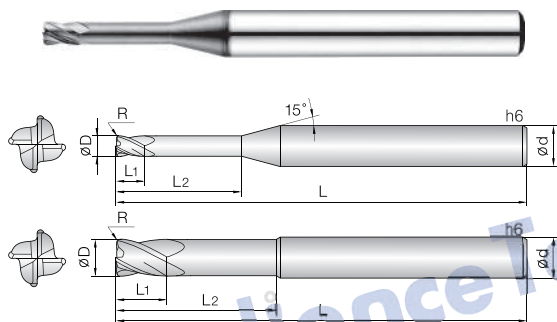


4 Flutes Eco Cut Rib Corner Radius End Mills For Multi Purpose

4ERR



- Corner Radius Endmills for various work materials (HRC~50) Carbon steels, Mould steels, Pre-hardened steels
- Optimum for various work materials by E coating.
- High-Precise edge tolerance.
- Design for minimizing edge chipping by corner R shape.
- Various corner R and flute length for wide range application.
- Minimize fracturing by high TRS fine(0.5µm) 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
4ERR 010 0005 040 445	1	R0.05	1.2	4	45	4
4ERR 010 0005 060 445	1	R0.05	1.2	6	45	4
4ERR 010 0005 080 445	1	R0.05	1.2	8	45	4
4ERR 010 0005 100 450	1	R0.05	1.2	10	50	4
4ERR 010 0005 120 450	1	R0.05	1.2	12	50	4
4ERR 010 0005 160 450	1	R0.05	1.2	16	50	4
4ERR 010 0005 200 450	1	R0.05	1.2	20	50	4
4ERR 010 001 040 445	1	R0.1	1.2	4	45	4
4ERR 010 001 060 445	1	R0.1	1.2	6	45	4
4ERR 010 001 080 445	1	R0.1	1.2	8	45	4
4ERR 010 001 100 450	1	R0.1	1.2	10	50	4
4ERR 010 001 120 450	1	R0.1	1.2	12	50	4
4ERR 010 001 160 450	1	R0.1	1.2	16	50	4
4ERR 010 001 200 450	1	R0.1	1.2	20	50	4
4ERR 010 002 040 445	1	R0.2	1.2	4	45	4
4ERR 010 002 060 445	1	R0.2	1.2	6	45	4
4ERR 010 002 080 445	1	R0.2	1.2	8	45	4
4ERR 010 002 100 450	1	R0.2	1.2	10	50	4
4ERR 010 002 120 450	1	R0.2	1.2	12	50	4
4ERR 010 002 160 450	1	R0.2	1.2	16	50	4
4ERR 010 002 200 450	1	R0.2	1.2	20	50	4
4ERR 010 003 040 445	1	R0.3	1.2	4	45	4
4ERR 010 003 060 445	1	R0.3	1.2	6	45	4
4ERR 010 003 080 445	1	R0.3	1.2	8	45	4
4ERR 010 003 100 450	1	R0.3	1.2	10	50	4
4ERR 010 003 120 450	1	R0.3	1.2	12	50	4

4 Flutes Eco Cut Rib Corner Radius End Mills For Multi Purpose



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4ERR 010 003 160 450	1	R0.3	1.2	16	50	4
4ERR 010 003 200 450	1	R0.3	1.2	20	50	4
4ERR 012 001 040 445	1.2	R0.1	1.4	4	45	4
4ERR 012 001 060 445	1.2	R0.1	1.4	6	45	4
4ERR 012 001 080 445	1.2	R0.1	1.4	8	45	4
4ERR 012 001 100 450	1.2	R0.1	1.4	10	50	4
4ERR 012 001 120 450	1.2	R0.1	1.4	12	50	4
4ERR 012 001 160 450	1.2	R0.1	1.4	16	50	4
4ERR 012 001 200 450	1.2	R0.1	1.4	20	50	4
4ERR 012 002 040 445	1.2	R0.2	1.4	4	45	4
4ERR 012 002 060 445	1.2	R0.2	1.4	6	45	4
4ERR 012 002 080 445	1.2	R0.2	1.4	8	45	4
4ERR 012 002 100 450	1.2	R0.2	1.4	10	50	4
4ERR 012 002 120 450	1.2	R0.2	1.4	12	50	4
4ERR 012 002 160 450	1.2	R0.2	1.4	16	50	4
4ERR 012 002 200 450	1.2	R0.2	1.4	20	50	4
4ERR 012 003 040 445	1.2	R0.3	1.4	4	45	4
4ERR 012 003 060 445	1.2	R0.3	1.4	6	45	4
4ERR 012 003 080 445	1.2	R0.3	1.4	8	45	4
4ERR 012 003 100 450	1.2	R0.3	1.4	10	50	4
4ERR 012 003 120 450	1.2	R0.3	1.4	12	50	4
4ERR 012 003 160 450	1.2	R0.3	1.4	16	50	4
4ERR 012 003 200 450	1.2	R0.3	1.4	20	50	4
4ERR 015 001 060 445	1.5	R0.1	1.8	6	45	4
4ERR 015 001 080 445	1.5	R0.1	1.8	8	45	4
4ERR 015 001 100 450	1.5	R0.1	1.8	10	50	4
4ERR 015 001 120 450	1.5	R0.1	1.8	12	50	4
4ERR 015 001 160 450	1.5	R0.1	1.8	16	50	4
4ERR 015 001 200 450	1.5	R0.1	1.8	20	50	4
4ERR 015 001 220 460	1.5	R0.1	1.8	22	60	4
4ERR 015 001 250 460	1.5	R0.1	1.8	25	60	4
4ERR 015 002 060 445	1.5	R0.2	1.8	6	45	4
4ERR 015 002 080 445	1.5	R0.2	1.8	8	45	4
4ERR 015 002 100 450	1.5	R0.2	1.8	10	50	4
4ERR 015 002 120 450	1.5	R0.2	1.8	12	50	4
4ERR 015 002 160 450	1.5	R0.2	1.8	16	50	4
4ERR 015 002 200 450	1.5	R0.2	1.8	20	50	4

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS

4 Flutes Eco Cut Rib Corner Radius End Mills For Multi Purpose



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4ERR 015 002 220 460	1.5	R0.2	1.8	22	60	4
4ERR 015 002 250 460	1.5	R0.2	1.8	25	60	4
4ERR 015 003 060 445	1.5	R0.3	1.8	6	45	4
4ERR 015 003 080 445	1.5	R0.3	1.8	8	45	4
4ERR 015 003 100 450	1.5	R0.3	1.8	10	50	4
4ERR 015 003 120 450	1.5	R0.3	1.8	12	50	4
4ERR 015 003 160 450	1.5	R0.3	1.8	16	50	4
4ERR 015 003 200 450	1.5	R0.3	1.8	20	50	4
4ERR 015 003 220 460	1.5	R0.3	1.8	22	60	4
4ERR 015 003 250 460	1.5	R0.3	1.8	25	60	4
4ERR 015 005 060 445	1.5	R0.5	1.8	6	45	4
4ERR 015 005 080 445	1.5	R0.5	1.8	8	45	4
4ERR 015 005 100 450	1.5	R0.5	1.8	10	50	4
4ERR 015 005 120 450	1.5	R0.5	1.8	12	50	4
4ERR 015 005 160 450	1.5	R0.5	1.8	16	50	4
4ERR 015 005 200 450	1.5	R0.5	1.8	20	50	4
4ERR 015 005 220 460	1.5	R0.5	1.8	22	60	4
4ERR 015 005 250 460	1.5	R0.5	1.8	25	60	4
4ERR 020 001 060 445	2	R0.1	2.4	6	45	4
4ERR 020 001 080 445	2	R0.1	2.4	8	45	4
4ERR 020 001 100 450	2	R0.1	2.4	10	50	4
4ERR 020 001 120 450	2	R0.1	2.4	12	50	4
4ERR 020 001 160 450	2	R0.1	2.4	16	50	4
4ERR 020 001 200 450	2	R0.1	2.4	20	50	4
4ERR 020 001 250 460	2	R0.1	2.4	25	60	4
4ERR 020 001 300 475	2	R0.1	2.4	30	75	4
4ERR 020 001 350 475	2	R0.1	2.4	35	75	4
4ERR 020 002 060 445	2	R0.2	2.4	6	45	4
4ERR 020 002 080 445	2	R0.2	2.4	8	45	4
4ERR 020 002 100 450	2	R0.2	2.4	10	50	4
4ERR 020 002 120 450	2	R0.2	2.4	12	50	4
4ERR 020 002 160 450	2	R0.2	2.4	16	50	4
4ERR 020 002 200 450	2	R0.2	2.4	20	50	4
4ERR 020 002 250 460	2	R0.2	2.4	25	60	4
4ERR 020 002 300 475	2	R0.2	2.4	30	75	4
4ERR 020 002 350 475	2	R0.2	2.4	35	75	4
4ERR 020 003 060 445	2	R0.3	2.4	6	45	4

4 Flutes Eco Cut Rib Corner Radius End Mills For Multi Purpose



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4ERR 020 003 080 445	2	R0.3	2.4	8	45	4
4ERR 020 003 100 450	2	R0.3	2.4	10	50	4
4ERR 020 003 120 450	2	R0.3	2.4	12	50	4
4ERR 020 003 160 450	2	R0.3	2.4	16	50	4
4ERR 020 003 200 450	2	R0.3	2.4	20	50	4
4ERR 020 003 250 460	2	R0.3	2.4	25	60	4
4ERR 020 003 300 475	2	R0.3	2.4	30	75	4
4ERR 020 003 350 475	2	R0.3	2.4	35	75	4
4ERR 020 005 060 445	2	R0.5	2.4	6	45	4
4ERR 020 005 080 445	2	R0.5	2.4	8	45	4
4ERR 020 005 100 450	2	R0.5	2.4	10	50	4
4ERR 020 005 120 450	2	R0.5	2.4	12	50	4
4ERR 020 005 160 450	2	R0.5	2.4	16	50	4
4ERR 020 005 200 450	2	R0.5	2.4	20	50	4
4ERR 020 005 250 460	2	R0.5	2.4	25	60	4
4ERR 020 005 300 475	2	R0.5	2.4	30	75	4
4ERR 020 005 350 475	2	R0.5	2.4	35	75	4
4ERR 025 001 100 450	2.5	R0.1	3	10	50	4
4ERR 025 001 160 450	2.5	R0.1	3	16	50	4
4ERR 025 001 200 450	2.5	R0.1	3	20	50	4
4ERR 025 001 250 460	2.5	R0.1	3	25	60	4
4ERR 025 001 300 475	2.5	R0.1	3	30	75	4
4ERR 025 002 100 450	2.5	R0.2	3	10	50	4
4ERR 025 002 160 450	2.5	R0.2	3	16	50	4
4ERR 025 002 200 450	2.5	R0.2	3	20	50	4
4ERR 025 002 250 460	2.5	R0.2	3	25	60	4
4ERR 025 002 300 475	2.5	R0.2	3	30	75	4
4ERR 025 003 100 450	2.5	R0.3	3	10	50	4
4ERR 025 003 160 450	2.5	R0.3	3	16	50	4
4ERR 025 003 200 450	2.5	R0.3	3	20	50	4
4ERR 025 003 250 460	2.5	R0.3	3	25	60	4
4ERR 025 003 300 475	2.5	R0.3	3	30	75	4
4ERR 025 005 100 450	2.5	R0.5	3	10	50	4
4ERR 025 005 160 450	2.5	R0.5	3	16	50	4
4ERR 025 005 200 450	2.5	R0.5	3	20	50	4
4ERR 025 005 250 460	2.5	R0.5	3	25	60	4
4ERR 025 005 300 475	2.5	R0.5	3	30	75	4

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS

4 Flutes Eco Cut Rib Corner Radius End Mills For Multi Purpose



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4ERR 030 001 100 650	3	R0.1	3.6	10	50	6
4ERR 030 001 160 650	3	R0.1	3.6	16	50	6
4ERR 030 001 200 660	3	R0.1	3.6	20	60	6
4ERR 030 001 250 660	3	R0.1	3.6	25	60	6
4ERR 030 001 300 675	3	R0.1	3.6	30	75	6
4ERR 030 001 350 675	3	R0.1	3.6	35	75	6
4ERR 030 001 400 675	3	R0.1	3.6	40	75	6
4ERR 030 001 500 6A0	3	R0.1	3.6	50	100	6
4ERR 030 002 100 650	3	R0.2	3.6	10	50	6
4ERR 030 002 160 650	3	R0.2	3.6	16	50	6
4ERR 030 002 200 660	3	R0.2	3.6	20	60	6
4ERR 030 002 250 660	3	R0.2	3.6	25	60	6
4ERR 030 002 300 675	3	R0.2	3.6	30	75	6
4ERR 030 002 350 675	3	R0.2	3.6	35	75	6
4ERR 030 002 400 675	3	R0.2	3.6	40	75	6
4ERR 030 002 500 6A0	3	R0.2	3.6	50	100	6
4ERR 030 003 100 650	3	R0.3	3.6	10	50	6
4ERR 030 003 160 650	3	R0.3	3.6	16	50	6
4ERR 030 003 200 660	3	R0.3	3.6	20	60	6
4ERR 030 003 250 660	3	R0.3	3.6	25	60	6
4ERR 030 003 300 675	3	R0.3	3.6	30	75	6
4ERR 030 003 350 675	3	R0.3	3.6	35	75	6
4ERR 030 003 400 675	3	R0.3	3.6	40	75	6
4ERR 030 003 500 6A0	3	R0.3	3.6	50	100	6
4ERR 030 005 100 650	3	R0.5	3.6	10	50	6
4ERR 030 005 160 650	3	R0.5	3.6	16	50	6
4ERR 030 005 200 660	3	R0.5	3.6	20	60	6
4ERR 030 005 250 660	3	R0.5	3.6	25	60	6
4ERR 030 005 300 675	3	R0.5	3.6	30	75	6
4ERR 030 005 350 675	3	R0.5	3.6	35	75	6
4ERR 030 005 400 675	3	R0.5	3.6	40	75	6
4ERR 030 005 500 6A0	3	R0.5	3.6	50	100	6
4ERR 030 010 100 650	3	R1	3.6	10	50	6
4ERR 030 010 160 650	3	R1	3.6	16	50	6
4ERR 030 010 200 660	3	R1	3.6	20	60	6
4ERR 030 010 250 660	3	R1	3.6	25	60	6
4ERR 030 010 300 675	3	R1	3.6	30	75	6

4 Flutes Eco Cut Rib Corner Radius End Mills For Multi Purpose



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4ERR 030 010 350 675	3	R1	3.6	35	75	6
4ERR 030 010 400 675	3	R1	3.6	40	75	6
4ERR 030 010 500 6A0	3	R1	3.6	50	100	6
4ERR 040 001 120 450	4	R0.1	4.8	12	50	4
4ERR 040 001 200 475	4	R0.1	4.8	20	75	4
4ERR 040 001 120 650	4	R0.1	4.8	12	50	6
4ERR 040 001 160 650	4	R0.1	4.8	16	50	6
4ERR 040 001 200 660	4	R0.1	4.8	20	60	6
4ERR 040 001 250 660	4	R0.1	4.8	25	60	6
4ERR 040 001 300 675	4	R0.1	4.8	30	75	6
4ERR 040 001 350 675	4	R0.1	4.8	35	75	6
4ERR 040 001 400 675	4	R0.1	4.8	40	75	6
4ERR 040 001 450 6A0	4	R0.1	4.8	45	100	6
4ERR 040 001 500 6A0	4	R0.1	4.8	50	100	6
4ERR 040 002 120 450	4	R0.2	4.8	12	50	4
4ERR 040 002 200 475	4	R0.2	4.8	20	75	4
4ERR 040 002 120 650	4	R0.2	4.8	12	50	6
4ERR 040 002 160 650	4	R0.2	4.8	16	50	6
4ERR 040 002 200 660	4	R0.2	4.8	20	60	6
4ERR 040 002 250 660	4	R0.2	4.8	25	60	6
4ERR 040 002 300 675	4	R0.2	4.8	30	75	6
4ERR 040 002 350 675	4	R0.2	4.8	35	75	6
4ERR 040 002 400 675	4	R0.2	4.8	40	75	6
4ERR 040 002 450 6A0	4	R0.2	4.8	45	100	6
4ERR 040 002 500 6A0	4	R0.2	4.8	50	100	6
4ERR 040 003 120 450	4	R0.3	4.8	12	50	4
4ERR 040 003 200 475	4	R0.3	4.8	20	75	4
4ERR 040 003 120 650	4	R0.3	4.8	12	50	6
4ERR 040 003 160 650	4	R0.3	4.8	16	50	6
4ERR 040 003 200 660	4	R0.3	4.8	20	60	6
4ERR 040 003 250 660	4	R0.3	4.8	25	60	6
4ERR 040 003 300 675	4	R0.3	4.8	30	75	6
4ERR 040 003 350 675	4	R0.3	4.8	35	75	6
4ERR 040 003 400 675	4	R0.3	4.8	40	75	6
4ERR 040 003 450 6A0	4	R0.3	4.8	45	100	6
4ERR 040 003 500 6A0	4	R0.3	4.8	50	100	6
4ERR 040 005 120 450	4	R0.5	4.8	12	50	4

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS

4 Flutes Eco Cut Rib Corner Radius End Mills For Multi Purpose



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4ERR 040 005 200 475	4	R0.5	4.8	20	75	4
4ERR 040 005 120 650	4	R0.5	4.8	12	50	6
4ERR 040 005 160 650	4	R0.5	4.8	16	50	6
4ERR 040 005 200 660	4	R0.5	4.8	20	60	6
4ERR 040 005 250 660	4	R0.5	4.8	25	60	6
4ERR 040 005 300 675	4	R0.5	4.8	30	75	6
4ERR 040 005 350 675	4	R0.5	4.8	35	75	6
4ERR 040 005 400 675	4	R0.5	4.8	40	75	6
4ERR 040 005 450 6A0	4	R0.5	4.8	45	100	6
4ERR 040 005 500 6A0	4	R0.5	4.8	50	100	6
4ERR 040 005 120 450	4	R1	4.8	12	50	4
4ERR 040 010 200 475	4	R1	4.8	20	75	4
4ERR 040 010 120 650	4	R1	4.8	12	50	6
4ERR 040 010 160 650	4	R1	4.8	16	50	6
4ERR 040 010 200 660	4	R1	4.8	20	60	6
4ERR 040 010 250 660	4	R1	4.8	25	60	6
4ERR 040 010 300 675	4	R1	4.8	30	75	6
4ERR 040 010 350 675	4	R1	4.8	35	75	6
4ERR 040 010 400 675	4	R1	4.8	40	75	6
4ERR 040 010 450 6A0	4	R1	4.8	45	100	6
4ERR 040 010 500 6A0	4	R1	4.8	50	100	6
4ERR 050 001 150 650	5	R0.1	6	15	50	6
4ERR 050 001 300 675	5	R0.1	6	30	75	6
4ERR 050 001 400 675	5	R0.1	6	40	75	6
4ERR 050 001 500 6A0	5	R0.1	6	50	100	6
4ERR 050 002 150 650	5	R0.2	6	15	50	6
4ERR 050 002 300 675	5	R0.2	6	30	75	6
4ERR 050 002 400 675	5	R0.2	6	40	75	6
4ERR 050 002 500 6A0	5	R0.2	6	50	100	6
4ERR 050 003 150 650	5	R0.3	6	15	50	6
4ERR 050 003 300 675	5	R0.3	6	30	75	6
4ERR 050 003 400 675	5	R0.3	6	40	75	6
4ERR 050 003 500 6A0	5	R0.3	6	50	100	6
4ERR 050 005 150 650	5	R0.5	6	15	50	6
4ERR 050 005 300 675	5	R0.5	6	30	75	6
4ERR 050 005 400 675	5	R0.5	6	40	75	6
4ERR 050 005 500 6A0	5	R0.5	6	50	100	6

4 Flutes Eco Cut Rib Corner Radius End Mills For Multi Purpose



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4ERR 050 010 150 650	5	R1	6	15	50	6
4ERR 050 010 300 675	5	R1	6	30	75	6
4ERR 050 010 400 675	5	R1	6	40	75	6
4ERR 050 010 500 6A0	5	R1	6	50	100	6
4ERR 060 001 200 660	6	R0.1	7	20	60	6
4ERR 060 001 400 675	6	R0.1	7	40	75	6
4ERR 060 001 500 6A0	6	R0.1	7	50	100	6
4ERR 060 002 200 660	6	R0.2	7	20	60	6
4ERR 060 002 400 675	6	R0.2	7	40	75	6
4ERR 060 002 500 6A0	6	R0.2	7	50	100	6
4ERR 060 003 200 660	6	R0.3	7	20	60	6
4ERR 060 003 400 675	6	R0.3	7	40	75	6
4ERR 060 003 500 6A0	6	R0.3	7	50	100	6
4ERR 060 005 200 660	6	R0.5	7	20	60	6
4ERR 060 005 400 675	6	R0.5	7	40	75	6
4ERR 060 005 500 6A0	6	R0.5	7	50	100	6
4ERR 060 010 200 660	6	R1	7	20	60	6
4ERR 060 010 400 675	6	R1	7	40	75	6
4ERR 060 010 500 6A0	6	R1	7	50	100	6
4ERR 060 015 200 660	6	R1.5	7	20	60	6
4ERR 060 015 400 675	6	R1.5	7	40	75	6
4ERR 060 015 500 6A0	6	R1.5	7	50	100	6
4ERR 080 002 220 860	8	R0.2	9	22	60	8
4ERR 080 003 220 860	8	R0.3	9	22	60	8
4ERR 080 005 220 860	8	R0.5	9	22	60	8
4ERR 080 005 400 8A0	8	R0.5	9	40	100	8
4ERR 080 010 220 860	8	R1	9	22	60	8
4ERR 080 010 400 8A0	8	R1	9	40	100	8
4ERR 080 015 220 860	8	R1.5	9	22	60	8
4ERR 080 015 400 8A0	8	R1.5	9	40	100	8
4ERR 080 020 220 860	8	R2	9	22	60	8
4ERR 100 002 240 A75	10	R0.2	11	24	75	10
4ERR 100 003 240 A75	10	R0.3	11	24	75	10
4ERR 100 005 240 A75	10	R0.5	11	24	75	10
4ERR 100 005 400 AA0	10	R0.5	11	40	100	10
4ERR 100 010 240 A75	10	R1	11	24	75	10
4ERR 100 010 400 AA0	10	R1	11	40	100	10

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS

4 Flutes Eco Cut Rib Corner Radius End Mills For Multi Purpose



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4ERR 100 015 240 A75	10	R1.5	11	24	75	10
4ERR 100 015 400 AA0	10	R1.5	11	40	100	10
4ERR 100 020 240 A75	10	R2	11	24	75	10
4ERR 100 025 240 A75	10	R2.5	11	24	75	10
4ERR 120 003 260 C75	12	R0.3	13	26	75	12
4ERR 120 005 260 C75	12	R0.5	13	26	75	12
4ERR 120 005 400 CA0	12	R0.5	13	40	100	12
4ERR 120 010 260 C75	12	R1	13	26	75	12
4ERR 120 010 400 CA0	12	R1	13	40	100	12
4ERR 120 015 260 C75	12	R1.5	13	26	75	12
4ERR 120 015 400 CA0	12	R1.5	13	40	100	12
4ERR 120 020 260 C75	12	R2	13	26	75	12
4ERR 120 030 260 C75	12	R3	13	26	75	12