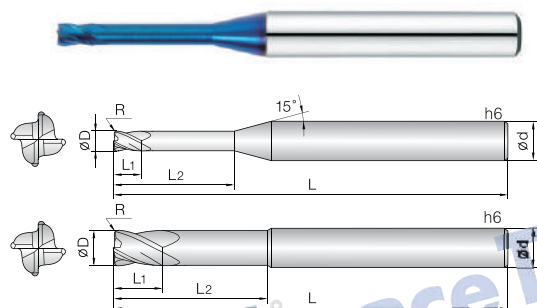


4 Flutes Hard Cut Rib Corner Radius End Mills For Hardened Steels



4HRR

- Corner Radius 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.
- Designed for minimizing edge chipping by corner R shape.
- Various corner R and flute length for wide range application.
- 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
4HRR 005 0005 020 445	0.5	R0.05	0.5	2	45	4
4HRR 005 0005 040 445	0.5	R0.05	0.5	4	45	4
4HRR 005 0005 060 445	0.5	R0.05	0.5	6	45	4
4HRR 005 0005 080 445	0.5	R0.05	0.5	8	45	4
4HRR 005 001 020 445	0.5	R0.1	0.5	2	45	4
4HRR 005 001 040 445	0.5	R0.1	0.5	4	45	4
4HRR 005 001 060 445	0.5	R0.1	0.5	6	45	4
4HRR 005 001 080 445	0.5	R0.1	0.5	8	45	4
4HRR 006 0005 020 445	0.6	R0.05	0.6	2	45	4
4HRR 006 0005 040 445	0.6	R0.05	0.6	4	45	4
4HRR 006 0005 060 445	0.6	R0.05	0.6	6	45	4
4HRR 006 0005 080 445	0.6	R0.05	0.6	8	45	4
4HRR 006 001 020 445	0.6	R0.1	0.6	2	45	4
4HRR 006 001 040 445	0.6	R0.1	0.6	4	45	4
4HRR 006 001 060 445	0.6	R0.1	0.6	6	45	4
4HRR 006 001 080 445	0.6	R0.1	0.6	8	45	4
4HRR 007 0005 020 445	0.7	R0.05	0.7	2	45	4
4HRR 007 0005 040 445	0.7	R0.05	0.7	4	45	4
4HRR 007 0005 060 445	0.7	R0.05	0.7	6	45	4
4HRR 007 0005 080 445	0.7	R0.05	0.7	8	45	4
4HRR 007 001 020 445	0.7	R0.1	0.7	2	45	4
4HRR 007 001 040 445	0.7	R0.1	0.7	4	45	4
4HRR 007 001 060 445	0.7	R0.1	0.7	6	45	4
4HRR 007 001 080 445	0.7	R0.1	0.7	8	45	4
4HRR 008 0002 020 445	0.8	R0.02	0.8	2	45	4
4HRR 008 0002 040 445	0.8	R0.02	0.8	4	45	4

4 Flutes Hard Cut Rib Corner Radius End Mills For Hardened Steels



Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HRR 008 0002 060 445	0.8	R0.02	0.8	6	45	4
4HRR 008 0002 080 445	0.8	R0.02	0.8	8	45	4
4HRR 008 0002 100 445	0.8	R0.02	0.8	10	45	4
4HRR 008 0002 120 450	0.8	R0.02	0.8	12	50	4
4HRR 008 0005 020 445	0.8	R0.05	0.8	2	45	4
4HRR 008 0005 040 445	0.8	R0.05	0.8	4	45	4
4HRR 008 0005 060 445	0.8	R0.05	0.8	6	45	4
4HRR 008 0005 080 445	0.8	R0.05	0.8	8	45	4
4HRR 008 0005 100 445	0.8	R0.05	0.8	10	45	4
4HRR 008 0005 120 450	0.8	R0.05	0.8	12	50	4
4HRR 008 001 020 445	0.8	R0.1	0.8	2	45	4
4HRR 008 001 040 445	0.8	R0.1	0.8	4	45	4
4HRR 008 001 060 445	0.8	R0.1	0.8	6	45	4
4HRR 008 001 080 445	0.8	R0.1	0.8	8	45	4
4HRR 008 001 100 445	0.8	R0.1	0.8	10	45	4
4HRR 008 001 120 450	0.8	R0.1	0.8	12	50	4
4HRR 010 0002 040 445	1	R0.02	1	4	45	4
4HRR 010 0002 060 445	1	R0.02	1	6	45	4
4HRR 010 0002 080 445	1	R0.02	1	8	45	4
4HRR 010 0002 100 450	1	R0.02	1	10	50	4
4HRR 010 0002 120 450	1	R0.02	1	12	50	4
4HRR 010 0002 140 450	1	R0.02	1	14	50	4
4HRR 010 0002 160 450	1	R0.02	1	16	50	4
4HRR 010 0002 200 450	1	R0.02	1	20	50	4
4HRR 010 0005 040 445	1	R0.05	1	4	45	4
4HRR 010 0005 060 445	1	R0.05	1	6	45	4
4HRR 010 0005 080 445	1	R0.05	1	8	45	4
4HRR 010 0005 100 450	1	R0.05	1	10	50	4
4HRR 010 0005 120 450	1	R0.05	1	12	50	4
4HRR 010 0005 140 450	1	R0.05	1	14	50	4
4HRR 010 0005 160 450	1	R0.05	1	16	50	4
4HRR 010 0005 200 450	1	R0.05	1	20	50	4
4HRR 010 001 040 445	1	R0.1	1	4	45	4
4HRR 010 001 060 445	1	R0.1	1	6	45	4
4HRR 010 001 080 445	1	R0.1	1	8	45	4
4HRR 010 001 100 450	1	R0.1	1	10	50	4
4HRR 010 001 120 450	1	R0.1	1	12	50	4
4HRR 010 001 140 450	1	R0.1	1	14	50	4

4 Flutes Hard Cut Rib Corner Radius End Mills For Hardened Steels



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HRR 010 001 160 450	1	R0.1	1	16	50	4
4HRR 010 001 200 450	1	R0.1	1	20	50	4
4HRR 010 002 040 445	1	R0.2	1	4	45	4
4HRR 010 002 060 445	1	R0.2	1	6	45	4
4HRR 010 002 080 445	1	R0.2	1	8	45	4
4HRR 010 002 100 450	1	R0.2	1	10	50	4
4HRR 010 002 120 450	1	R0.2	1	12	50	4
4HRR 010 002 140 450	1	R0.2	1	14	50	4
4HRR 010 002 160 450	1	R0.2	1	16	50	4
4HRR 010 002 200 450	1	R0.2	1	20	50	4
4HRR 010 003 040 445	1	R0.3	1	4	45	4
4HRR 010 003 060 445	1	R0.3	1	6	45	4
4HRR 010 003 080 445	1	R0.3	1	8	45	4
4HRR 010 003 100 450	1	R0.3	1	10	50	4
4HRR 010 003 120 450	1	R0.3	1	12	50	4
4HRR 010 003 140 450	1	R0.3	1	14	50	4
4HRR 010 003 160 450	1	R0.3	1	16	50	4
4HRR 010 003 200 450	1	R0.3	1	20	50	4
4HRR 012 0002 040 445	1.2	R0.02	1.2	4	45	4
4HRR 012 0002 060 445	1.2	R0.02	1.2	6	45	4
4HRR 012 0002 080 445	1.2	R0.02	1.2	8	45	4
4HRR 012 0002 100 450	1.2	R0.02	1.2	10	50	4
4HRR 012 0002 120 450	1.2	R0.02	1.2	12	50	4
4HRR 012 0002 140 450	1.2	R0.02	1.2	14	50	4
4HRR 012 0002 160 450	1.2	R0.02	1.2	16	50	4
4HRR 012 0002 200 450	1.2	R0.02	1.2	20	50	4
4HRR 012 0005 040 445	1.2	R0.05	1.2	4	45	4
4HRR 012 0005 060 445	1.2	R0.05	1.2	6	45	4
4HRR 012 0005 080 445	1.2	R0.05	1.2	8	45	4
4HRR 012 0005 100 450	1.2	R0.05	1.2	10	50	4
4HRR 012 0005 120 450	1.2	R0.05	1.2	12	50	4
4HRR 012 0005 140 450	1.2	R0.05	1.2	14	50	4
4HRR 012 0005 160 450	1.2	R0.05	1.2	16	50	4
4HRR 012 0005 200 450	1.2	R0.05	1.2	20	50	4
4HRR 012 001 040 445	1.2	R0.1	1.2	4	45	4
4HRR 012 001 060 445	1.2	R0.1	1.2	6	45	4
4HRR 012 001 080 445	1.2	R0.1	1.2	8	45	4
4HRR 012 001 100 450	1.2	R0.1	1.2	10	50	4

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS

4 Flutes Hard Cut Rib Corner Radius End Mills For Hardened Steels



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HRR 012 001 120 450	1.2	R0.1	1.2	12	50	4
4HRR 012 001 140 450	1.2	R0.1	1.2	14	50	4
4HRR 012 001 160 450	1.2	R0.1	1.2	16	50	4
4HRR 012 001 200 450	1.2	R0.1	1.2	20	50	4
4HRR 012 002 040 445	1.2	R0.2	1.2	4	45	4
4HRR 012 002 060 445	1.2	R0.2	1.2	6	45	4
4HRR 012 002 080 445	1.2	R0.2	1.2	8	45	4
4HRR 012 002 100 450	1.2	R0.2	1.2	10	50	4
4HRR 012 002 120 450	1.2	R0.2	1.2	12	50	4
4HRR 012 002 140 450	1.2	R0.2	1.2	14	50	4
4HRR 012 002 160 450	1.2	R0.2	1.2	16	50	4
4HRR 012 002 200 450	1.2	R0.2	1.2	20	50	4
4HRR 012 003 040 445	1.2	R0.3	1.2	4	45	4
4HRR 012 003 060 445	1.2	R0.3	1.2	6	45	4
4HRR 012 003 080 445	1.2	R0.3	1.2	8	45	4
4HRR 012 003 100 450	1.2	R0.3	1.2	10	50	4
4HRR 012 003 120 450	1.2	R0.3	1.2	12	50	4
4HRR 015 0002 060 445	1.5	R0.02	1.5	6	45	4
4HRR 015 0002 080 445	1.5	R0.02	1.5	8	45	4
4HRR 015 0002 100 450	1.5	R0.02	1.5	10	50	4
4HRR 015 0002 120 450	1.5	R0.02	1.5	12	50	4
4HRR 015 0002 140 450	1.5	R0.02	1.5	14	50	4
4HRR 015 0002 160 450	1.5	R0.02	1.5	16	50	4
4HRR 015 0002 200 450	1.5	R0.02	1.5	20	50	4
4HRR 015 0002 220 460	1.5	R0.02	1.5	22	60	4
4HRR 015 0005 060 445	1.5	R0.05	1.5	6	45	4
4HRR 015 0005 080 445	1.5	R0.05	1.5	8	45	4
4HRR 015 0005 100 450	1.5	R0.05	1.5	10	50	4
4HRR 015 0005 120 450	1.5	R0.05	1.5	12	50	4
4HRR 015 0005 140 450	1.5	R0.05	1.5	14	50	4
4HRR 015 0005 160 450	1.5	R0.05	1.5	16	50	4
4HRR 015 0005 200 450	1.5	R0.05	1.5	20	50	4
4HRR 015 0005 220 460	1.5	R0.05	1.5	22	60	4
4HRR 015 001 060 445	1.5	R0.1	1.5	6	45	4
4HRR 015 001 080 445	1.5	R0.1	1.5	8	45	4
4HRR 015 001 100 450	1.5	R0.1	1.5	10	50	4
4HRR 015 001 120 450	1.5	R0.1	1.5	12	50	4
4HRR 015 001 140 450	1.5	R0.1	1.5	14	50	4

4 Flutes Hard Cut Rib Corner Radius End Mills For Hardened Steels



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HRR 015 001 160 450	1.5	R0.1	1.5	16	50	4
4HRR 015 001 200 450	1.5	R0.1	1.5	20	50	4
4HRR 015 001 220 460	1.5	R0.1	1.5	22	60	4
4HRR 015 002 060 445	1.5	R0.2	1.5	6	45	4
4HRR 015 002 080 445	1.5	R0.2	1.5	8	45	4
4HRR 015 002 100 450	1.5	R0.2	1.5	10	50	4
4HRR 015 002 120 450	1.5	R0.2	1.5	12	50	4
4HRR 015 002 140 450	1.5	R0.2	1.5	14	50	4
4HRR 015 002 160 450	1.5	R0.2	1.5	16	50	4
4HRR 015 002 200 450	1.5	R0.2	1.5	20	50	4
4HRR 015 002 220 460	1.5	R0.2	1.5	22	60	4
4HRR 015 002 250 460	1.5	R0.2	1.5	25	60	4
4HRR 015 003 060 445	1.5	R0.3	1.5	6	45	4
4HRR 015 003 080 445	1.5	R0.3	1.5	8	45	4
4HRR 015 003 100 450	1.5	R0.3	1.5	10	50	4
4HRR 015 003 120 450	1.5	R0.3	1.5	12	50	4
4HRR 015 003 140 450	1.5	R0.3	1.5	14	50	4
4HRR 015 003 160 450	1.5	R0.3	1.5	16	50	4
4HRR 015 003 200 450	1.5	R0.3	1.5	20	50	4
4HRR 015 003 220 460	1.5	R0.3	1.5	22	60	4
4HRR 015 003 250 460	1.5	R0.3	1.5	25	60	4
4HRR 015 005 060 445	1.5	R0.5	1.5	6	45	4
4HRR 015 005 080 445	1.5	R0.5	1.5	8	45	4
4HRR 015 005 100 450	1.5	R0.5	1.5	10	50	4
4HRR 015 005 120 450	1.5	R0.5	1.5	12	50	4
4HRR 015 005 140 450	1.5	R0.5	1.5	14	50	4
4HRR 015 005 160 450	1.5	R0.5	1.5	16	50	4
4HRR 015 005 200 450	1.5	R0.5	1.5	20	50	4
4HRR 015 005 220 460	1.5	R0.5	1.5	22	60	4
4HRR 015 005 250 460	1.5	R0.5	1.5	25	60	4
4HRR 020 0002 060 445	2	R0.02	2	6	45	4
4HRR 020 0002 080 445	2	R0.02	2	8	45	4
4HRR 020 0002 100 450	2	R0.02	2	10	50	4
4HRR 020 0002 120 450	2	R0.02	2	12	50	4
4HRR 020 0002 140 450	2	R0.02	2	14	50	4
4HRR 020 0002 160 450	2	R0.02	2	16	50	4
4HRR 020 0002 200 450	2	R0.02	2	20	50	4
4HRR 020 0002 250 460	2	R0.02	2	25	60	4

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS

4 Flutes Hard Cut Rib Corner Radius End Mills For Hardened Steels



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HRR 020 0002 300 475	2	R0.02	2	30	75	4
4HRR 020 0005 060 445	2	R0.05	2	6	45	4
4HRR 020 0005 080 445	2	R0.05	2	8	45	4
4HRR 020 0005 100 450	2	R0.05	2	10	50	4
4HRR 020 0005 120 450	2	R0.05	2	12	50	4
4HRR 020 0005 140 450	2	R0.05	2	14	50	4
4HRR 020 0005 160 450	2	R0.05	2	16	50	4
4HRR 020 0005 200 450	2	R0.05	2	20	50	4
4HRR 020 0005 250 460	2	R0.05	2	25	60	4
4HRR 020 0005 300 475	2	R0.05	2	30	75	4
4HRR 020 001 060 445	2	R0.1	2	6	45	4
4HRR 020 001 080 445	2	R0.1	2	8	45	4
4HRR 020 001 100 450	2	R0.1	2	10	50	4
4HRR 020 001 120 450	2	R0.1	2	12	50	4
4HRR 020 001 140 450	2	R0.1	2	14	50	4
4HRR 020 001 160 450	2	R0.1	2	16	50	4
4HRR 020 001 200 450	2	R0.1	2	20	50	4
4HRR 020 001 250 460	2	R0.1	2	25	60	4
4HRR 020 001 300 475	2	R0.1	2	30	75	4
4HRR 020 002 060 445	2	R0.2	2	6	45	4
4HRR 020 002 080 445	2	R0.2	2	8	45	4
4HRR 020 002 100 450	2	R0.2	2	10	50	4
4HRR 020 002 120 450	2	R0.2	2	12	50	4
4HRR 020 002 140 450	2	R0.2	2	14	50	4
4HRR 020 002 160 450	2	R0.2	2	16	50	4
4HRR 020 002 200 450	2	R0.2	2	20	50	4
4HRR 020 002 250 460	2	R0.2	2	25	60	4
4HRR 020 002 300 475	2	R0.2	2	30	75	4
4HRR 020 003 060 445	2	R0.3	2	6	45	4
4HRR 020 003 080 445	2	R0.3	2	8	45	4
4HRR 020 003 100 450	2	R0.3	2	10	50	4
4HRR 020 003 120 450	2	R0.3	2	12	50	4
4HRR 020 003 140 450	2	R0.3	2	14	50	4
4HRR 020 003 160 450	2	R0.3	2	16	50	4
4HRR 020 003 200 450	2	R0.3	2	20	50	4
4HRR 020 003 250 460	2	R0.3	2	25	60	4
4HRR 020 003 300 475	2	R0.3	2	30	75	4
4HRR 020 005 060 445	2	R0.5	2	6	45	4

4 Flutes Hard Cut Rib Corner Radius End Mills For Hardened Steels



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HRR 020 005 080 445	2	R0.5	2	8	45	4
4HRR 020 005 100 450	2	R0.5	2	10	50	4
4HRR 020 005 120 450	2	R0.5	2	12	50	4
4HRR 020 005 140 450	2	R0.5	2	14	50	4
4HRR 020 005 160 450	2	R0.5	2	16	50	4
4HRR 020 005 200 450	2	R0.5	2	20	50	4
4HRR 020 005 250 460	2	R0.5	2	25	60	4
4HRR 020 005 300 475	2	R0.5	2	30	75	4
4HRR 025 001 100 450	2.5	R0.1	2.5	10	50	4
4HRR 025 001 160 450	2.5	R0.1	2.5	16	50	4
4HRR 025 001 200 450	2.5	R0.1	2.5	20	50	4
4HRR 025 001 250 460	2.5	R0.1	2.5	25	60	4
4HRR 025 001 300 475	2.5	R0.1	2.5	30	75	4
4HRR 025 002 100 450	2.5	R0.2	2.5	10	50	4
4HRR 025 002 160 450	2.5	R0.2	2.5	16	50	4
4HRR 025 002 200 450	2.5	R0.2	2.5	20	50	4
4HRR 025 002 250 460	2.5	R0.2	2.5	25	60	4
4HRR 025 002 300 475	2.5	R0.2	2.5	30	75	4
4HRR 025 003 100 450	2.5	R0.3	2.5	10	50	4
4HRR 025 003 160 450	2.5	R0.3	2.5	16	50	4
4HRR 025 003 200 450	2.5	R0.3	2.5	20	50	4
4HRR 025 003 250 460	2.5	R0.3	2.5	25	60	4
4HRR 025 003 300 475	2.5	R0.3	2.5	30	75	4
4HRR 025 005 100 450	2.5	R0.5	2.5	10	50	4
4HRR 025 005 160 450	2.5	R0.5	2.5	16	50	4
4HRR 025 005 200 450	2.5	R0.5	2.5	20	50	4
4HRR 025 005 250 460	2.5	R0.5	2.5	25	60	4
4HRR 025 005 300 475	2.5	R0.5	2.5	30	75	4
4HRR 030 001 100 650	3	R0.1	3	10	50	6
4HRR 030 001 120 650	3	R0.1	3	12	50	6
4HRR 030 001 160 650	3	R0.1	3	16	50	6
4HRR 030 001 200 660	3	R0.1	3	20	60	6
4HRR 030 001 250 660	3	R0.1	3	25	60	6
4HRR 030 001 300 675	3	R0.1	3	30	75	6
4HRR 030 001 350 675	3	R0.1	3	35	75	6
4HRR 030 001 400 675	3	R0.1	3	40	75	6
4HRR 030 001 450 6A0	3	R0.1	3	45	100	6
4HRR 030 002 100 650	3	R0.2	3	10	50	6

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS

4 Flutes Hard Cut Rib Corner Radius End Mills For Hardened Steels



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HRR 030 002 120 650	3	R0.2	3	12	50	6
4HRR 030 002 160 650	3	R0.2	3	16	50	6
4HRR 030 002 200 660	3	R0.2	3	20	60	6
4HRR 030 002 250 660	3	R0.2	3	25	60	6
4HRR 030 002 300 675	3	R0.2	3	30	75	6
4HRR 030 002 350 675	3	R0.2	3	35	75	6
4HRR 030 002 400 675	3	R0.2	3	40	75	6
4HRR 030 002 450 6A0	3	R0.2	3	45	100	6
4HRR 030 003 100 650	3	R0.3	3	10	50	6
4HRR 030 003 120 650	3	R0.3	3	12	50	6
4HRR 030 003 160 650	3	R0.3	3	16	50	6
4HRR 030 003 200 660	3	R0.3	3	20	60	6
4HRR 030 003 250 660	3	R0.3	3	25	60	6
4HRR 030 003 300 675	3	R0.3	3	30	75	6
4HRR 030 003 350 675	3	R0.3	3	35	75	6
4HRR 030 003 400 675	3	R0.3	3	40	75	6
4HRR 030 003 450 6A0	3	R0.3	3	45	100	6
4HRR 030 005 100 650	3	R0.5	3	10	50	6
4HRR 030 005 120 650	3	R0.5	3	12	50	6
4HRR 030 005 160 650	3	R0.5	3	16	50	6
4HRR 030 005 200 660	3	R0.5	3	20	60	6
4HRR 030 005 250 660	3	R0.5	3	25	60	6
4HRR 030 005 300 675	3	R0.5	3	30	75	6
4HRR 030 005 350 675	3	R0.5	3	35	75	6
4HRR 030 005 400 675	3	R0.5	3	40	75	6
4HRR 030 005 450 6A0	3	R0.5	3	45	100	6
4HRR 030 005 500 6A0	3	R0.5	3	50	100	6
4HRR 030 010 100 650	3	R1	3	10	50	6
4HRR 030 010 120 650	3	R1	3	12	50	6
4HRR 030 010 160 650	3	R1	3	16	50	6
4HRR 030 010 200 660	3	R1	3	20	60	6
4HRR 030 010 250 660	3	R1	3	25	60	6
4HRR 030 010 300 675	3	R1	3	30	75	6
4HRR 030 010 350 675	3	R1	3	35	75	6
4HRR 030 010 400 675	3	R1	3	40	75	6
4HRR 030 010 450 6A0	3	R1	3	45	100	6
4HRR 030 010 500 6A0	3	R1	3	50	100	6
4HRR 040 001 130 650	4	R0.1	4	13	50	6

4 Flutes Hard Cut Rib Corner Radius End Mills For Hardened Steels



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HRR 040 001 160 650	4	R0.1	4	16	50	6
4HRR 040 001 200 660	4	R0.1	4	20	60	6
4HRR 040 001 250 660	4	R0.1	4	25	60	6
4HRR 040 001 300 675	4	R0.1	4	30	75	6
4HRR 040 001 350 675	4	R0.1	4	35	75	6
4HRR 040 001 400 675	4	R0.1	4	40	75	6
4HRR 040 002 130 650	4	R0.2	4	13	50	6
4HRR 040 002 160 650	4	R0.2	4	16	50	6
4HRR 040 002 200 660	4	R0.2	4	20	60	6
4HRR 040 002 250 660	4	R0.2	4	25	60	6
4HRR 040 002 300 675	4	R0.2	4	30	75	6
4HRR 040 002 350 675	4	R0.2	4	35	75	6
4HRR 040 002 400 675	4	R0.2	4	40	75	6
4HRR 040 002 450 6A0	4	R0.2	4	45	100	6
4HRR 040 002 500 6A0	4	R0.2	4	50	100	6
4HRR 040 003 130 650	4	R0.3	4	13	50	6
4HRR 040 003 160 650	4	R0.3	4	16	50	6
4HRR 040 003 200 660	4	R0.3	4	20	60	6
4HRR 040 003 250 660	4	R0.3	4	25	60	6
4HRR 040 003 300 675	4	R0.3	4	30	75	6
4HRR 040 003 350 675	4	R0.3	4	35	75	6
4HRR 040 003 400 675	4	R0.3	4	40	75	6
4HRR 040 003 450 6A0	4	R0.3	4	45	100	6
4HRR 040 003 500 6A0	4	R0.3	4	50	100	6
4HRR 040 005 130 650	4	R0.5	4	13	50	6
4HRR 040 005 160 650	4	R0.5	4	16	50	6
4HRR 040 005 200 660	4	R0.5	4	20	60	6
4HRR 040 005 250 660	4	R0.5	4	25	60	6
4HRR 040 005 300 675	4	R0.5	4	30	75	6
4HRR 040 005 350 675	4	R0.5	4	35	75	6
4HRR 040 005 400 675	4	R0.5	4	40	75	6
4HRR 040 005 450 6A0	4	R0.5	4	45	100	6
4HRR 040 005 500 6A0	4	R0.5	4	50	100	6
4HRR 040 005 550 6A0	4	R0.5	4	55	100	6
4HRR 040 010 130 650	4	R1	4	13	50	6
4HRR 040 010 160 650	4	R1	4	16	50	6
4HRR 040 010 200 660	4	R1	4	20	60	6
4HRR 040 010 250 660	4	R1	4	25	60	6

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS

4 Flutes Hard Cut Rib Corner Radius End Mills For Hardened Steels



Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HRR 040 010 300 675	4	R1	4	30	75	6
4HRR 040 010 350 675	4	R1	4	35	75	6
4HRR 040 010 400 675	4	R1	4	40	75	6
4HRR 040 010 450 6A0	4	R1	4	45	100	6
4HRR 040 010 500 6A0	4	R1	4	50	100	6
4HRR 040 010 550 6A0	4	R1	4	55	100	6
4HRR 050 001 160 660	5	R0.1	5	16	60	6
4HRR 050 001 300 675	5	R0.1	5	30	75	6
4HRR 050 001 400 675	5	R0.1	5	40	75	6
4HRR 050 002 160 660	5	R0.2	5	16	60	6
4HRR 050 002 300 675	5	R0.2	5	30	75	6
4HRR 050 002 400 675	5	R0.2	5	40	75	6
4HRR 050 003 160 660	5	R0.3	5	16	60	6
4HRR 050 003 300 675	5	R0.3	5	30	75	6
4HRR 050 003 400 675	5	R0.3	5	40	75	6
4HRR 050 005 160 660	5	R0.5	5	16	60	6
4HRR 050 005 300 675	5	R0.5	5	30	75	6
4HRR 050 005 400 675	5	R0.5	5	40	75	6
4HRR 050 005 500 6A0	5	R0.5	5	50	100	6
4HRR 050 005 600 6A0	5	R0.5	5	60	100	6
4HRR 050 010 160 660	5	R1	5	16	60	6
4HRR 050 010 300 675	5	R1	5	30	75	6
4HRR 050 010 400 675	5	R1	5	40	75	6
4HRR 050 010 500 6A0	5	R1	5	50	100	6
4HRR 050 010 600 6A0	5	R1	5	60	100	6
4HRR 060 001 200 660	6	R0.1	7	20	60	6
4HRR 060 001 400 675	6	R0.1	7	40	75	6
4HRR 060 001 500 6A0	6	R0.1	7	50	100	6
4HRR 060 002 200 660	6	R0.2	7	20	60	6
4HRR 060 002 400 675	6	R0.2	7	40	75	6
4HRR 060 002 500 6A0	6	R0.2	7	50	100	6
4HRR 060 003 200 660	6	R0.3	7	20	60	6
4HRR 060 003 400 675	6	R0.3	7	40	75	6
4HRR 060 003 500 6A0	6	R0.3	7	50	100	6
4HRR 060 005 200 660	6	R0.5	7	20	60	6
4HRR 060 005 400 675	6	R0.5	7	40	75	6
4HRR 060 005 500 6A0	6	R0.5	7	50	100	6
4HRR 060 005 600 6A0	6	R0.5	7	60	100	6

4 Flutes Hard Cut Rib Corner Radius End Mills For Hardened Steels



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HRR 060 010 200 660	6	R1	7	20	60	6
4HRR 060 010 400 675	6	R1	7	40	75	6
4HRR 060 010 500 6A0	6	R1	7	50	100	6
4HRR 060 010 600 6A0	6	R1	7	60	100	6
4HRR 060 015 200 660	6	R1.5	7	20	60	6
4HRR 060 015 400 675	6	R1.5	7	40	75	6
4HRR 060 015 500 6A0	6	R1.5	7	50	100	6
4HRR 060 020 300 675	6	R2	7	30	75	6
4HRR 060 020 400 675	6	R2	7	40	75	6
4HRR 060 020 500 6A0	6	R2	7	50	100	6
4HRR 080 002 220 860	8	R0.2	9	22	60	8
4HRR 080 002 400 8A0	8	R0.2	9	40	100	8
4HRR 080 003 220 860	8	R0.3	9	22	60	8
4HRR 080 003 400 8A0	8	R0.3	9	40	100	8
4HRR 080 005 220 860	8	R0.5	9	22	60	8
4HRR 080 005 400 8A0	8	R0.5	9	40	100	8
4HRR 080 005 500 8C0	8	R0.5	9	50	120	8
4HRR 080 005 600 8C0	8	R0.5	9	60	120	8
4HRR 080 010 220 860	8	R1	9	22	60	8
4HRR 080 010 400 8A0	8	R1	9	40	100	8
4HRR 080 010 500 8C0	8	R1	9	50	120	8
4HRR 080 010 600 8C0	8	R1	9	60	120	8
4HRR 080 015 220 860	8	R1.5	9	22	60	8
4HRR 080 015 400 8A0	8	R1.5	9	40	100	8
4HRR 080 020 220 860	8	R2	9	22	60	8
4HRR 080 020 400 8A0	8	R2	9	40	100	8
4HRR 080 020 500 8C0	8	R2	9	50	120	8
4HRR 100 002 240 A75	10	R0.2	11	24	75	10
4HRR 100 002 400 AA0	10	R0.2	11	40	100	10
4HRR 100 003 240 A75	10	R0.3	11	24	75	10
4HRR 100 003 400 AA0	10	R0.3	11	40	100	10
4HRR 100 005 240 A75	10	R0.5	11	24	75	10
4HRR 100 005 400 AA0	10	R0.5	11	40	100	10
4HRR 100 005 500 AC0	10	R0.5	11	50	120	10
4HRR 100 005 600 AC0	10	R0.5	11	60	120	10
4HRR 100 010 240 A75	10	R1	11	24	75	10
4HRR 100 010 400 AA0	10	R1	11	40	100	10
4HRR 100 010 500 AC0	10	R1	11	50	120	10

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS

4 Flutes Hard Cut Rib Corner Radius End Mills For Hardened Steels



Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4HRR 100 010 600 AC0	10	R1	11	60	120	10
4HRR 100 015 240 A75	10	R1.5	11	24	75	10
4HRR 100 015 400 AA0	10	R1.5	11	40	100	10
4HRR 100 020 240 A75	10	R2	11	24	75	10
4HRR 100 020 400 AA0	10	R2	11	40	100	10
4HRR 100 020 500 AC0	10	R2	11	50	120	10
4HRR 100 025 240 A75	10	R2.5	11	24	75	10
4HRR 120 003 260 C75	12	R0.3	13	26	75	12
4HRR 120 005 260 C75	12	R0.5	13	26	75	12
4HRR 120 005 400 CA0	12	R0.5	13	40	100	12
4HRR 120 005 600 CF0	12	R0.5	13	60	150	12
4HRR 120 010 260 C75	12	R1	13	26	75	12
4HRR 120 010 400 CA0	12	R1	13	40	100	12
4HRR 120 010 600 CF0	12	R1	13	60	150	12
4HRR 120 015 260 C75	12	R1.5	13	26	75	12
4HRR 120 020 260 C75	12	R2	13	26	75	12
4HRR 120 020 400 CA0	12	R2	13	40	100	12
4HRR 120 020 600 CF0	12	R2	13	60	150	12
4HRR 120 030 260 C75	12	R3	13	26	75	12
4HRR 120 030 400 CA0	12	R3	13	40	100	12
4HRR 120 030 600 CF0	12	R3	13	60	150	12