy use with shrinking chuck.
- Good surface finish.
- Minimize fracturing by high TRS fine (0.5µm) 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
4WSB 010 012 445	1	0.5R	1.2	-	45	4
4WSB 012 015 445	1.2	0.6R	1.5	-	45	4
4WSB 015 018 445	1.5	0.75R	1.8	-	45	4
4WSB 020 024 445	2	1R	2.4	-	45	4
4WSB 025 030 445	2.5	1.25R	3	-	45	4
4WSB 030 036 650	3	1.5R	3.6	-	50	6
4WSB 040 050 450	4	2R	5	-	50	4
4WSB 040 050 650	4	2R	5	-	50	6
4WSB 050 060 650	5	2.5R	6	-	50	6
4WSB 060 070 650	6	3R	7	-	50	6
4WSB 060 070 660	6	3R	7	-	60	6
4WSB 080 080 860	8	4R	8	-	60	8
4WSB 100 100 A60	10	5R	10	-	60	10
4WSB 120 120 C75	12	6R	12	-	75	12