

- 中低硬度钢 (HRC~52) 预硬钢类、碳素钢、模具钢等, 多种材料加工铣刀
- 含硅涂层处理, 耐磨性非常优秀。
- 经济型铣刀可使加工成本大大降低。
- 采用高抗折力超微粒子、超硬合金 (0.5 $\mu$ m), 使刃部最小化。
- Endmills for various work materials (~HRC52), pre-hardened steel, carbon steel, mold steel.
- Good wear resistance by high quality Si-based PVD coating.
- Suitable shape is designed for tooling in wide areas.
- Minimize fracturing by high TRS fine(0.5 $\mu$ m) WC grade.



D Size	D Tolerance
ø0.2 ~ 5	+0 ~ -0.01mm
ø6 ~ 12	-0.005 ~ -0.015mm

单位: mm

Order Number	刃径 Diameter R x D	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d	备注	Order Number	刃径 Diameter R x D	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d	备注
2HRBE 002 005 S04	0.1R X 0.2	0.2	0.5	40	4		2HRBE 009 060 S04	0.45R X 0.9	0.9	6	45	4	
2HRBE 002 010 S04	0.1R X 0.2	0.2	1	40	4		2HRBE 009 080 S04	0.45R X 0.9	0.9	8	45	4	
2HRBE 002 015 S04	0.1R X 0.2	0.2	1.5	40	4		2HRBE 009 100 S04	0.45R X 0.9	0.9	10	50	4	
2HRBE 002 020 S04	0.1R X 0.2	0.2	2	40	4		2HRBE 010 020 S04	0.5R X 1	1	2	45	4	
2HRBE 003 010 S04	0.15R X 0.3	0.3	1	40	4		2HRBE 010 030 S04	0.5R X 1	1	3	45	4	
2HRBE 003 015 S04	0.15R X 0.3	0.3	1.5	40	4		2HRBE 010 040 S04	0.5R X 1	1	4	45	4	
2HRBE 003 020 S04	0.15R X 0.3	0.3	2	40	4		2HRBE 010 050 S04	0.5R X 1	1	5	45	4	
2HRBE 003 030 S04	0.15R X 0.3	0.3	3	40	4		2HRBE 010 060 S04	0.5R X 1	1	6	45	4	
2HRBE 003 040 S04	0.15R X 0.3	0.3	4	40	4		2HRBE 010 080 S04	0.5R X 1	1	8	45	4	
2HRBE 004 010 S04	0.2R X 0.4	0.4	1	40	4		2HRBE 010 100 S04	0.5R X 1	1	10	50	4	
2HRBE 004 020 S04	0.2R X 0.4	0.4	2	40	4		2HRBE 010 120 S04	0.5R X 1	1	12	50	4	
2HRBE 004 030 S04	0.2R X 0.4	0.4	3	40	4		2HRBE 010 140 S04	0.5R X 1	1	14	50	4	
2HRBE 004 040 S04	0.2R X 0.4	0.4	4	40	4		2HRBE 010 160 S04	0.5R X 1	1	16	50	4	
2HRBE 004 050 S04	0.2R X 0.4	0.4	5	40	4		2HRBE 010 180 S04	0.5R X 1	1	18	50	4	
2HRBE 004 060 S04	0.2R X 0.4	0.4	6	40	4		2HRBE 010 200 S04	0.5R X 1	1	20	50	4	
2HRBE 004 080 S04	0.2R X 0.4	0.4	8	40	4		2HRBE 010 220 S04	0.5R X 1	1	22	60	4	
2HRBE 005 010 S04	0.25R X 0.5	0.5	1	45	4		2HRBE 010 250 S04	0.5R X 1	1	25	60	4	
2HRBE 005 020 S04	0.25R X 0.5	0.5	2	45	4		2HRBE 012 040 S04	0.6R X 1.2	1.2	4	45	4	
2HRBE 005 030 S04	0.25R X 0.5	0.5	3	45	4		2HRBE 012 060 S04	0.6R X 1.2	1.2	6	45	4	
2HRBE 005 040 S04	0.25R X 0.5	0.5	4	45	4		2HRBE 012 080 S04	0.6R X 1.2	1.2	8	45	4	
2HRBE 005 050 S04	0.25R X 0.5	0.5	5	45	4		2HRBE 012 100 S04	0.6R X 1.2	1.2	10	50	4	
2HRBE 005 060 S04	0.25R X 0.5	0.5	6	45	4		2HRBE 012 120 S04	0.6R X 1.2	1.2	12	50	4	
2HRBE 005 080 S04	0.25R X 0.5	0.5	8	45	4		2HRBE 012 160 S04	0.6R X 1.2	1.2	16	50	4	
2HRBE 005 100 S04	0.25R X 0.5	0.5	10	45	4		2HRBE 012 200 S04	0.6R X 1.2	1.2	20	50	4	
2HRBE 005 120 S04	0.25R X 0.5	0.5	12	45	4		2HRBE 012 240 S04	0.6R X 1.2	1.2	24	60	4	
2HRBE 006 010 S04	0.3R X 0.6	0.6	1	45	4		2HRBE 014 060 S04	0.7R X 1.4	1.4	6	45	4	
2HRBE 006 020 S04	0.3R X 0.6	0.6	2	45	4		2HRBE 014 080 S04	0.7R X 1.4	1.4	8	45	4	
2HRBE 006 030 S04	0.3R X 0.6	0.6	3	45	4		2HRBE 014 120 S04	0.7R X 1.4	1.4	12	50	4	
2HRBE 006 040 S04	0.3R X 0.6	0.6	4	45	4		2HRBE 014 160 S04	0.7R X 1.4	1.4	16	50	4	
2HRBE 006 050 S04	0.3R X 0.6	0.6	5	45	4		2HRBE 015 030 S04	0.75R X 1.5	1.5	3	45	4	
2HRBE 006 060 S04	0.3R X 0.6	0.6	6	45	4		2HRBE 015 040 S04	0.75R X 1.5	1.5	4	45	4	
2HRBE 006 080 S04	0.3R X 0.6	0.6	8	45	4		2HRBE 015 060 S04	0.75R X 1.5	1.5	6	45	4	
2HRBE 006 100 S04	0.3R X 0.6	0.6	10	45	4		2HRBE 015 080 S04	0.75R X 1.5	1.5	8	45	4	
2HRBE 006 120 S04	0.3R X 0.6	0.6	12	45	4		2HRBE 015 100 S04	0.75R X 1.5	1.5	10	50	4	
2HRBE 006 140 S04	0.3R X 0.6	0.6	14	45	4		2HRBE 015 120 S04	0.75R X 1.5	1.5	12	50	4	
2HRBE 007 020 S04	0.35R X 0.7	0.7	2	45	4		2HRBE 015 140 S04	0.75R X 1.5	1.5	14	50	4	
2HRBE 007 040 S04	0.35R X 0.7	0.7	4	45	4		2HRBE 015 160 S04	0.75R X 1.5	1.5	16	50	4	
2HRBE 007 060 S04	0.35R X 0.7	0.7	6	45	4		2HRBE 015 180 S04	0.75R X 1.5	1.5	18	50	4	
2HRBE 007 080 S04	0.35R X 0.7	0.7	8	45	4		2HRBE 015 200 S04	0.75R X 1.5	1.5	20	50	4	
2HRBE 007 100 S04	0.35R X 0.7	0.7	10	45	4		2HRBE 015 220 S04	0.75R X 1.5	1.5	22	60	4	
2HRBE 007 120 S04	0.35R X 0.7	0.7	12	45	4		2HRBE 015 250 S04	0.75R X 1.5	1.5	25	60	4	
2HRBE 008 020 S04	0.4R X 0.8	0.8	2	45	4		2HRBE 015 300 S04	0.75R X 1.5	1.5	30	70	4	
2HRBE 008 030 S04	0.4R X 0.8	0.8	3	45	4		2HRBE 016 060 S04	0.8R X 1.6	1.6	6	45	4	
2HRBE 008 040 S04	0.4R X 0.8	0.8	4	45	4		2HRBE 016 080 S04	0.8R X 1.6	1.6	8	45	4	
2HRBE 008 050 S04	0.4R X 0.8	0.8	5	45	4		2HRBE 016 120 S04	0.8R X 1.6	1.6	12	50	4	
2HRBE 008 060 S04	0.4R X 0.8	0.8	6	45	4		2HRBE 016 160 S04	0.8R X 1.6	1.6	16	50	4	
2HRBE 008 080 S04	0.4R X 0.8	0.8	8	45	4		2HRBE 016 200 S04	0.8R X 1.6	1.6	20	50	4	
2HRBE 008 100 S04	0.4R X 0.8	0.8	10	45	4		2HRBE 018 060 S04	0.9R X 1.8	1.8	6	45	4	
2HRBE 008 120 S04	0.4R X 0.8	0.8	12	45	4		2HRBE 018 080 S04	0.9R X 1.8	1.8	8	45	4	
2HRBE 009 040 S04	0.45R X 0.9	0.9	4	45	4		2HRBE 018 120 S04	0.9R X 1.8	1.8	12	50	4	

单位: mm

Order Number	刃径 Diameter R x D	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d	备注	Order Number	刃径 Diameter R x D	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d	备注
2HRBE 018 160 S04	0.9R X 1.8	1.8	16	50	4		2HRBE 100 300 070	5R X 10	16	30	70	10	
2HRBE 018 200 S04	0.9R X 1.8	1.8	20	50	4		2HRBE 120 300 075	6R X 12	18	30	75	12	
2HRBE 020 040 S04	1R X 2	2	4	45	4								
2HRBE 020 060 S04	1R X 2	2	6	45	4								
2HRBE 020 080 S04	1R X 2	2	8	45	4								
2HRBE 020 100 S04	1R X 2	2	10	50	4								
2HRBE 020 120 S04	1R X 2	2	12	50	4								
2HRBE 020 140 S04	1R X 2	2	14	50	4								
2HRBE 020 160 S04	1R X 2	2	16	50	4								
2HRBE 020 180 S04	1R X 2	2	18	50	4								
2HRBE 020 200 S04	1R X 2	2	20	50	4								
2HRBE 020 220 S04	1R X 2	2	22	60	4								
2HRBE 020 250 S04	1R X 2	2	25	60	4								
2HRBE 020 300 S04	1R X 2	2	30	60	4								
2HRBE 025 080 S04	1.25R X 2.5	2.5	8	45	4								
2HRBE 025 100 S04	1.25R X 2.5	2.5	10	50	4								
2HRBE 025 120 S04	1.25R X 2.5	2.5	12	50	4								
2HRBE 025 160 S04	1.25R X 2.5	2.5	16	50	4								
2HRBE 025 200 S04	1.25R X 2.5	2.5	20	60	4								
2HRBE 025 250 S04	1.25R X 2.5	2.5	25	60	4								
2HRBE 025 300 S04	1.25R X 2.5	2.5	30	70	4								
2HRBE 030 060 S06	1.5R X 3	3	6	50	6								
2HRBE 030 080 S06	1.5R X 3	3	8	50	6								
2HRBE 030 100 S06	1.5R X 3	3	10	50	6								
2HRBE 030 120 S06	1.5R X 3	3	12	50	6								
2HRBE 030 160 S06	1.5R X 3	3	16	60	6								
2HRBE 030 200 S06	1.5R X 3	3	20	60	6								
2HRBE 030 250 S06	1.5R X 3	3	25	65	6								
2HRBE 030 300 S06	1.5R X 3	3	30	70	6								
2HRBE 030 350 S06	1.5R X 3	3	35	75	6								
2HRBE 030 400 S06	1.5R X 3	3	40	80	6								
2HRBE 030 450 S06	1.5R X 3	3	45	90	6								
2HRBE 040 080 S06	2R X 4	4	8	50	6								
2HRBE 040 100 S06	2R X 4	4	10	50	6								
2HRBE 040 120 S06	2R X 4	4	12	50	6								
2HRBE 040 160 S06	2R X 4	4	16	60	6								
2HRBE 040 200 S06	2R X 4	4	20	60	6								
2HRBE 040 250 S06	2R X 4	4	25	65	6								
2HRBE 040 300 S06	2R X 4	4	30	70	6								
2HRBE 040 350 S06	2R X 4	4	35	75	6								
2HRBE 040 400 S06	2R X 4	4	40	80	6								
2HRBE 040 450 S06	2R X 4	4	45	90	6								
2HRBE 050 160 S06	2.5R X 5	6	16	60	6								
2HRBE 050 200 S06	2.5R X 5	6	20	60	6								
2HRBE 050 250 S06	2.5R X 5	6	25	70	6								
2HRBE 050 300 S06	2.5R X 5	6	30	75	6								
2HRBE 050 400 S06	2.5R X 5	6	40	80	6								
2HRBE 050 500 S06	2.5R X 5	6	50	90	6								
2HRBE 060 150 S06	3R X 6	10	15	55	6								
2HRBE 080 250 060	4R X 8	12	25	60	8								

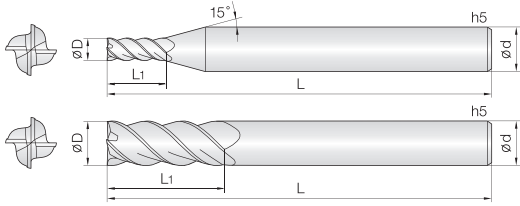








## 4刃经济型 标准型 45° 螺旋角 平头铣刀



- 中低硬度钢 (HRC~52) 预硬钢类、碳素钢、模具钢等, 多种材料加工铣刀
- 含硅涂层处理, 耐磨性非常优秀。
- 形象设计适用于多领域加工。
- 经济型铣刀可使加工成本大大降低。
- 采用高抗折力超微粒子、超硬合金 (0.5 $\mu$ m), 使刃部最小化。

### • Endmills for various work materials (~HRC52), pre-hardened steel, carbon steel, mold steel.

- Good wear resistance by high quality Si-based PVD coating.
- Suitable shape is designed for tooling in wide areas.
- 45° degree helix design for high speed, feed condition.
- Minimize fracturing by high TRS fine(0.5  $\mu$ m) WC grade.



D Size	D Tolerance
ø1 ~ 5	+0 ~ -0.01mm
ø6 ~ 12	-0.01 ~ -0.025mm
ø14 ~ 16	-0.015 ~ -0.03mm

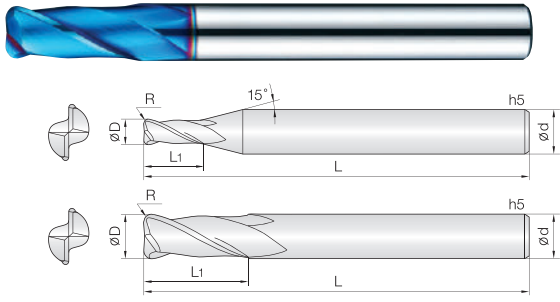
单位: mm

Order Number	刃径 Diameter D	刃长 Length of cut L1	全长 Overall Length L	柄径 Shank Dia d	备注	Order Number	刃径 Diameter D	刃长 Length of cut L1	全长 Overall Length L	柄径 Shank Dia d	备注
4HEME 010 025 S04	1	2,5	40	4							
New 4HEME 010 025 S06	1	2,5	40	6							
4HEME 010 035 S04	1	3,5	40	4							
New 4HEME 010 035 S06	1	3,5	40	6							
4HEME 012 030 S04	1,2	3	40	4							
New 4HEME 012 030 S06	1,2	3	40	6							
4HEME 015 040 S04	1,5	4	40	4							
4HEME 015 060 S04	1,5	6	40	4							
New 4HEME 015 060 S06	1,5	6	40	6							
4HEME 020 050 S04	2	5	40	4							
4HEME 020 080 S04	2	8	40	4							
New 4HEME 020 080 S06	2	8	45	6							
4HEME 030 080 S06	3	8	45	6							
4HEME 030 120 S06	3	12	50	6							
4HEME 040 110 S06	4	11	45	6							
4HEME 040 160 S06	4	16	55	6							
4HEME 050 130 S06	5	13	50	6							
4HEME 050 180 S06	5	18	60	6							
4HEME 060 130 S06	6	13	50	6							
4HEME 060 200 S06	6	20	60	6							
4HEME 080 200 S08	8	20	60	8							
4HEME 080 250 S08	8	25	70	8							
4HEME 080 300 S08	8	30	75	8							
4HEME 100 220 S10	10	22	70	10							
4HEME 100 300 S10	10	30	80	10							
4HEME 100 400 S10	10	40	90	10							
4HEME 120 260 S12	12	26	75	12							
4HEME 120 400 S12	12	40	90	12							
4HEME 120 500 S12	12	50	100	12							
4HEME 140 300 S14	14	30	80	14							
4HEME 140 500 S14	14	50	110	14							
4HEME 160 350 S16	16	35	90	16							
4HEME 160 500 S16	16	50	110	16							





### 2刃经济型 圆鼻铣刀



- 中低硬度钢 (HRC~52), 预硬钢类、碳素钢、模具钢等, 多种材料加工用铣刀
- 含硅涂层处理, 耐磨性非常优秀。
- 采用R角的形象设计, 使刃部崩刀最小化。
- 因采用R角和有效长的多样化设计, 适合各种加工条件。
- 经济型铣刀可使加工成本大大降低。
- 采用高抗折力超微粒子超硬合金(0.5μm),使刃部最小化。
- **Endmills for various work materials(~HRC52), pre-hardened steel, carbon steel, mold steel.**
- Good wear resistance by high quality Si-based PVD coating.
- Designed for minimizing edge chipping by corner R shape.
- Various corner R and overall length for wide range application.
- Maximize the manufacturing cost saving with low price of products.
- Minimize fracturing by high TRS fine(0.5 μm) WC grade.

2

WC  
미립자

BLUE  
Coating

R  
±0.005

R  
±0.01

R  
±0.015

D  
+0 -0.01

D  
-0.005 -0.015

30°  
Helix Angle

CUTTING  
DATA

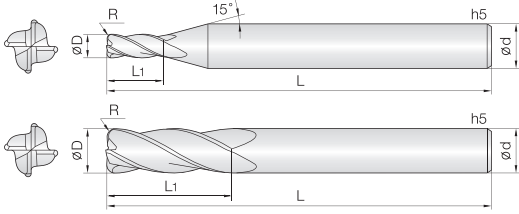
0.1 ~ 0.5R    1 ~ 1.5R    2R    ø1 ~ ø5    ø6 ~ ø12    325P

D Size	D Tolerance
ø1 ~ 5	+0 ~ -0.01mm
ø6 ~ 12	-0.005 ~ -0.015mm

单位: mm

Order Number	刃径 Diameter D×R	刃长 Length of cut L1	全长 Overall Length L	柄径 Shank Dia d	备注	Order Number	刃径 Diameter D×R	刃长 Length of cut L1	全长 Overall Length L	柄径 Shank Dia d	备注
2NCRE 010 001 S04	1 X R0.1	3	50	4		2NCRE 120 010 110	12 X R1	26	110	12	
2NCRE 010 002 S04	1 X R0.2	3	50	4		2NCRE 120 020 110	12 X R2	26	110	12	
2NCRE 010 003 S04	1 X R0.3	3	50	4							
New 2NCRE 012 001 S04	1.2 X R0.1	4	50	4							
New 2NCRE 012 002 S04	1.2 X R0.2	4	50	4							
New 2NCRE 012 003 S04	1.2 X R0.3	4	50	4							
2NCRE 015 001 S04	1.5 X R0.1	4	50	4							
2NCRE 015 002 S04	1.5 X R0.2	4	50	4							
2NCRE 015 003 S04	1.5 X R0.3	4	50	4							
2NCRE 015 005 S04	1.5 X R0.5	4	50	4							
2NCRE 020 001 S04	2 X R0.1	6	50	4							
2NCRE 020 002 S04	2 X R0.2	6	50	4							
2NCRE 020 003 S04	2 X R0.3	6	50	4							
2NCRE 020 005 S04	2 X R0.5	6	50	4							
2NCRE 025 001 S04	2.5 X R0.1	6	50	4							
2NCRE 025 002 S04	2.5 X R0.2	6	50	4							
2NCRE 025 003 S04	2.5 X R0.3	6	50	4							
2NCRE 025 005 S04	2.5 X R0.5	6	50	4							
2NCRE 030 001 S06	3 X R0.1	8	60	6							
2NCRE 030 002 S06	3 X R0.2	8	60	6							
2NCRE 030 003 S06	3 X R0.3	8	60	6							
2NCRE 030 005 S06	3 X R0.5	8	60	6							
2NCRE 030 010 S06	3 X R1	8	60	6							
2NCRE 040 001 S04	4 X R0.1	10	50	4							
2NCRE 040 001 S06	4 X R0.1	10	70	6							
2NCRE 040 002 S04	4 X R0.2	10	50	4							
2NCRE 040 002 S06	4 X R0.2	10	70	6							
2NCRE 040 003 S04	4 X R0.3	10	50	4							
2NCRE 040 003 S06	4 X R0.3	10	70	6							
2NCRE 040 005 S04	4 X R0.5	10	50	4							
2NCRE 040 005 S06	4 X R0.5	10	70	6							
2NCRE 040 010 S04	4 X R1	10	50	4							
2NCRE 040 010 S06	4 X R1	10	70	6							
2NCRE 050 001 S06	5 X R0.1	13	75	6							
2NCRE 050 002 S06	5 X R0.2	13	75	6							
2NCRE 050 003 S06	5 X R0.3	13	75	6							
2NCRE 050 005 S06	5 X R0.5	13	75	6							
2NCRE 050 010 S06	5 X R1	13	75	6							
2NCRE 060 002 080	6 X R0.2	13	80	6							
2NCRE 060 003 080	6 X R0.3	13	80	6							
2NCRE 060 005 080	6 X R0.5	13	80	6							
2NCRE 060 010 080	6 X R1	13	80	6							
2NCRE 080 003 090	8 X R0.3	19	90	8							
2NCRE 080 005 090	8 X R0.5	19	90	8							
2NCRE 080 010 090	8 X R1	19	90	8							
2NCRE 100 003 100	10 X R0.3	22	100	10							
2NCRE 100 005 100	10 X R0.5	22	100	10							
2NCRE 100 010 100	10 X R1	22	100	10							
2NCRE 120 003 110	12 X R0.3	26	110	12							
2NCRE 120 005 110	12 X R0.5	26	110	12							

### 4刃经济型 圆鼻铣刀



- 中低硬度钢 (HRC~52), 预硬钢类、碳素钢、模具钢等, 多种材料加工用铣刀
- 含硅涂层处理, 耐磨性非常优秀。
- 采用R角的形象设计, 使刃部崩刀最小化。
- 因采用R角和有效长的多样化设计, 适合各种加工条件。
- 经济型铣刀可使加工成本大大降低。
- 采用高抗折力超微粒子超硬合金(0.5 $\mu$ m),使刃部崩刀最小化。
- **Endmills for various work materials(~HRC52), pre-hardened steel, carbon steel, mold steel.**
- Good wear resistance by high quality Si-based PVD coating.
- Designed for minimizing edge chipping by corner R shape.
- Various corner R and overall length for wide range application.
- Maximize the manufacturing cost saving with low price of products.
- Minimize fracturing by high TRS fine(0.5 $\mu$ m) WC grade.

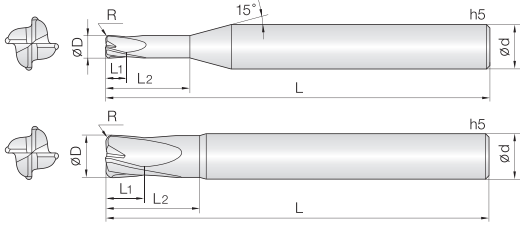


D Size	D Tolerance
ø1 ~ 5	+0 ~ -0.01mm
ø6 ~ 12	-0.005 ~ -0.015mm

单位: mm

Order Number	刃径 Diameter D×R	刃长 Length of cut L1	全长 Overall Length L	柄径 Shank Dia d	备注	Order Number	刃径 Diameter D×R	刃长 Length of cut L1	全长 Overall Length L	柄径 Shank Dia d	备注
4NCRE 010 001 S04	1 X R0.1	3	50	4		4NCRE 050 002 S06	5 X R0.2	10	50	6	
4NCRE 010 002 S04	1 X R0.2	3	50	4		4NCRE 050 002 075	5 X R0.2	13	75	6	
4NCRE 010 003 S04	1 X R0.3	3	50	4		4NCRE 050 003 S06	5 X R0.3	10	50	6	
New 4NCRE 012 001 S04	1.2 X R0.1	4	50	4		4NCRE 050 003 075	5 X R0.3	13	75	6	
New 4NCRE 012 002 S04	1.2 X R0.2	4	50	4		4NCRE 050 005 S06	5 X R0.5	10	50	6	
New 4NCRE 012 003 S04	1.2 X R0.3	4	50	4		4NCRE 050 005 075	5 X R0.5	13	75	6	
4NCRE 015 001 S04	1.5 X R0.1	4	50	4		4NCRE 050 010 S06	5 X R1	10	50	6	
4NCRE 015 002 S04	1.5 X R0.2	4	50	4		4NCRE 050 010 075	5 X R1	13	75	6	
4NCRE 015 003 S04	1.5 X R0.3	4	50	4		4NCRE 060 001 050	6 X R0.1	10	50	6	
4NCRE 015 005 S04	1.5 X R0.5	4	50	4		4NCRE 060 001 080	6 X R0.1	13	80	6	
4NCRE 020 001 S04	2 X R0.1	6	50	4		4NCRE 060 002 050	6 X R0.2	10	50	6	
4NCRE 020 002 S04	2 X R0.2	6	50	4		4NCRE 060 002 080	6 X R0.2	13	80	6	
4NCRE 020 003 S04	2 X R0.3	6	50	4		4NCRE 060 003 050	6 X R0.3	10	50	6	
4NCRE 020 005 S04	2 X R0.5	6	50	4		4NCRE 060 003 080	6 X R0.3	13	80	6	
4NCRE 025 001 S04	2.5 X R0.1	6	50	4		4NCRE 060 005 050	6 X R0.5	10	50	6	
4NCRE 025 002 S04	2.5 X R0.2	6	50	4		4NCRE 060 005 080	6 X R0.5	13	80	6	
4NCRE 025 003 S04	2.5 X R0.3	6	50	4		4NCRE 060 010 050	6 X R1	10	50	6	
4NCRE 025 005 S04	2.5 X R0.5	6	50	4		4NCRE 060 010 080	6 X R1	13	80	6	
4NCRE 030 001 S04	3 X R0.1	8	50	4		4NCRE 080 002 060	8 X R0.2	16	60	8	
4NCRE 030 001 S06	3 X R0.1	8	50	6		4NCRE 080 002 090	8 X R0.2	19	90	8	
4NCRE 030 001 060	3 X R0.1	8	60	6		4NCRE 080 003 060	8 X R0.3	16	60	8	
4NCRE 030 002 S04	3 X R0.2	8	50	4		4NCRE 080 003 090	8 X R0.3	19	90	8	
4NCRE 030 002 S06	3 X R0.2	8	50	6		4NCRE 080 005 060	8 X R0.5	16	60	8	
4NCRE 030 002 060	3 X R0.2	8	60	6		4NCRE 080 005 090	8 X R0.5	19	90	8	
4NCRE 030 003 S04	3 X R0.3	8	50	4		4NCRE 080 010 060	8 X R1	16	60	8	
4NCRE 030 003 S06	3 X R0.3	8	50	6		4NCRE 080 010 090	8 X R1	19	90	8	
4NCRE 030 003 060	3 X R0.3	8	60	6		4NCRE 080 020 060	8 X R2	16	60	8	
4NCRE 030 005 S04	3 X R0.5	8	50	4		4NCRE 080 020 090	8 X R2	19	90	8	
4NCRE 030 005 S06	3 X R0.5	8	50	6		4NCRE 100 002 075	10 X R0.2	18	75	10	
4NCRE 030 005 060	3 X R0.5	8	60	6		4NCRE 100 002 100	10 X R0.2	22	100	10	
4NCRE 030 010 S04	3 X R1	8	50	4		4NCRE 100 003 075	10 X R0.3	18	75	10	
4NCRE 030 010 S06	3 X R1	8	50	6		4NCRE 100 003 100	10 X R0.3	22	100	10	
4NCRE 030 010 060	3 X R1	8	60	6		4NCRE 100 005 075	10 X R0.5	18	75	10	
4NCRE 040 001 S04	4 X R0.1	10	50	4		4NCRE 100 005 100	10 X R0.5	22	100	10	
4NCRE 040 001 S06	4 X R0.1	10	50	6		4NCRE 100 010 075	10 X R1	18	75	10	
4NCRE 040 001 070	4 X R0.1	10	70	6		4NCRE 100 010 100	10 X R1	22	100	10	
4NCRE 040 002 S04	4 X R0.2	10	50	4		4NCRE 100 020 075	10 X R2	18	75	10	
4NCRE 040 002 S06	4 X R0.2	10	50	6		4NCRE 100 020 100	10 X R2	22	100	10	
4NCRE 040 002 070	4 X R0.2	10	70	6		4NCRE 120 002 075	12 X R0.2	22	75	12	
4NCRE 040 003 S04	4 X R0.3	10	50	4		4NCRE 120 002 110	12 X R0.2	26	110	12	
4NCRE 040 003 S06	4 X R0.3	10	50	6		4NCRE 120 003 075	12 X R0.3	22	75	12	
4NCRE 040 003 070	4 X R0.3	10	70	6		4NCRE 120 003 110	12 X R0.3	26	110	12	
4NCRE 040 005 S04	4 X R0.5	10	50	4		4NCRE 120 005 075	12 X R0.5	22	75	12	
4NCRE 040 005 S06	4 X R0.5	10	50	6		4NCRE 120 005 110	12 X R0.5	26	110	12	
4NCRE 040 005 070	4 X R0.5	10	70	6		4NCRE 120 010 075	12 X R1	22	75	12	
4NCRE 040 010 S04	4 X R1	10	50	4		4NCRE 120 010 110	12 X R1	26	110	12	
4NCRE 040 010 S06	4 X R1	10	50	6		4NCRE 120 020 075	12 X R2	22	75	12	
4NCRE 040 010 070	4 X R1	10	70	6		4NCRE 120 020 110	12 X R2	26	110	12	
4NCRE 050 001 S06	5 X R0.1	10	50	6							
4NCRE 050 001 075	5 X R0.1	13	75	6							

## 4刃经济型 高速大进给 圆鼻铣刀



• **中低硬度钢 (HRC~52), 预硬钢类高精加工用铣刀**

- 含硅涂层处理, 耐磨性非常优秀。
- 低RPM条件下, 可实现大进给作业。
- 中加工或粗加工时, 作业效率极大化。
- 采用高抗折力超微粒子超硬合金, 高速加工时, 防止崩刀。

• **Endmills for various work materials(~HRc52), pre-hardened steel, carbon steel, mold steel.**

- Good wear resistance by high quality Si-based PVD coating.
- Designed for low speed with high feed condition.
- Suitable for heavy duty and roughing application.
- Minimize fracturing at high feed by high TRS ultra fine WC grade.

4

WC  
미립자

BLUE  
Coating

R  
±0.005

R  
±0.01

R  
±0.015

D  
+0-0.01

D  
-0.005-0.015

15°  
Helix Angle

CUTTING  
DATA

0.2 ~ 0.5R    1 ~ 1.5R    2 ~ 3R    Ø1 ~ Ø5    Ø6 ~ Ø12    326P

D Size	D Tolerance
Ø1 ~ 5	+0 ~ -0.01mm
Ø6 ~ 12	-0.005 ~ -0.015mm

单位: mm

Order Number	刃径 Diameter D×R	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d	备注	Order Number	刃径 Diameter D×R	刃长 Length of cut L1	有效长 Effective Length L2	全长 Overall Length L	柄径 Shank Dia d	备注
4RCUE 010 002 025	1 X R0.2	0.75	2.5	50	4								
4RCUE 015 005 040	1.5 X R0.5	1.2	4	50	4								
4RCUE 020 005 060	2 X R0.5	1.5	6	50	6								
4RCUE 030 005 080	3 X R0.5	2.3	8	50	6								
4RCUE 040 005 120	4 X R0.5	3	12	60	6								
4RCUE 040 005 160	4 X R0.5	3	16	60	6								
4RCUE 040 010 120	4 X R1	3	12	60	6								
4RCUE 040 010 160	4 X R1	3	16	60	6								
4RCUE 050 005 150	5 X R0.5	4	15	60	6								
4RCUE 050 010 150	5 X R1	4	15	60	6								
4RCUE 060 005 150	6 X R0.5	4.5	15	60	6								
4RCUE 060 005 250	6 X R0.5	4.5	25	80	6								
4RCUE 060 010 150	6 X R1	4.5	15	60	6								
4RCUE 060 010 250	6 X R1	4.5	25	80	6								
4RCUE 060 015 150	6 X R1.5	4.5	15	60	6								
4RCUE 060 015 250	6 X R1.5	4.5	25	80	6								
4RCUE 080 005 200	8 X R0.5	6	20	60	8								
4RCUE 080 005 300	8 X R0.5	6	30	90	8								
4RCUE 080 010 200	8 X R1	6	20	60	8								
4RCUE 080 010 300	8 X R1	6	30	90	8								
4RCUE 080 020 200	8 X R2	6	20	60	8								
4RCUE 080 020 300	8 X R2	6	30	90	8								
4RCUE 100 005 250	10 X R0.5	7.5	25	70	10								
4RCUE 100 005 400	10 X R0.5	7.5	40	100	10								
4RCUE 100 010 250	10 X R1	7.5	25	70	10								
4RCUE 100 010 400	10 X R1	7.5	40	100	10								
4RCUE 100 020 250	10 X R2	7.5	25	70	10								
4RCUE 100 020 400	10 X R2	7.5	40	100	10								
4RCUE 120 005 300	12 X R0.5	9	30	80	12								
4RCUE 120 005 400	12 X R0.5	9	40	100	12								
4RCUE 120 010 300	12 X R1	9	30	80	12								
4RCUE 120 010 400	12 X R1	9	40	100	12								
4RCUE 120 020 300	12 X R2	9	30	80	12								
4RCUE 120 020 400	12 X R2	9	40	100	12								
4RCUE 120 030 300	12 X R3	9	30	80	12								