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LOW
Price

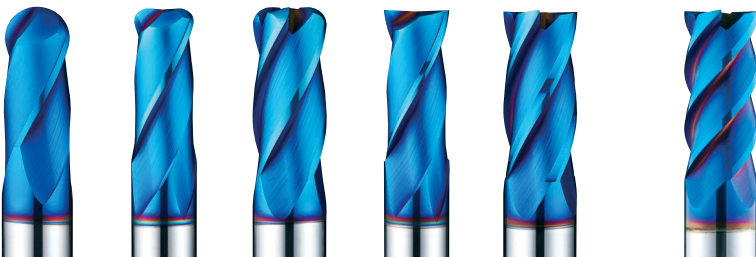
HIGH
Performance



BLUE
coating



E-SERIES



LOW Price **HIGH Performance**



E series for heavy cuts

HRc52

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.
- Maximize the manufacturing cost saving with low price of products.
- Minimize fracturing by high TRS fine(0.5 μ m) WC grade.

2HRBE 2HCBE 2HCEE 4HCEE
4HEME 3NSE 4NSE 2NCRE
4NCRE 4RCUE

In 2015 Smart Tools UK Ltd and JJ Tools undertook a strategic alliance, resulting in Smart Tools securing sole distribution rights for the UK.

Joint collaboration with customers is key to our success, by gaining a clear understanding of your needs; we ensure you are kept informed of the latest developments in tooling technology that are critical to staying ahead of the curve.

Call one of the team today on 01245 260414 to discuss how Smart Tools can improve your tooling solutions while reducing costs and ensure a robust supply chain.



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LOW Price
HIGH Performance

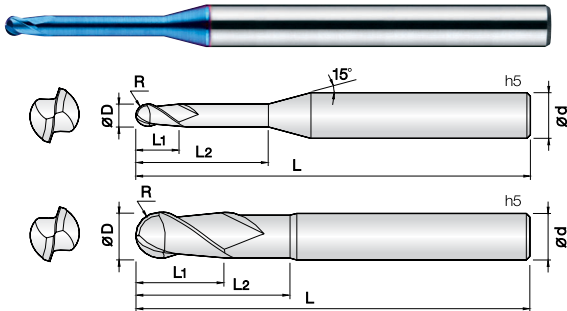


E-SERIES

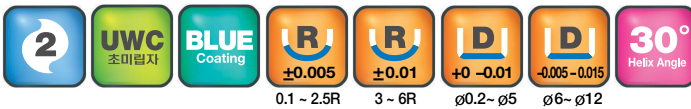
2HRBE 2HCBE 2HCCE 4HCCE 4HEME
3NSE 4NSE 2NCRE 4NCRE 4RCUE

2HRBE

2 Flutes Rib Ball End Mills for Heavy Cuts



- 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 μm) WC grade.



: mm

Order Number	Diameter R X D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	Order Number	Diameter R X D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2HRBE 002 005 S04	0.1R X 0.2	0.2	0.5	40	4	2HRBE 005 040 S04	0.25R X 0.5	0.5	4	45	4
2HRBE 002 010 S04	0.1R X 0.2	0.2	1	40	4	2HRBE 005 050 S04	0.25R X 0.5	0.5	5	45	4
2HRBE 002 015 S04	0.1R X 0.2	0.2	1.5	40	4	2HRBE 005 060 S04	0.25R X 0.5	0.5	6	45	4
2HRBE 002 020 S04	0.1R X 0.2	0.2	2	40	4	2HRBE 005 080 S04	0.25R X 0.5	0.5	8	45	4
2HRBE 003 010 S04	0.15R X 0.3	0.3	1	40	4	2HRBE 005 100 S04	0.25R X 0.5	0.5	10	45	4
2HRBE 003 015 S04	0.15R X 0.3	0.3	1.5	40	4	2HRBE 005 120 S04	0.25R X 0.5	0.5	12	45	4
2HRBE 003 020 S04	0.15R X 0.3	0.3	2	40	4	2HRBE 006 010 S04	0.3R X 0.6	0.6	1	45	4
2HRBE 003 030 S04	0.15R X 0.3	0.3	3	40	4	2HRBE 006 020 S04	0.3R X 0.6	0.6	2	45	4
2HRBE 003 040 S04	0.15R X 0.3	0.3	4	40	4	2HRBE 006 030 S04	0.3R X 0.6	0.6	3	45	4
2HRBE 004 010 S04	0.2R X 0.4	0.4	1	40	4	2HRBE 006 040 S04	0.3R X 0.6	0.6	4	45	4
2HRBE 004 020 S04	0.2R X 0.4	0.4	2	40	4	2HRBE 006 050 S04	0.3R X 0.6	0.6	5	45	4
2HRBE 004 030 S04	0.2R X 0.4	0.4	3	40	4	2HRBE 006 060 S04	0.3R X 0.6	0.6	6	45	4
2HRBE 004 040 S04	0.2R X 0.4	0.4	4	40	4	2HRBE 006 080 S04	0.3R X 0.6	0.6	8	45	4
2HRBE 004 050 S04	0.2R X 0.4	0.4	5	40	4	2HRBE 006 100 S04	0.3R X 0.6	0.6	10	45	4
2HRBE 004 060 S04	0.2R X 0.4	0.4	6	40	4	2HRBE 006 120 S04	0.3R X 0.6	0.6	12	45	4
2HRBE 004 080 S04	0.2R X 0.4	0.4	8	40	4	2HRBE 006 140 S04	0.3R X 0.6	0.6	14	45	4
2HRBE 005 010 S04	0.25R X 0.5	0.5	1	45	4	2HRBE 007 020 S04	0.35R X 0.7	0.7	2	45	4
2HRBE 005 020 S04	0.25R X 0.5	0.5	2	45	4	2HRBE 007 040 S04	0.35R X 0.7	0.7	4	45	4
2HRBE 005 030 S04	0.25R X 0.5	0.5	3	45	4	2HRBE 007 060 S04	0.35R X 0.7	0.7	6	45	4



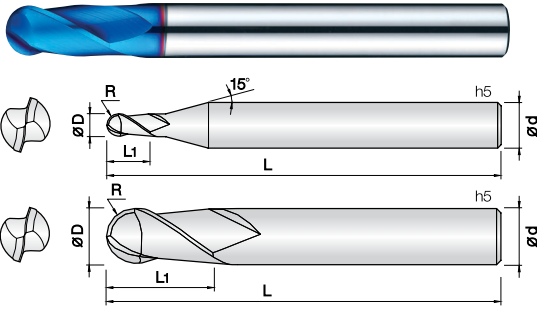
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- Endmills for various work materials (~HRC52), prehardened steel, carbon steel, mold steel.

- Good wear resistance by high quality Si-based PVD coating.
- Suitable shape is designed for tooling in wide areas.
- Maximize the manufacturing cost saving with low price of products.
- Minimize fracturing by high TRS fine(0.5 μm) WC grade.



0.1 - 2.5R

3 - 6R

8R

ø0.2 - ø5

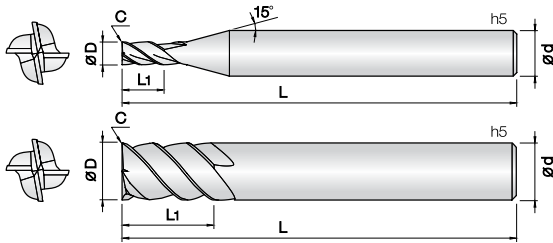
ø6 - ø12

ø16

: mm

Order Number	Diameter R x D	Length of cut L1	Overall Length L	Shank Dia d
2HCBE 002 004 S04	0.1R X 0.2	0.4	40	4
2HCBE 003 006 S04	0.15R X 0.3	0.6	40	4
2HCBE 004 008 S04	0.2R X 0.4	0.8	40	4
2HCBE 005 010 S04	0.25R X 0.5	1	45	4
2HCBE 006 012 S04	0.3R X 0.6	1.2	45	4
2HCBE 007 014 S04	0.35R X 0.7	1.4	45	4
2HCBE 008 016 S04	0.4R X 0.8	1.6	45	4
2HCBE 009 018 S04	0.45R X 0.9	1.8	45	4
2HCBE 010 025 S04	0.5R X 1	2.5	50	4
2HCBE 010 025 S06	0.5R X 1	2.5	50	6
2HCBE 012 030 S04	0.6R X 1.2	3	50	4
2HCBE 015 040 S04	0.75R X 1.5	4	50	4
2HCBE 015 040 S06	0.75R X 1.5	4	50	6
2HCBE 020 050 S04	1R X 2	5	50	4
2HCBE 020 050 S06	1R X 2	5	50	6
2HCBE 025 050 S04	1.25R X 2.5	5	50	4
2HCBE 025 050 S06	1.25R X 2.5	5	50	6
2HCBE 030 060 S04	1.5R X 3	6	50	4
2HCBE 030 060 S06	1.5R X 3	6	50	6
2HCBE 030 060 060	1.5R X 3	6	60	6
2HCBE 040 080 S04	2R X 4	8	50	4
2HCBE 040 080 080	2R X 4	8	80	4
2HCBE 040 080 S06	2R X 4	8	50	6
2HCBE 040 080 070	2R X 4	8	70	6
2HCBE 050 100 S06	2.5R X 5	10	50	6
2HCBE 050 120 S06	2.5R X 5	12	80	6
2HCBE 060 100 050	3R X 6	10	50	6
2HCBE 060 100 060	3R X 6	10	60	6
2HCBE 060 120 080	3R X 6	12	80	6
2HCBE 060 120 100	3R X 6	12	100	6
2HCBE 080 120 060	4R X 8	12	60	8
2HCBE 080 140 080	4R X 8	14	80	8
2HCBE 080 140 100	4R X 8	14	100	8
2HCBE 100 150 075	5R X 10	15	75	10
2HCBE 100 180 100	5R X 10	18	100	10
2HCBE 120 180 080	6R X 12	18	80	12
2HCBE 120 220 110	6R X 12	22	110	12
2HCBE 160 300 110	8R X 16	30	110	16





- Endmills for various work materials (~HRC52), pre-hardened steel, carbon steel, mold steel, SUS, Ti/Ni-base alloy, Inconel.
- Good wear resistance by high quality Si-based PVD coating.
- Minimize chattering by unequal flute spacing design.
- Minimize fracturing by high TRS fine(0.5 μm) WC grade.



ø1~ø5

ø6~ø12

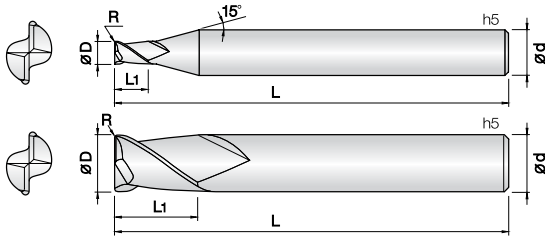
ø16~ø20

Shield Edge

: mm

Order Number	Diameter D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
4NSE 010 025 S04	1	2.5	-	45	4
4NSE 010 040 S04	1	2.5	4	45	4
4NSE 012 030 S04	1.2	3	-	45	4
4NSE 012 050 S04	1.2	3	5	45	4
4NSE 015 040 S04	1.5	4	-	45	4
4NSE 015 060 S04	1.5	4	6	45	4
4NSE 020 060 S04	2	6	-	45	4
4NSE 020 100 S04	2	6	10	45	4
4NSE 025 070 S04	2.5	7	-	45	4
4NSE 025 100 S04	2.5	7	10	45	4
4NSE 030 080 S06	3	8	-	50	6
4NSE 030 100 S06	3	10	-	50	6
4NSE 030 120 S06	3	8	12	50	6
4NSE 040 100 S06	4	10	-	50	6
4NSE 040 120 S06	4	12	-	50	6
4NSE 040 160 S06	4	10	16	50	6
4NSE 050 120 S06	5	12	-	55	6
4NSE 050 160 S06	5	16	-	55	6
4NSE 050 200 S06	5	12	20	55	6
4NSE 060 130 S06	6	13	-	55	6
4NSE 060 180 S06	6	18	-	55	6
4NSE 060 210 055	6	13	21	55	6
4NSE 080 200 S08	8	20	-	60	8
4NSE 080 250 S08	8	25	-	70	8
4NSE 080 270 070	8	20	27	70	8
4NSE 100 250 S10	10	25	-	70	10
4NSE 100 300 S10	10	30	-	75	10
4NSE 100 320 075	10	25	32	75	10
4NSE 120 260 S12	12	26	-	75	12
4NSE 120 300 S12	12	30	-	80	12
4NSE 120 380 080	12	26	38	80	12
4NSE 160 450 S16	16	35	45	90	16
4NSE 200 520 S20	20	40	52	100	20





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

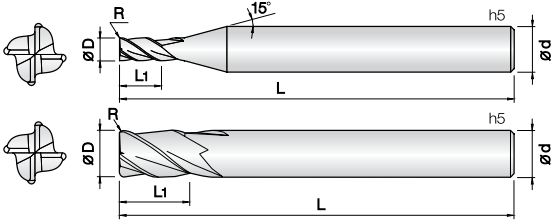
- Good wear resistance by high quality Si-based PVD coating.
- Designed for minimizing edge chipping by corner R shape.
- Various corner R and overall length for wide range application.
- Maximize the manufacturing cost saving with low price of products.
- Minimize fracturing by high TRS fine(0.5 μm) WC grade.



: mm

Order Number	Diameter D x R	Length of cut L1	Overall Length L	Shank Dia d
2NCRE 010 001 S04	1 X R0.1	3	50	4
2NCRE 010 002 S04	1 X R0.2	3	50	4
2NCRE 010 003 S04	1 X R0.3	3	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
2NCRE 120 010 110	12 X R1	26	110	12
2NCRE 120 020 110	12 X R2	26	110	12





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

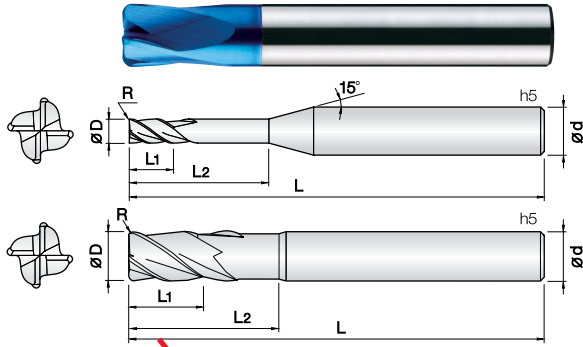
- Good wear resistance by high quality Si-based PVD coating.
- Designed for minimizing edge chipping by corner R shape.
- Various corner R and overall length for wide range application.
- Maximize the manufacturing cost saving with low price of products.
- Minimize fracturing by high TRS fine(0.5 μ m) WC grade.



: mm

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





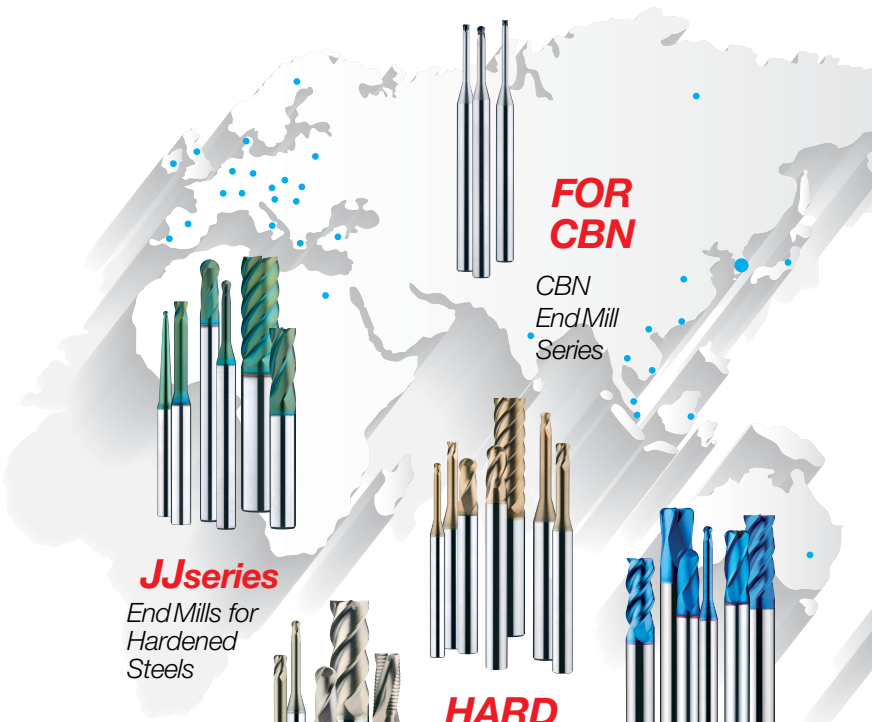
- Endmills for various work materials (~HRC52), pre-hardened steel, carbon steel, mold steel.
- Good wear resistance by high quality Si-based PVD coating.
- Designed for low speed with high feed condition.
- Suitable for heavy duty and roughing application.
- Minimize fracturing at high feed by high TRS ultra fine WC grade.



: mm

Order Number	Diameter D x R	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
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	100	8
4RCUE 080 010 200	8 X R1	6	20	60	8
4RCUE 080 010 300	8 X R1	6	30	100	8
4RCUE 080 020 200	8 X R2	6	20	60	8
4RCUE 080 020 300	8 X R2	6	30	100	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





**FOR
CBN**

CBN
EndMill
Series

Jseries

End Mills for
Hardened
Steels



**HARD
series**

High Speed
End Mill Series

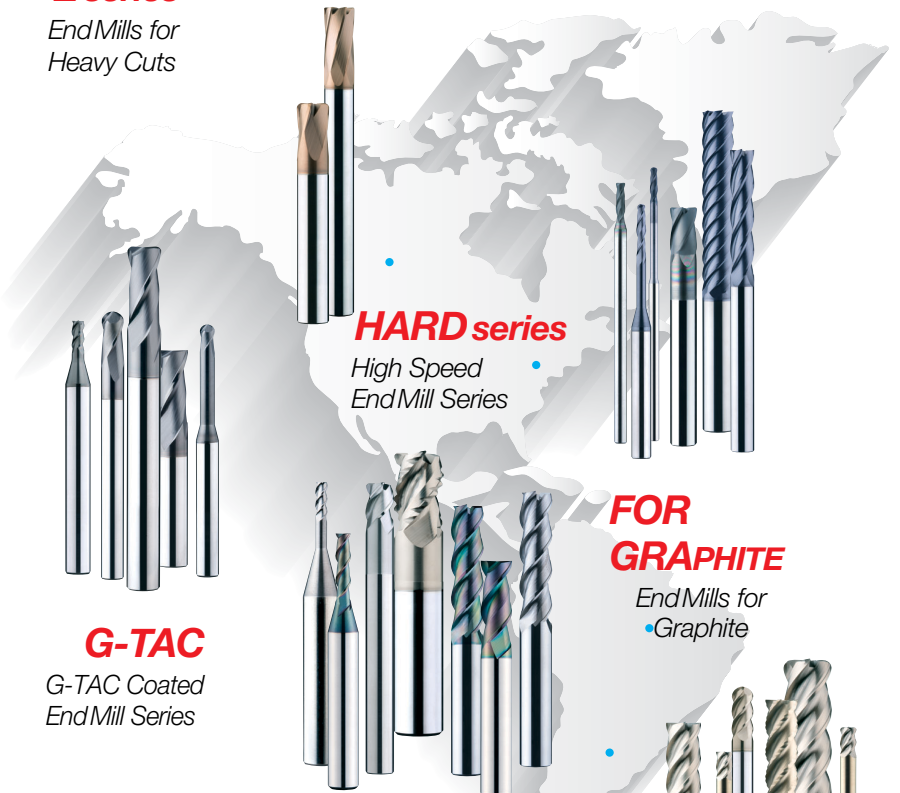


E series

End Mills for
Heavy Cuts

Gseries

End Mills for
General
purpose



HARD series

High Speed
End Mill Series

**FOR
GRAPHITE**

End Mills for
• Graphite

G-TAC

G-TAC Coated
End Mill Series



**FOR
ALUMINUM**

End Mills for
Aluminum



**FOR
SUS**

End Mills
for SUS

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