



- 중저경도강(HRc52이하), 프리하드강 계열, 탄소강, 금형강 등 가공
- JCRO 코팅 처리하여 넓은 영역의 피삭재 가공에 적합합니다.
- 고정밀 공차 적용으로 초정밀 가공에 적합합니다.
- 코너R 형상을 날부치핑이 적도록 설계하였습니다.
- 다양한 코너R과 유효장으로 맞춤 가공이 가능합니다.
- 항절력이 높은 미립자 초경합금(0.5µm)을 채택, 엔드밀의 파손을 최소화

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

- Optimum for various work materials by JCRO coating.
- High precise edge tolerance.
- Designed 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.



R0.05 ~ 0.5 R1 ~ 1.5 R2 ~ 4 462P

Condition	D Size	D Tolerance
ØD ≠ Ød	Ø1 ~ 16	+0 ~ -0.01mm

Condition	D Size	D Tolerance
ØD = Ød	Ø4 ~ 12	-0.005 ~ -0.015mm
	Ø12.1 ~ 25	-0.01 ~ -0.02mm

단위 : mm

Order Number	날경 Diameter D×R	날장 Length of cut L1	전장 Overall Length L	샙크 Shank Dia d	비고	Order Number	날경 Diameter D×R	날장 Length of cut L1	전장 Overall Length L	샙크 Shank Dia d	비고
4NCRG 010 0005 S04	1 X R0.05	2.5	45	4		4NCRG 060 005 080	6 X R0.5	13	80	6	
4NCRG 010 001 S04	1 X R0.1	2.5	45	4		4NCRG 060 010 060	6 X R1	11	60	6	
4NCRG 010 002 S04	1 X R0.2	2.5	45	4		4NCRG 060 010 080	6 X R1	13	80	6	
4NCRG 010 003 S04	1 X R0.3	2.5	45	4		4NCRG 060 015 060	6 X R1.5	11	60	6	
4NCRG 015 0005 S04	1.5 X R0.05	4	45	4		4NCRG 060 015 080	6 X R1.5	13	80	6	
4NCRG 015 001 S04	1.5 X R0.1	4	45	4		4NCRG 060 020 060	6 X R2	11	60	6	
4NCRG 015 002 S04	1.5 X R0.2	4	45	4		4NCRG 060 020 080	6 X R2	13	80	6	
4NCRG 015 003 S04	1.5 X R0.3	4	45	4		4NCRG 080 001 070	8 X R0.1	16	70	8	
4NCRG 015 005 S04	1.5 X R0.5	4	45	4		4NCRG 080 001 090	8 X R0.1	19	90	8	
4NCRG 020 0005 S04	2 X R0.05	6	45	4		4NCRG 080 002 070	8 X R0.2	16	70	8	
4NCRG 020 001 S04	2 X R0.1	6	45	4		4NCRG 080 002 090	8 X R0.2	19	90	8	
4NCRG 020 002 S04	2 X R0.2	6	45	4		4NCRG 080 003 070	8 X R0.3	16	70	8	
4NCRG 020 003 S04	2 X R0.3	6	45	4		4NCRG 080 003 090	8 X R0.3	19	90	8	
4NCRG 020 005 S04	2 X R0.5	6	45	4		4NCRG 080 005 070	8 X R0.5	16	70	8	
4NCRG 025 001 S04	2.5 X R0.1	6	50	4		4NCRG 080 005 090	8 X R0.5	19	90	8	
4NCRG 025 002 S04	2.5 X R0.2	6	50	4		4NCRG 080 005 110	8 X R0.5	19	110	8	
4NCRG 025 003 S04	2.5 X R0.3	6	50	4		4NCRG 080 010 070	8 X R1	16	70	8	
4NCRG 025 005 S04	2.5 X R0.5	6	50	4		4NCRG 080 010 090	8 X R1	19	90	8	
4NCRG 030 001 S06	3 X R0.1	8	60	6		4NCRG 080 010 110	8 X R1	19	110	8	
4NCRG 030 002 S06	3 X R0.2	8	60	6		4NCRG 080 015 070	8 X R1.5	16	70	8	
4NCRG 030 003 S06	3 X R0.3	8	60	6		4NCRG 080 015 090	8 X R1.5	19	90	8	
4NCRG 030 005 S06	3 X R0.5	8	60	6		4NCRG 080 015 110	8 X R1.5	19	110	8	
4NCRG 030 010 S06	3 X R1	8	60	6		4NCRG 080 020 070	8 X R2	16	70	8	
4NCRG 040 001 060	4 X R0.1	9	60	4		4NCRG 080 020 090	8 X R2	19	90	8	
4NCRG 040 001 080	4 X R0.1	9	80	4		4NCRG 080 020 110	8 X R2	19	110	8	
4NCRG 040 001 S06	4 X R0.1	10	70	6		4NCRG 080 025 090	8 X R2.5	19	90	8	
4NCRG 040 002 060	4 X R0.2	9	60	4		4NCRG 100 001 075	10 X R0.1	19	75	10	
4NCRG 040 002 080	4 X R0.2	9	80	4		4NCRG 100 001 100	10 X R0.1	22	100	10	
4NCRG 040 002 S06	4 X R0.2	10	70	6		4NCRG 100 002 075	10 X R0.2	19	75	10	
4NCRG 040 003 060	4 X R0.3	9	60	4		4NCRG 100 002 100	10 X R0.2	22	100	10	
4NCRG 040 003 080	4 X R0.3	9	80	4		4NCRG 100 003 075	10 X R0.3	19	75	10	
4NCRG 040 003 S06	4 X R0.3	10	70	6		4NCRG 100 003 100	10 X R0.3	22	100	10	
4NCRG 040 005 060	4 X R0.5	9	60	4		4NCRG 100 005 075	10 X R0.5	19	75	10	
4NCRG 040 005 080	4 X R0.5	9	80	4		4NCRG 100 005 100	10 X R0.5	22	100	10	
4NCRG 040 005 S06	4 X R0.5	10	70	6		4NCRG 100 005 120	10 X R0.5	22	120	10	
4NCRG 040 010 060	4 X R1	9	60	4		4NCRG 100 010 075	10 X R1	19	75	10	
4NCRG 040 010 080	4 X R1	9	80	4		4NCRG 100 010 100	10 X R1	22	100	10	
4NCRG 040 010 S06	4 X R1	10	70	6		4NCRG 100 010 120	10 X R1	22	120	10	
4NCRG 050 001 S06	5 X R0.1	13	75	6		4NCRG 100 015 075	10 X R1.5	19	75	10	
4NCRG 050 002 S06	5 X R0.2	13	75	6		4NCRG 100 015 100	10 X R1.5	22	100	10	
4NCRG 050 003 S06	5 X R0.3	13	75	6		4NCRG 100 015 120	10 X R1.5	22	120	10	
4NCRG 050 005 S06	5 X R0.5	13	75	6		4NCRG 100 020 075	10 X R2	19	75	10	
4NCRG 050 010 S06	5 X R1	13	75	6		4NCRG 100 020 100	10 X R2	22	100	10	
4NCRG 060 001 060	6 X R0.1	11	60	6		4NCRG 100 020 120	10 X R2	22	120	10	
4NCRG 060 001 080	6 X R0.1	13	80	6		4NCRG 100 025 075	10 X R2.5	19	75	10	
4NCRG 060 002 060	6 X R0.2	11	60	6		4NCRG 100 025 100	10 X R2.5	22	100	10	
4NCRG 060 002 080	6 X R0.2	13	80	6		4NCRG 100 025 120	10 X R2.5	22	120	10	
4NCRG 060 003 060	6 X R0.3	11	60	6		4NCRG 100 030 100	10 X R3	22	100	10	
4NCRG 060 003 080	6 X R0.3	13	80	6		4NCRG 120 002 080	12 X R0.2	22	80	12	
4NCRG 060 005 060	6 X R0.5	11	60	6		4NCRG 120 002 110	12 X R0.2	26	110	12	