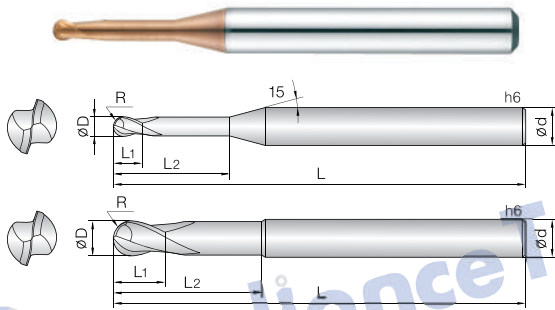


2 Flutes Wide Cut Rib Ball End Mills

2WRB



- Ball Endmills for various work material (HRC 50~62) Pre-hardened steels and Hardened steels.
- Good wear resistance by Si-based W coating.
- High-Precise edge tolerance.
- Good surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2µm) 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
2WRB 005 010 445	0.5	0.25R	0.5	1	45	4
2WRB 005 015 445	0.5	0.25R	0.5	1.5	45	4
2WRB 005 020 445	0.5	0.25R	0.5	2	45	4
2WRB 005 025 445	0.5	0.25R	0.5	2.5	45	4
2WRB 005 030 445	0.5	0.25R	0.5	3	45	4
2WRB 005 035 445	0.5	0.25R	0.5	3.5	45	4
2WRB 005 040 445	0.5	0.25R	0.5	4	45	4
2WRB 005 045 445	0.5	0.25R	0.5	4.5	45	4
2WRB 005 050 445	0.5	0.25R	0.5	5	45	4
2WRB 005 060 445	0.5	0.25R	0.5	6	45	4
2WRB 005 080 445	0.5	0.25R	0.5	8	45	4
2WRB 005 100 445	0.5	0.25R	0.5	10	45	4
2WRB 005 120 445	0.5	0.25R	0.5	12	45	4
2WRB 005 140 445	0.5	0.25R	0.5	14	45	4
2WRB 006 010 445	0.6	0.3R	0.6	1	45	4
2WRB 006 020 445	0.6	0.3R	0.6	2	45	4
2WRB 006 030 445	0.6	0.3R	0.6	3	45	4
2WRB 006 040 445	0.6	0.3R	0.6	4	45	4
2WRB 006 050 445	0.6	0.3R	0.6	5	45	4
2WRB 006 060 445	0.6	0.3R	0.6	6	45	4
2WRB 006 080 445	0.6	0.3R	0.6	8	45	4
2WRB 006 100 445	0.6	0.3R	0.6	10	45	4
2WRB 006 120 445	0.6	0.3R	0.6	12	45	4
2WRB 006 140 445	0.6	0.3R	0.6	14	45	4
2WRB 006 160 450	0.6	0.3R	0.6	16	50	4
2WRB 007 020 445	0.7	0.35R	0.7	2	45	4

2 Flutes Wide Cut Rib Ball End Mills



Unit(mm)

Model Number	Cutting Dia. D	Radius Of BN R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
2WRB 007 040 445	0.7	0.35R	0.7	4	45	4
2WRB 007 060 445	0.7	0.35R	0.7	6	45	4
2WRB 007 080 445	0.7	0.35R	0.7	8	45	4
2WRB 007 100 445	0.7	0.35R	0.7	10	45	4
2WRB 007 120 445	0.7	0.35R	0.7	12	45	4
2WRB 008 020 445	0.8	0.4R	0.8	2	45	4
2WRB 008 030 445	0.8	0.4R	0.8	3	45	4
2WRB 008 040 445	0.8	0.4R	0.8	4	45	4
2WRB 008 050 445	0.8	0.4R	0.8	5	45	4
2WRB 008 060 445	0.8	0.4R	0.8	6	45	4
2WRB 008 080 445	0.8	0.4R	0.8	8	45	4
2WRB 008 100 445	0.8	0.4R	0.8	10	45	4
2WRB 008 120 445	0.8	0.4R	0.8	12	45	4
2WRB 008 140 445	0.8	0.4R	0.8	14	45	4
2WRB 008 160 450	0.8	0.4R	0.8	16	50	4
2WRB 009 040 445	0.9	0.45R	0.9	4	45	4
2WRB 010 020 445	1	0.5R	1	2	45	4
2WRB 010 020 650	1	0.5R	1	2	50	6
2WRB 010 030 445	1	0.5R	1	3	45	4
2WRB 010 030 650	1	0.5R	1	3	50	6
2WRB 010 040 445	1	0.5R	1	4	45	4
2WRB 010 040 650	1	0.5R	1	4	50	6
2WRB 010 050 445	1	0.5R	1	5	45	4
2WRB 010 050 650	1	0.5R	1	5	50	6
2WRB 010 060 445	1	0.5R	1	6	45	4
2WRB 010 060 650	1	0.5R	1	6	50	6
2WRB 010 080 445	1	0.5R	1	8	45	4
2WRB 010 080 650	1	0.5R	1	8	50	6
2WRB 010 100 450	1	0.5R	1	10	50	4
2WRB 010 100 650	1	0.5R	1	10	50	6
2WRB 010 120 450	1	0.5R	1	12	50	4
2WRB 010 120 650	1	0.5R	1	12	50	6
2WRB 010 140 450	1	0.5R	1	14	50	4
2WRB 010 140 650	1	0.5R	1	14	50	6
2WRB 010 160 450	1	0.5R	1	16	50	4
2WRB 010 160 650	1	0.5R	1	16	50	6
2WRB 010 180 450	1	0.5R	1	18	50	4

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS

2 Flutes Wide Cut Rib Ball End Mills



Unit(mm)

Model Number	Cutting Dia. D	Radius Of BN R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
2WRB 010 180 660	1	0.5R	1	18	60	6
2WRB 010 200 450	1	0.5R	1	20	50	4
2WRB 010 200 660	1	0.5R	1	20	60	6
2WRB 010 220 460	1	0.5R	1	22	60	4
2WRB 010 220 660	1	0.5R	1	22	60	6
2WRB 010 250 460	1	0.5R	1	25	60	4
2WRB 010 300 475	1	0.5R	1	30	75	4
2WRB 012 040 445	1.2	0.6R	1.2	4	45	4
2WRB 012 040 650	1.2	0.6R	1.2	4	50	6
2WRB 012 060 445	1.2	0.6R	1.2	6	45	4
2WRB 012 060 650	1.2	0.6R	1.2	6	50	6
2WRB 012 080 445	1.2	0.6R	1.2	8	45	4
2WRB 012 080 650	1.2	0.6R	1.2	8	50	6
2WRB 012 100 450	1.2	0.6R	1.2	10	50	4
2WRB 012 100 650	1.2	0.6R	1.2	10	50	6
2WRB 012 120 450	1.2	0.6R	1.2	12	50	4
2WRB 012 120 650	1.2	0.6R	1.2	12	50	6
2WRB 012 160 450	1.2	0.6R	1.2	16	50	4
2WRB 012 160 650	1.2	0.6R	1.2	16	50	6
2WRB 012 200 450	1.2	0.6R	1.2	20	50	4
2WRB 012 200 660	1.2	0.6R	1.2	20	60	6
2WRB 012 240 460	1.2	0.6R	1.2	24	60	4
2WRB 012 240 660	1.2	0.6R	1.2	24	60	6
2WRB 014 060 445	1.4	0.7R	1.4	6	45	4
2WRB 014 080 445	1.4	0.7R	1.4	8	45	4
2WRB 014 120 450	1.4	0.7R	1.4	12	50	4
2WRB 014 160 450	1.4	0.7R	1.4	16	50	4
2WRB 015 030 445	1.5	0.75R	1.5	3	45	4
2WRB 015 030 650	1.5	0.75R	1.5	3	50	6
2WRB 015 040 445	1.5	0.75R	1.5	4	45	4
2WRB 015 040 650	1.5	0.75R	1.5	4	50	6
2WRB 015 060 445	1.5	0.75R	1.5	6	45	4
2WRB 015 060 650	1.5	0.75R	1.5	6	50	6
2WRB 015 080 445	1.5	0.75R	1.5	8	45	4
2WRB 015 080 650	1.5	0.75R	1.5	8	50	6
2WRB 015 100 450	1.5	0.75R	1.5	10	50	4
2WRB 015 100 650	1.5	0.75R	1.5	10	50	6

2 Flutes Wide Cut Rib Ball End Mills



Unit(mm)

Model Number	Cutting Dia. D	Radius Of BN R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
2WRB 015 120 450	1.5	0.75R	1.5	12	50	4
2WRB 015 120 650	1.5	0.75R	1.5	12	50	6
2WRB 015 140 450	1.5	0.75R	1.5	14	50	4
2WRB 015 140 650	1.5	0.75R	1.5	14	50	6
2WRB 015 160 450	1.5	0.75R	1.5	16	50	4
2WRB 015 160 650	1.5	0.75R	1.5	16	50	6
2WRB 015 180 450	1.5	0.75R	1.5	18	50	4
2WRB 015 180 660	1.5	0.75R	1.5	18	60	6
2WRB 015 200 450	1.5	0.75R	1.5	20	50	4
2WRB 015 200 660	1.5	0.75R	1.5	20	60	6
2WRB 015 220 460	1.5	0.75R	1.5	22	60	4
2WRB 015 220 660	1.5	0.75R	1.5	22	60	6
2WRB 015 250 460	1.5	0.75R	1.5	25	60	4
2WRB 015 250 660	1.5	0.75R	1.5	25	60	6
2WRB 015 300 475	1.5	0.75R	1.5	30	75	4
2WRB 015 300 675	1.5	0.75R	1.5	30	75	6
2WRB 015 350 475	1.5	0.75R	1.5	35	75	4
2WRB 015 400 475	1.5	0.75R	1.5	40	75	4
2WRB 016 060 445	1.6	0.8R	1.6	6	45	4
2WRB 016 080 445	1.6	0.8R	1.6	8	45	4
2WRB 016 120 450	1.6	0.8R	1.6	12	50	4
2WRB 016 160 450	1.6	0.8R	1.6	16	50	4
2WRB 016 200 450	1.6	0.8R	1.6	20	50	4
2WRB 018 060 445	1.8	0.9R	1.8	6	45	4
2WRB 018 080 445	1.8	0.9R	1.8	8	45	4
2WRB 018 120 450	1.8	0.9R	1.8	12	50	4
2WRB 018 160 450	1.8	0.9R	1.8	16	50	4
2WRB 018 200 450	1.8	0.9R	1.8	20	50	4
2WRB 020 040 445	2	1R	2	4	45	4
2WRB 020 040 650	2	1R	2	4	50	6
2WRB 020 060 445	2	1R	2	6	45	4
2WRB 020 060 650	2	1R	2	6	50	6
2WRB 020 080 445	2	1R	2	8	45	4
2WRB 020 080 650	2	1R	2	8	50	6
2WRB 020 100 450	2	1R	2	10	50	4
2WRB 020 100 650	2	1R	2	10	50	6
2WRB 020 120 450	2	1R	2	12	50	4

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS

2 Flutes Wide Cut Rib Ball End Mills



Unit(mm)

	Model Number	Cutting Dia. D	Radius Of BN R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
ECO-CUT	2WRB 020 120 650	2	1R	2	12	50	6
	2WRB 020 140 450	2	1R	2	14	50	4
WIDE-CUT	2WRB 020 140 650	2	1R	2	14	50	6
	2WRB 020 160 450	2	1R	2	16	50	4
HARD-CUT	2WRB 020 160 650	2	1R	2	16	50	6
	2WRB 020 180 450	2	1R	2	18	50	4
ALU-CUT	2WRB 020 180 660	2	1R	2	18	60	6
	2WRB 020 200 450	2	1R	2	20	50	4
D-CUT	2WRB 020 200 660	2	1R	2	20	60	6
	2WRB 020 220 460	2	1R	2	22	60	4
SUS CUT	2WRB 020 220 660	2	1R	2	22	60	6
	2WRB 020 250 460	2	1R	2	25	60	4
MAGIC DRILLS	2WRB 020 250 660	2	1R	2	25	60	6
	2WRB 020 300 475	2	1R	2	30	75	4
	2WRB 020 300 675	2	1R	2	30	75	6
	2WRB 020 350 475	2	1R	2	35	75	4
	2WRB 020 350 675	2	1R	2	35	75	6
	2WRB 020 400 475	2	1R	2	40	75	4
	2WRB 020 400 675	2	1R	2	40	75	6
	2WRB 020 450 475	2	1R	2	45	75	4
	2WRB 020 500 4A0	2	1R	2	50	100	4
	2WRB 025 080 445	2.5	1.25R	2.5	8	45	4
	2WRB 025 080 650	2.5	1.25R	2.5	8	50	6
	2WRB 025 100 450	2.5	1.25R	2.5	10	50	4
	2WRB 025 100 650	2.5	1.25R	2.5	10	50	6
	2WRB 025 120 450	2.5	1.25R	2.5	12	50	4
	2WRB 025 120 650	2.5	1.25R	2.5	12	50	6
	2WRB 025 160 450	2.5	1.25R	2.5	16	50	4
	2WRB 025 160 650	2.5	1.25R	2.5	16	50	6
	2WRB 025 200 460	2.5	1.25R	2.5	20	60	4
	2WRB 025 250 460	2.5	1.25R	2.5	25	60	4
	2WRB 025 300 475	2.5	1.25R	2.5	30	75	4
	2WRB 025 350 475	2.5	1.25R	2.5	35	75	4
	2WRB 025 400 475	2.5	1.25R	2.5	40	75	4
	2WRB 030 060 650	3	1.5R	3	6	50	6
	2WRB 030 080 650	3	1.5R	3	8	50	6
	2WRB 030 100 650	3	1.5R	3	10	50	6

2 Flutes Wide Cut Rib Ball End Mills



Unit(mm)

Model Number	Cutting Dia. D	Radius Of BN R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
2WRB 030 120 650	3	1.5R	3	12	50	6
2WRB 030 160 650	3	1.5R	3	16	50	6
2WRB 030 200 660	3	1.5R	3	20	60	6
2WRB 030 250 660	3	1.5R	3	25	60	6
2WRB 030 300 675	3	1.5R	3	30	75	6
2WRB 030 350 675	3	1.5R	3	35	75	6
2WRB 030 400 675	3	1.5R	3	40	75	6
2WRB 030 450 6A0	3	1.5R	3	45	100	6
2WRB 030 500 6A0	3	1.5R	3	50	100	6
2WRB 030 600 6A0	3	1.5R	3	60	100	6
2WRB 030 650 6A0	3	1.5R	3	65	100	6
2WRB 030 700 6A0	3	1.5R	3	70	100	6
2WRB 040 080 650	4	2R	4	8	50	6
2WRB 040 100 650	4	2R	4	10	50	6
2WRB 040 120 650	4	2R	4	12	50	6
2WRB 040 160 650	4	2R	4	16	50	6
2WRB 040 200 660	4	2R	4	20	60	6
2WRB 040 250 660	4	2R	4	25	60	6
2WRB 040 300 675	4	2R	4	30	75	6
2WRB 040 350 675	4	2R	4	35	75	6
2WRB 040 400 675	4	2R	4	40	75	6
2WRB 040 450 6A0	4	2R	4	45	100	6
2WRB 040 500 6A0	4	2R	4	50	100	6
2WRB 040 550 6A0	4	2R	4	55	100	6
2WRB 040 600 6A0	4	2R	4	60	100	6
2WRB 040 650 6A0	4	2R	4	65	100	6
2WRB 040 700 6A0	4	2R	4	70	100	6
2WRB 050 160 650	5	2.5R	6	16	50	6
2WRB 050 200 660	5	2.5R	6	20	60	6
2WRB 050 250 675	5	2.5R	6	25	75	6
2WRB 050 300 675	5	2.5R	6	30	75	6
2WRB 050 400 675	5	2.5R	6	40	75	6
2WRB 050 450 6A0	5	2.5R	6	45	100	6
2WRB 050 500 6A0	5	2.5R	6	50	100	6
2WRB 050 600 6A0	5	2.5R	6	60	100	6
2WRB 050 650 6A0	5	2.5R	6	65	100	6
2WRB 050 700 6A0	5	2.5R	6	70	100	6

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS

2 Flutes Wide Cut Rib Ball End Mills



Unit(mm)

Model Number	Cutting Dia. D	Radius Of BN R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
2WRB 060 150 650	6	3R	10	15	50	6
2WRB 060 300 6A0	6	3R	10	30	100	6
2WRB 080 250 860	8	4R	12	25	60	8
2WRB 080 300 8A0	8	4R	12	30	100	8
2WRB 100 300 A75	10	5R	16	30	75	10
2WRB 100 350 AA0	10	5R	16	35	100	10
2WRB 120 300 C75	12	6R	18	30	75	12
2WRB 120 400 CA0	12	6R	18	40	100	12