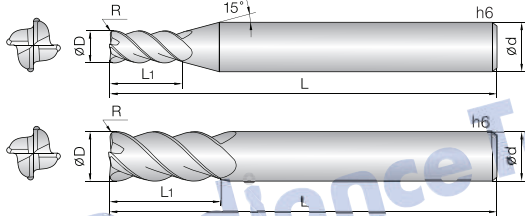


4 Flutes Wide Cut 45° Helix Corner Radius End Mills



4WHR

- 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.
- Designed for minimizing edge chipping by corner R shape.
- 45° Helix design for high speed ,feed condition.
- Various corner R and flute length for wide range application.
- Good surface finish.
- Outstanding performance at high speed machining by ultra fine (0.2µm) grade.

Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4WHR 010 0005 650	1	R0.05	2	-	50	6
4WHR 010 001 650	1	R0.1	2	-	50	6
4WHR 010 002 650	1	R0.2	2	-	50	6
4WHR 010 003 650	1	R0.3	2	-	50	6
4WHR 012 0005 650	1.2	R0.05	2.5	-	50	6
4WHR 012 001 650	1.2	R0.1	2.5	-	50	6
4WHR 012 002 650	1.2	R0.2	2.5	-	50	6
4WHR 012 003 650	1.2	R0.3	2.5	-	50	6
4WHR 015 0005 650	1.5	R0.05	3	-	50	6
4WHR 015 001 650	1.5	R0.1	3	-	50	6
4WHR 015 002 650	1.5	R0.2	3	-	50	6
4WHR 015 003 650	1.5	R0.3	3	-	50	6
4WHR 015 005 650	1.5	R0.5	3	-	50	6
4WHR 020 001 650	2	R0.1	5	-	50	6
4WHR 020 002 650	2	R0.2	5	-	50	6
4WHR 020 003 650	2	R0.3	5	-	50	6
4WHR 020 005 650	2	R0.5	5	-	50	6
4WHR 025 001 660	2.5	R0.1	6	-	60	6
4WHR 025 002 660	2.5	R0.2	6	-	60	6
4WHR 025 003 660	2.5	R0.3	6	-	60	6
4WHR 025 005 660	2.5	R0.5	6	-	60	6
4WHR 030 001 660	3	R0.1	6	-	60	6
4WHR 030 002 660	3	R0.2	6	-	60	6
4WHR 030 003 660	3	R0.3	6	-	60	6
4WHR 030 005 660	3	R0.5	6	-	60	6

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Unit(mm)

	Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
ECO-CUT	4WHR 030 010 660	3	R1	6	-	60	6
	4WHR 040 001 660	4	R0.1	8	-	60	6
WIDE-CUT	4WHR 040 002 660	4	R0.2	8	-	60	6
	4WHR 040 003 660	4	R0.3	8	-	60	6
	4WHR 040 005 660	4	R0.5	8	-	60	6
	4WHR 040 010 660	4	R1	8	-	60	6
HARD-CUT	4WHR 050 001 675	5	R0.1	10	-	75	6
	4WHR 050 002 675	5	R0.2	10	-	75	6
	4WHR 050 003 675	5	R0.3	10	-	75	6
	4WHR 050 005 675	5	R0.5	10	-	75	6
ALU-CUT	4WHR 050 010 675	5	R1	10	-	75	6
	4WHR 060 001 6A0	6	R0.1	12	-	100	6
	4WHR 060 002 6A0	6	R0.2	12	-	100	6
	4WHR 060 003 6A0	6	R0.3	12	-	100	6
D-CUT	4WHR 060 005 6A0	6	R0.5	12	-	100	6
	4WHR 060 010 6A0	6	R1	12	-	100	6
	4WHR 060 015 6A0	6	R1.5	12	-	100	6
	4WHR 060 020 6A0	6	R2	12	-	100	6
SUS CUT	4WHR 080 002 8A0	8	R0.2	16	-	100	8
	4WHR 080 003 8A0	8	R0.3	16	-	100	8
	4WHR 080 005 8A0	8	R0.5	16	-	100	8
	4WHR 080 010 8A0	8	R1	16	-	100	8
MAGIC DRILLS	4WHR 080 015 8A0	8	R1.5	16	-	100	8
	4WHR 080 020 8A0	8	R2	16	-	100	8
	4WHR 100 002 AA0	10	R0.2	20	-	100	10
	4WHR 100 003 AA0	10	R0.3	20	-	100	10
	4WHR 100 005 AA0	10	R0.5	20	-	100	10
	4WHR 100 010 AA0	10	R1	20	-	100	10
	4WHR 100 015 AA0	10	R1.5	20	-	100	10
	4WHR 100 020 AA0	10	R2	20	-	100	10
	4WHR 120 003 CA0	12	R0.3	24	-	100	12
	4WHR 120 005 CA0	12	R0.5	24	-	100	12
	4WHR 120 010 CA0	12	R1	24	-	100	12
	4WHR 120 015 CA0	12	R1.5	24	-	100	12
	4WHR 120 020 CA0	12	R2	24	-	100	12
	4WHR 120 030 CA0	12	R3	24	-	100	12
	4WHR 160 005 GA0	16	R0.5	32	-	100	16

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Unit(mm)

Model Number	Cutting Dia. D	Corner Radius R	Length Of Cut L1	Effective Length L2	Overall Length L	Shank dia d
4WHR 160 005 GC0	16	R0.5	32	-	120	16
4WHR 160 010 GA0	16	R1	32	-	100	16
4WHR 160 010 GC0	16	R1	32	-	120	16
4WHR 160 020 GC0	16	R2	32	-	120	16
4WHR 160 030 GC0	16	R3	32	-	120	16
4WHR 200 005 KA0	20	R0.5	38	-	100	20
4WHR 200 005 KF0	20	R0.5	38	-	150	20
4WHR 200 010 KA0	20	R1	38	-	100	20
4WHR 200 010 KF0	20	R1	38	-	150	20
4WHR 200 020 KF0	20	R2	38	-	150	20
4WHR 200 030 KF0	20	R3	38	-	150	20
4WHR 200 040 KF0	20	R4	38	-	150	20
4WHR 200 050 KF0	20	R5	38	-	150	20

ECO-CUT

WIDE-CUT

HARD-CUT

ALU-CUT

D-CUT

SUS CUT

MAGIC DRILLS