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LOW
Price
HIGH
Performance

FTS - SERIES



LOW Price

HIGH Performance
JCRO-TISIN

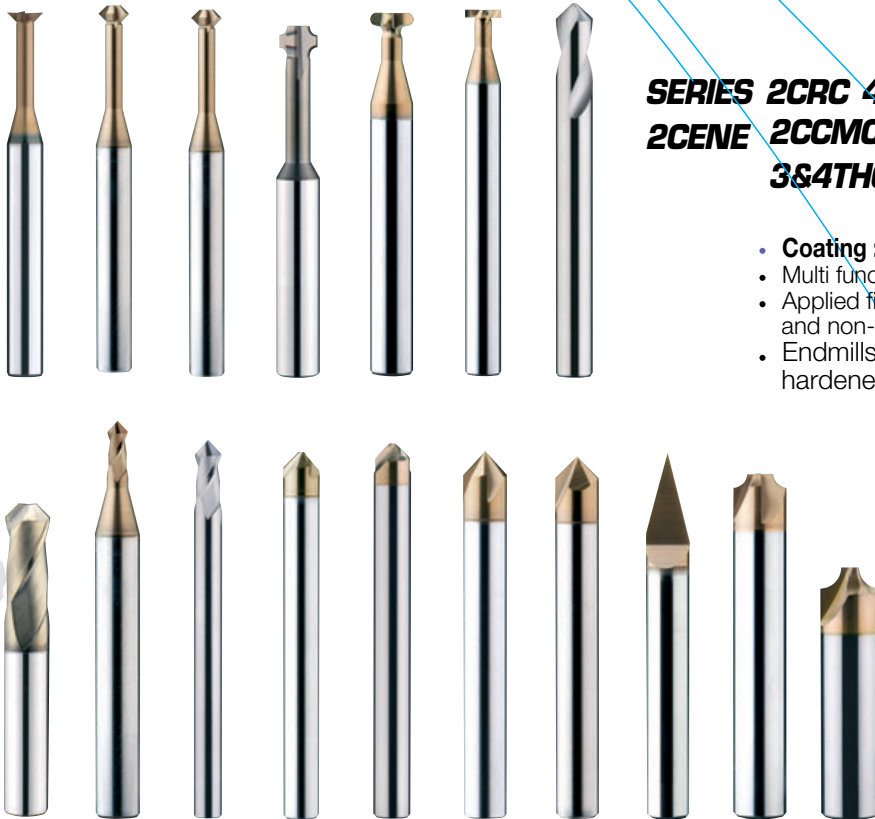
coating

FTS-SERIES

End Mills for various Materials

**SERIES 2CRC 4CRC 1STE 2STE 2CHA 3CHA 2CEN
2CENE 2CCMC 2SPO 4TES 4TRS 3TRC 4&6TDA
3&4THC 3&6TAC**

- **Coating : Pre-hardened steel, Cast iron, Non-metallic materials**
- Multi function endmill for corner chamfering, side wall and centering.
- Applied fine WC grade optimized for various non-ferrous and non-metallic work materials.
- Endmills for various work materials, hardened steel, pre-hardened steel, tool steel and cast iron. (HRc ~50)



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.

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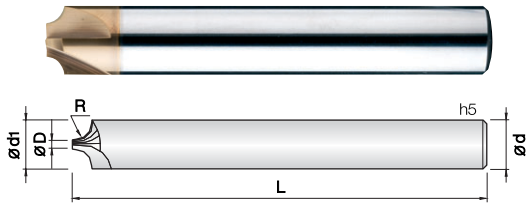


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4CRC 4 Flutes Corner Rounding Cutter



- Endmills for various work materials, hardened steel, pre-hardened steel, tool steel and cast iron.
- Good wear resistance by Si-based PVD coating.
- High precise edge tolerance.
- Very nice work surface finish.
- Minimize fracturing at high feed by high TRS fine WC grade.



0.5 ~ 2.5R 3 ~ 6R

D Size	D Tolerance
Ø1.4 ~ 5.9	+0 ~ -0.02mm

: mm

Order Number	Diameter D×R	Length of cut d1	Overall Length L	Shank Dia d	Order Number	Diameter D×R	Length of cut d1	Overall Length L	Shank Dia d
4CRC 029 005 S04	2.9 X R0.5	4	50	4	4CRC 039 020 S08	3.9 X R2	8	60	8
4CRC 024 0075 S04	2.4 X R0.75	4	50	4	4CRC 059 020 S10	5.9 X R2	10	70	10
4CRC 019 010 S04	1.9 X R1	4	50	4	4CRC 049 025 S10	4.9 X R2.5	10	70	10
4CRC 044 005 S06	4.4 X R0.5	6	50	6	4CRC 039 030 S10	3.9 X R3	10	70	10
4CRC 044 0075 S06	4.4 X R0.75	6	50	6	4CRC 059 030 S12	5.9 X R3	12	75	12
4CRC 039 010 S06	3.9 X R1	6	50	6	4CRC 039 040 S12	3.9 X R4	12	75	12
4CRC 059 010 S08	5.9 X R1	8	60	8	4CRC 059 050 S16	5.9 X R5	16	80	16
4CRC 049 015 S08	4.9 X R1.5	8	60	8	4CRC 039 060 S16	3.9 X R6	16	80	16
4CRC 039 020 S08	3.9 X R2	8	60	8					
4CRC 059 020 S10	5.9 X R2	10	70	10					
4CRC 049 025 S10	4.9 X R2.5	10	70	10					
4CRC 039 030 S10	3.9 X R3	10	70	10					
4CRC 059 030 S12	5.9 X R3	12	75	12					
4CRC 039 040 S12	3.9 X R4	12	75	12					
4CRC 059 050 S16	5.9 X R5	16	80	16					
4CRC 039 060 S16	3.9 X R6	16	80	16					



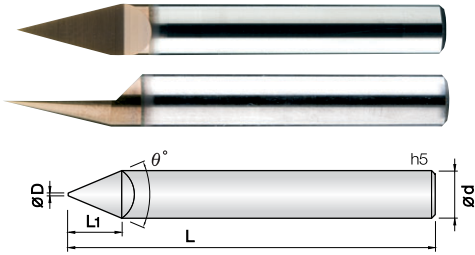
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- Endmills for various work materials, hardened steel, pre-hardened steel, tool steel and cast iron.
- Good wear resistance by Si-based PVD coating.
- Optimum for NC engraving by straight type one edge.
- Maximize engraving efficiency by various edge diameter.

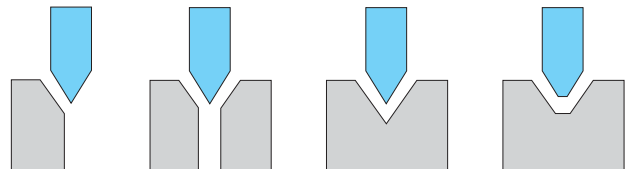


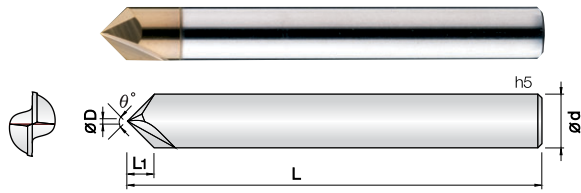
D Size	D Tolerance
∅0	+0.05~ -0mm
∅0.1 ~ 0.2	+0~ -0.02mm

mm

Order Number	Diameter D	Angle θ	of cut L1	Length L	Dia d	Order Number	Diameter D	Angle θ	of cut L1	Length L	Dia d
1STE 000 200 S04	0	20°	5	40	4	1STE 002 300 S06	0.2	30°	5	50	6
1STE 000 300 S04	0	30°	5	40	4	New 1STE 002 900 S06	0.2	90°	2.9	50	6
New 1STE 000 900 S04	0	90°	2	40	4	New 1STE 002 1200 S06	0.2	120°	1.67	50	6
1STE 000 200 S06	0	20°	5	50	6						
1STE 000 300 S06	0	30°	5	50	6						
New 1STE 000 900 S06	0	90°	3	50	6						
New 1STE 000 1200 S06	0	120°	1.73	50	6						
New 1STE 0005 200 S04	0.05	20°	5	40	4						
New 1STE 0005 300 S04	0.05	30°	5	40	4						
New 1STE 0005 900 S04	0.05	90°	1.97	40	4						
New 1STE 0005 200 S06	0.05	20°	5	50	6						
New 1STE 0005 300 S06	0.05	30°	5	50	6						
New 1STE 0005 900 S06	0.05	90°	2.97	50	6						
New 1STE 0005 1200 S06	0.05	120°	1.71	50	6						
1STE 001 200 S04	0.1	20°	5	40	4						
1STE 001 300 S04	0.1	30°	5	40	4						
New 1STE 001 900 S04	0.1	90°	1.95	40	4						
1STE 001 200 S06	0.1	20°	5	50	6						
1STE 001 300 S06	0.1	30°	5	50	6						
New 1STE 001 900 S06	0.1	90°	2.95	50	6						
New 1STE 001 1200 S06	0.1	120°	1.7	50	6						
1STE 0015 200 S04	0.15	20°	5	40	4						
1STE 0015 300 S04	0.15	30°	5	40	4						
New 1STE 0015 900 S04	0.15	90°	1.92	40	4						
1STE 0015 200 S06	0.15	20°	5	50	6						
1STE 0015 300 S06	0.15	30°	5	50	6						
New 1STE 0015 900 S06	0.15	90°	2.92	50	6						
New 1STE 0015 1200 S06	0.15	120°	1.68	50	6						
1STE 002 200 S04	0.2	20°	5	40	4						
1STE 002 300 S04	0.2	30°	5	40	4						
New 1STE 002 900 S04	0.2	90°	1.9	40	4						
1STE 002 200 S06	0.2	20°	5	50	6						

Available Cutting Shape





- Endmills for various work materials, hardened steel, pre-hardened steel, tool steel and cast iron.
- Good wear resistance by Si-based PVD coating.
- Optimum for NC engraving, chamfering and centering with straight 2flutes.
- Resin, plastic machining applicable with coated or non coated endmill.

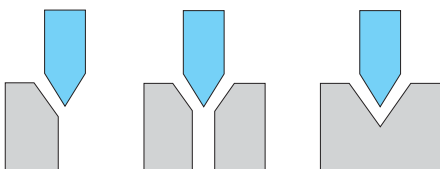


D Size	D Tolerance
∅D	+0.05~ -0mm

: mm

Order Number		Diameter	Angle	Length of cut	Overall Length	Shank Dia		
Non coated	Coated	D	θ	L1	L	d	Non coated	Coated
2STE 000 300 S03	2STEC 000 300 S03	0	30°	5.5	60	3		
2STE 000 600 S03	2STEC 000 600 S03	0	60°	2.5	60	3		
2STE 000 900 S03	2STEC 000 900 S03	0	90°	1.5	60	3		
	New 2STEC 000 900 080	0	90°	1.5	80	3		
New 2STE 000 1200 S03	New 2STEC 000 1200 S03	0	120°	0.86	60	3		
2STE 000 300 S04	2STEC 000 300 S04	0	30°	7.4	60	4		
2STE 000 600 S04	2STEC 000 600 S04	0	60°	3.4	60	4		
2STE 000 900 S04	2STEC 000 900 S04	0	90°	2	60	4		
	New 2STEC 000 900 100	0	90°	2	100	4		
New 2STE 000 1200 S04	New 2STEC 000 1200 S04	0	120°	1.15	60	4		
2STE 000 300 S06	2STEC 000 300 S06	0	30°	11.1	60	6		
2STE 000 600 S06	2STEC 000 600 S06	0	60°	5.1	60	6		
2STE 000 900 S06	2STEC 000 900 S06	0	90°	3	60	6		
	New 2STEC 000 900 110	0	90°	3	110	6		
New 2STE 000 1200 S06	New 2STEC 000 1200 S06	0	120°	1.73	60	6		
2STE 000 600 S08	2STEC 000 600 S08	0	60°	6.9	65	8		
2STE 000 900 S08	2STEC 000 900 S08	0	90°	4	65	8		
	New 2STEC 000 900 120	0	90°	4	120	8		
New 2STE 000 1200 S08	New 2STEC 000 1200 S08	0	120°	2.3	65	8		
2STE 000 600 S10	2STEC 000 600 S10	0	60°	8.6	70	10		
2STE 000 900 S10	2STEC 000 900 S10	0	90°	5	70	10		
	New 2STEC 000 900 150	0	90°	5	150	10		
New 2STE 000 1200 S10	New 2STEC 000 1200 S10	0	120°	2.88	70	10		
2STE 000 600 S12	2STEC 000 600 S12	0	60°	10.3	75	12		
2STE 000 900 S12	2STEC 000 900 S12	0	90°	6	75	12		
	New 2STEC 000 900 160	0	90°	6	160	12		
New 2STE 000 1200 S12	New 2STEC 000 1200 S12	0	120°	3.46	75	12		

Available Cutting Shape



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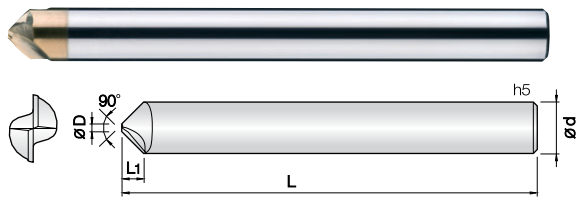


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2CHA 2 Flutes 90° Chamfering Cutter



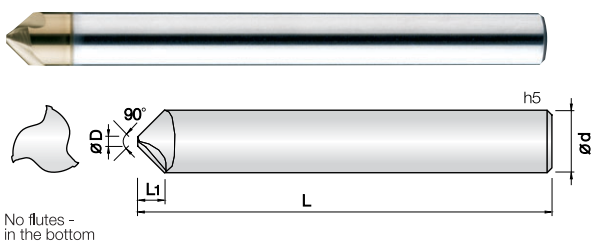
- Endmills for various work materials, hardened steel, pre-hardened steel, tool steel and cast iron.
- Good wear resistance by Si-based PVD coating.
- Applied helix 2flutes design for better performance in corner chamfering.
- Minimize fracturing at high feed by high TRS fine WC grade.



D Size	D Tolerance
ø0.8 ~ 1	+0 ~ -0.02mm

Order Number	Diameter D	Angle θ	Length of cut L1	Overall Length L	Shank Dia d												
2CHA 008 900 011	0.8	90°	1.1	50	3												
2CHA 008 900 016	0.8	90°	1.6	50	4												
2CHA 010 900 025	1	90°	2.5	60	6												
2CHA 010 900 035	1	90°	3.5	70	8												
2CHA 010 900 045	1	90°	4.5	80	10												
2CHA 010 900 055	1	90°	5.5	90	12												

3CHA 3 Flutes 90° Chamfering Cutter



- Endmills for various work materials, hardened steel, pre-hardened steel, tool steel and cast iron.
- Good wear resistance by Si-based PVD coating.
- Applied helix 3flutes design for better performance in corner chamfering.
- Minimize fracturing at high feed by high TRS fine WC grade.



D Size	D Tolerance
ø0.8 ~ 2	+0 ~ -0.02mm

Order Number	Diameter D	Angle θ	Length of cut L1	Overall Length L	Shank Dia d												
3CHA 008 900 011	0.8	90°	1.1	50	3												
3CHA 008 900 016	0.8	90°	1.6	50	4												
3CHA 010 900 025	1	90°	2.5	60	6												
3CHA 010 900 035	1	90°	3.5	65	8												
3CHA 020 900 045	2	90°	4.5	75	10												
3CHA 020 900 055	2	90°	5.5	80	12												



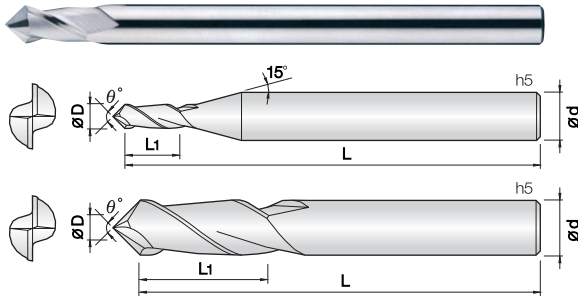
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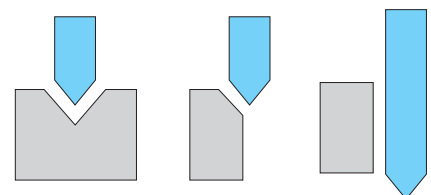
- **Non coating : Acryl, A.B.S, Aluminum, non-ferrous and non-metallic materials.**
- **Coating : Pre-hardened steel, Cast iron, Non-metallic materials**
- Multi function endmill for corner chamfering, side wall and centering.
- Applied fine WC grade optimized for various non-ferrous and non-metallic work materials.
- Endmills for various work materials, hardened steel, pre-hardened steel, tool steel and cast iron.

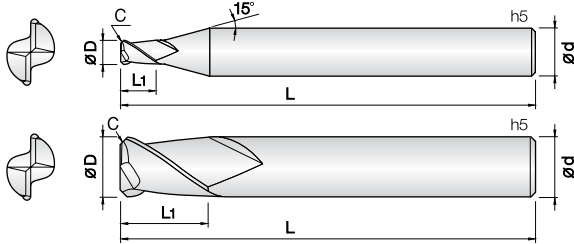


: mm

Order Number		Diameter D	Angle θ	Length of cut L1	Overall Length L	Shank Dia d	Coating	
Non coated	Coated						Non coated	Coated
2CEN 003 600 S03	2CENC 003 600 S03	0.3	60°	0.6	45	3		
2CEN 003 900 S03	2CENC 003 900 S03	0.3	90°	0.6	45	3		
2CEN 005 600 S03	2CENC 005 600 S03	0.5	60°	1	50	3		
2CEN 005 900 S03	2CENC 005 900 S03	0.5	90°	1	50	3		
2CEN 008 600 S03	2CENC 008 600 S03	0.8	60°	1.6	50	3		
2CEN 008 900 S03	2CENC 008 900 S03	0.8	90°	1.6	50	3		
2CEN 010 600 S03	2CENC 010 600 S03	1	60°	2	50	3		
2CEN 010 900 S03	2CENC 010 900 S03	1	90°	2	50	3		
2CEN 020 600 S03	2CENC 020 600 S03	2	60°	4	50	3		
2CEN 020 900 S03	2CENC 020 900 S03	2	90°	4	50	3		
2CEN 030 600 S03	2CENC 030 600 S03	3	60°	6	50	3		
2CEN 030 900 S03	2CENC 030 900 S03	3	90°	6	50	3		
2CEN 030 600 S06	2CENC 030 600 S06	3	60°	6	50	6		
2CEN 030 900 S06	2CENC 030 900 S06	3	90°	6	50	6		
2CEN 040 600 S06	2CENC 040 600 S06	4	60°	8	50	6		
2CEN 040 900 S06	2CENC 040 900 S06	4	90°	8	50	6		
2CEN 050 600 S06	2CENC 050 600 S06	5	60°	10	50	6		
2CEN 050 900 S06	2CENC 050 900 S06	5	90°	10	50	6		
2CEN 060 600 S06	2CENC 060 600 S06	6	60°	12	60	6		
2CEN 060 900 S06	2CENC 060 900 S06	6	90°	12	60	6		
2CEN 080 600 S08	2CENC 080 600 S08	8	60°	16	70	8		
2CEN 080 900 S08	2CENC 080 900 S08	8	90°	16	70	8		
2CEN 100 600 S10	2CENC 100 600 S10	10	60°	18	70	10		
2CEN 100 900 S10	2CENC 100 900 S10	10	90°	18	70	10		
2CEN 120 600 S12	2CENC 120 600 S12	12	60°	20	75	12		
2CEN 120 900 S12	2CENC 120 900 S12	12	90°	20	75	12		
2CEN 140 600 S14	2CENC 140 600 S14	14	60°	26	80	14		
2CEN 140 900 S14	2CENC 140 900 S14	14	90°	26	80	14		
2CEN 160 600 S16	2CENC 160 600 S16	16	60°	32	100	16		
2CEN 160 900 S16	2CENC 160 900 S16	16	90°	32	100	16		

Available Cutting Shape





- **Pre-hardened steel, Cast iron, Non-metallic materials**
- Multi function endmill for corner chamfering, side wall.
- Applied fine WC grade optimized for various non-ferrous and non-metallic work materials.
- JCRO coating provides wear resistance improvement as well as avoid edge stress in various applications.
- Endmills for various work materials.

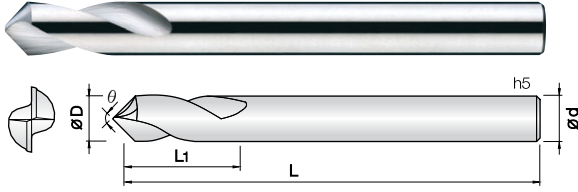


D Size	D Tolerance
ø1 ~ 5	+0 ~ -0.01mm
ø6 ~ 12	-0.01 ~ -0.025mm

: mm

Order Number	Diameter D	Chamfer C	Length of cut L1	Overall Length L	Shank Dia d
2CCMC 010 0002 S04	1	0.02	2.5	45	4
2CCMC 010 0005 S04	1	0.05	2.5	45	4
2CCMC 010 001 S04	1	0.1	2.5	45	4
2CCMC 010 002 S04	1	0.2	2.5	45	4
2CCMC 010 003 S04	1	0.3	2.5	45	4
2CCMC 015 0005 S04	1.5	0.05	4	45	4
2CCMC 015 001 S04	1.5	0.1	4	45	4
2CCMC 015 002 S04	1.5	0.2	4	45	4
2CCMC 015 003 S04	1.5	0.3	4	45	4
2CCMC 015 005 S04	1.5	0.5	4	45	4
2CCMC 020 0005 S04	2	0.05	6	45	4
2CCMC 020 001 S04	2	0.1	6	45	4
2CCMC 020 002 S04	2	0.2	6	45	4
2CCMC 020 003 S04	2	0.3	6	45	4
2CCMC 020 004 S04	2	0.4	6	45	4
2CCMC 020 005 S04	2	0.5	6	45	4
2CCMC 030 0005 S06	3	0.05	8	50	6
2CCMC 030 001 S06	3	0.1	8	50	6
2CCMC 030 002 S06	3	0.2	8	50	6
2CCMC 030 003 S06	3	0.3	8	50	6
2CCMC 030 005 S06	3	0.5	8	50	6
2CCMC 030 010 S06	3	1	8	50	6
2CCMC 040 0005 S06	4	0.05	11	50	6
2CCMC 040 001 S06	4	0.1	11	50	6
2CCMC 040 002 S06	4	0.2	11	50	6
2CCMC 040 003 S06	4	0.3	11	50	6
2CCMC 040 005 S06	4	0.5	11	50	6
2CCMC 040 010 S06	4	1	11	50	6
2CCMC 040 015 S06	4	1.5	11	50	6
2CCMC 050 001 S06	5	0.1	13	60	6
2CCMC 050 002 S06	5	0.2	13	60	6
2CCMC 050 005 S06	5	0.5	13	60	6
2CCMC 050 010 S06	5	1	13	60	6
2CCMC 050 015 S06	5	1.5	13	60	6
2CCMC 050 020 S06	5	2	13	60	6
2CCMC 060 0005 S06	6	0.05	13	60	6
2CCMC 060 001 S06	6	0.1	13	60	6
2CCMC 060 002 S06	6	0.2	13	60	6
2CCMC 060 003 S06	6	0.3	13	60	6
2CCMC 060 005 S06	6	0.5	13	60	6
2CCMC 060 010 S06	6	1	13	60	6
2CCMC 060 015 S06	6	1.5	13	60	6
2CCMC 060 020 S06	6	2	13	60	6
2CCMC 060 025 S06	6	2.5	13	60	6
2CCMC 080 001 S08	8	0.1	19	70	8
2CCMC 080 002 S08	8	0.2	19	70	8
2CCMC 080 005 S08	8	0.5	19	70	8
2CCMC 080 010 S08	8	1	19	70	8





- Endmills for various work materials, hardened steel, pre-hardened steel, tool steel and cast iron.
- Good wear resistance by Si-based PVD coating.
- Optimum for centering with helix 2flutes.
- Resin, plastic machining applicable with coated or non coated endmill.
- Applied fine WC grade optimized for various non-ferrous and non-metallic work materials.

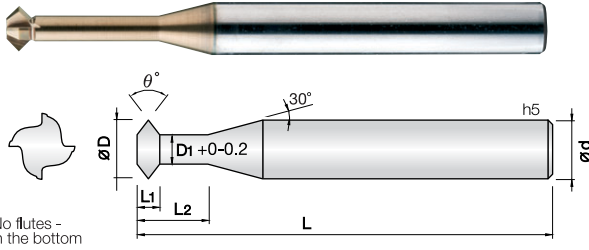


D Size	D Tolerance
ø2 ~ 5	+0 ~ -0.01mm
ø6 ~ 12	-0.01 ~ -0.025mm
ø16	-0.015 ~ -0.03mm

: mm

Order Number		Diameter	Angle	Length of cut	Overall Length	Shank Dia		
Non coated	Coated	D	θ	L1	L	d	Non coated	Coated
New 2SPO 003 090 040	New 2SPOC 003 090 040	0.3	90°	0.9	40	3		
New 2SPO 005 090 040	New 2SPOC 005 090 040	0.5	90°	1.5	40	3		
New 2SPO 008 090 040	New 2SPOC 008 090 040	0.8	90°	2.4	40	3		
2SPO 010 090 050	2SPOC 010 090 050	1	90°	3	50	3		
	New 2SPOC 010 090 080	1	90°	3	80	3		
2SPO 010 120 050	2SPOC 010 120 050	1	120°	3	50	3		
New 2SPO 015 090 050	New 2SPOC 015 090 050	1.5	90°	4.5	50	3		
2SPO 020 090 050	2SPOC 020 090 050	2	90°	6	50	3		
	New 2SPOC 020 090 080	2	90°	6	80	3		
2SPO 020 120 050	2SPOC 020 120 050	2	120°	6	50	3		
2SPO 030 090 050	2SPOC 030 090 050	3	90°	10	50	3		
2SPO 030 120 050	2SPOC 030 120 050	3	120°	10	50	3		
2SPO 030 090 100	2SPOC 030 090 100	3	90°	10	100	3		
2SPO 030 120 100	2SPOC 030 120 100	3	120°	10	100	3		
2SPO 040 090 050	2SPOC 040 090 050	4	90°	12	50	4		
2SPO 040 120 050	2SPOC 040 120 050	4	120°	12	50	4		
2SPO 040 090 100	2SPOC 040 090 100	4	90°	12	100	4		
2SPO 040 120 100	2SPOC 040 120 100	4	120°	12	100	4		
2SPO 060 090 070	2SPOC 060 090 070	6	90°	15	70	6		
2SPO 060 120 070	2SPOC 060 120 070	6	120°	15	70	6		
2SPO 060 090 110	2SPOC 060 090 110	6	90°	15	110	6		
	New 2SPOC 060 090 150	6	90°	15	150	6		
2SPO 060 120 110	2SPOC 060 120 110	6	120°	15	110	6		
2SPO 080 090 080	2SPOC 080 090 080	8	90°	25	80	8		
	New 2SPOC 080 090 150	8	90°	25	150	8		
2SPO 080 120 080	2SPOC 080 120 080	8	120°	25	80	8		
2SPO 100 090 090	2SPOC 100 090 090	10	90°	25	90	10		
2SPO 100 120 090	2SPOC 100 120 090	10	120°	25	90	10		
2SPO 100 090 150	2SPOC 100 090 150	10	90°	25	150	10		
2SPO 100 120 150	2SPOC 100 120 150	10	120°	25	150	10		
2SPO 120 090 090	2SPOC 120 090 090	12	90°	30	90	12		
2SPO 120 120 090	2SPOC 120 120 090	12	120°	30	90	12		
2SPO 120 090 150	2SPOC 120 090 150	12	90°	30	150	12		
2SPO 120 120 150	2SPOC 120 120 150	12	120°	30	150	12		
2SPO 160 090 110	2SPOC 160 090 110	16	90°	35	110	16		
2SPO 160 120 110	2SPOC 160 120 110	16	120°	35	110	16		





- Endmills for various work materials, hardened steel, pre-hardened steel, tool steel and cast iron.
- JCRO coating provides wear resistance improvement as well as avoid edge stress in various applications.
- Minimize edge chipping by applying straight 4flutes design.
- Various shapes and length provides optimum efficiency.

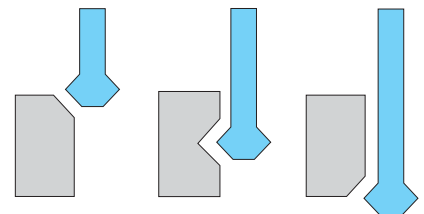


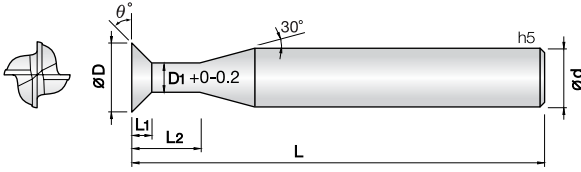
D Size	D Tolerance
ø1.5 ~ 5	+0 ~ -0.02mm
ø6 ~ 12	-0.01 ~ -0.03mm

: mm

Order Number	Diameter D	Angle θ	Length of cut L1	Effective Length L2	Neck Diameter D1	Overall Length L	Shank Dia d
4TDA 015 600 030	1.5	60°	0.43	3	0.75	45	4
4TDA 015 900 030	1.5	90°	0.75	3	0.75	45	4
4TDA 020 600 050	2	60°	0.57	5	1	50	4
4TDA 020 900 050	2	90°	1	5	1	50	4
4TDA 025 600 060	2.5	60°	0.75	6	1.2	50	4
4TDA 025 900 060	2.5	90°	1.3	6	1.2	50	4
4TDA 030 600 075	3	60°	0.86	7.5	1.5	50	4
New 4TDA 030 600 120	3	60°	0.86	12	1.5	50	4
4TDA 030 900 075	3	90°	1.5	7.5	1.5	50	4
New 4TDA 030 900 120	3	90°	1.5	12	1.5	50	4
4TDA 040 600 100	4	60°	1.15	10	2	50	4
New 4TDA 040 600 160	4	60°	1.15	16	2	50	4
4TDA 040 900 100	4	90°	2	10	2	50	4
New 4TDA 040 900 160	4	90°	2	16	2	50	4
4TDA 050 600 125	5	60°	1.44	12.5	2.5	60	6
New 4TDA 050 600 200	5	60°	1.44	20	2.5	60	6
4TDA 050 900 125	5	90°	2.4	12.5	2.5	60	6
New 4TDA 050 900 200	5	90°	2.4	20	2.5	60	6
4TDA 060 600 150	6	60°	1.73	15	3	60	6
New 4TDA 060 600 250	6	60°	1.73	25	3	60	6
4TDA 060 900 150	6	90°	2.8	15	3	60	6
New 4TDA 060 900 250	6	90°	2.8	25	3	60	6
6TDA 080 600 200	8	60°	2.3	20	4	70	8
New 6TDA 080 600 280	8	60°	2.3	28	4	70	8
6TDA 080 900 200	8	90°	3.8	20	4	70	8
New 6TDA 080 900 280	8	90°	3.8	28	4	70	8
6TDA 100 600 250	10	60°	2.8	25	5	75	10
New 6TDA 100 600 350	10	60°	2.8	35	5	75	10
6TDA 100 900 250	10	90°	4.8	25	6	80	10
New 6TDA 100 900 350	10	90°	4.8	35	6	80	10
6TDA 120 600 300	12	60°	3.4	30	6	80	12
New 6TDA 120 600 420	12	60°	3.4	42	6	80	12
6TDA 120 900 300	12	90°	5.8	30	6	80	12
New 6TDA 120 900 420	12	90°	5.8	42	6	80	12

Available Cutting Shape





- Endmills for various work materials, hardened steel, pre-hardened steel, tool steel and cast iron.
- JCRO coating provides wear resistance improvement as well as avoid edge stress in various applications.
- Minimize edge chipping by applying straight 4flutes design.
- Various shapes and length provides optimum efficiency.

4

6

WC
미립자

JCRO
Coating

D
+0 -0.02

D
-0.01 -0.03

L1
±0.03

L1
±0.05

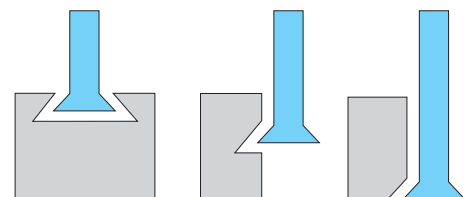
0°
Helix Angle

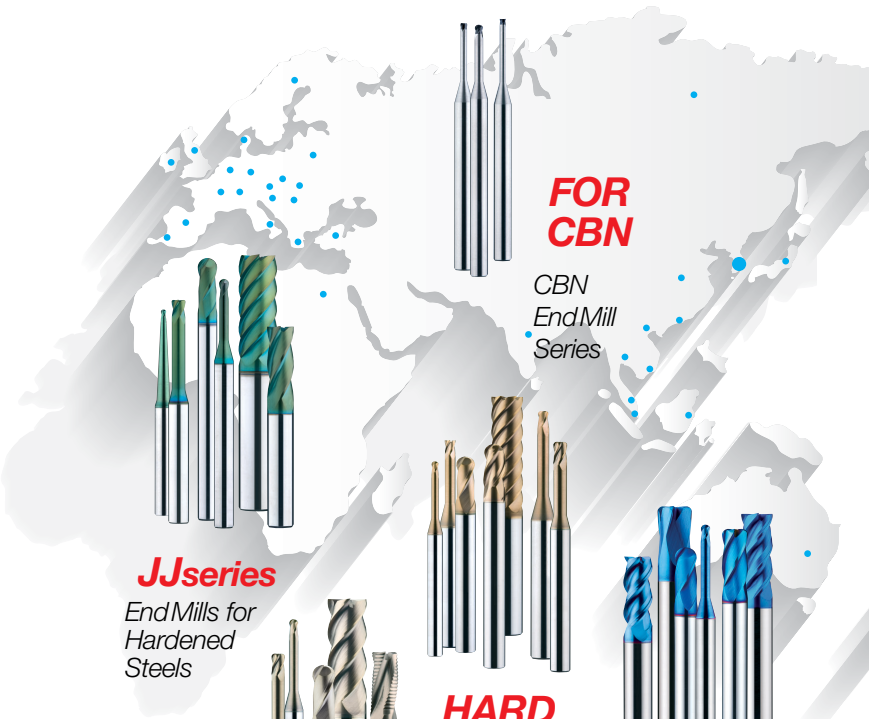
D Size	D Tolerance
ø1.5 ~ 5	+0 ~ -0.02mm
ø6 ~ 12	-0.01 ~ -0.03mm

: mm

Order Number	Diameter D	Angle θ	Length of cut L1	Effective Length L2	Neck Diameter D1	Overall Length L	Shank Dia d
4TAC 015 300 030	1.5	30°	0.21	3	0.75	45	4
4TAC 015 450 030	1.5	45°	0.37	3	0.75	45	4
4TAC 020 300 050	2	30°	0.28	5	1	50	4
4TAC 020 450 050	2	45°	0.5	5	1	50	4
4TAC 025 300 060	2.5	30°	0.37	6	1.2	50	4
4TAC 025 450 060	2.5	45°	0.65	6	1.2	50	4
4TAC 030 300 075	3	30°	0.43	7.5	1.5	50	4
New 4TAC 030 300 120	3	30°	0.43	12	1.5	50	4
4TAC 030 450 075	3	45°	0.75	7.5	1.5	50	4
New 4TAC 030 450 120	3	45°	0.75	12	1.5	50	4
4TAC 040 300 100	4	30°	0.57	10	2	50	4
New 4TAC 040 300 160	4	30°	0.57	16	2	50	4
4TAC 040 450 100	4	45°	1	10	2	50	4
New 4TAC 040 450 160	4	45°	1	16	2	50	4
4TAC 050 300 125	5	30°	0.72	12.5	2.5	60	6
4TAC 050 450 125	5	45°	1.25	12.5	2.5	60	6
4TAC 060 300 150	6	30°	0.86	15	3	60	6
New 4TAC 060 300 240	6	30°	0.86	24	3	60	6
4TAC 060 450 150	6	45°	1.5	15	3	60	6
New 4TAC 060 450 240	6	45°	1.5	24	3	60	6
6TAC 080 300 200	8	30°	1.15	20	4	70	8
New 6TAC 080 300 280	8	30°	1.15	28	4	70	8
6TAC 080 450 200	8	45°	2	20	4	70	8
New 6TAC 080 450 280	8	45°	2	28	4	70	8
6TAC 100 300 250	10	30°	1.44	25	5	75	10
New 6TAC 100 300 350	10	30°	1.44	35	5	75	10
6TAC 100 450 250	10	45°	2.5	25	5	75	10
New 6TAC 100 450 350	10	45°	2.5	35	5	75	10
6TAC 120 300 300	12	30°	1.73	30	6	80	12
New 6TAC 120 300 420	12	30°	1.73	42	6	80	12
6TAC 120 450 300	12	45°	3	30	6	80	12
New 6TAC 120 450 420	12	45°	3	42	6	80	12

Available Cutting Shape





**FOR
CBN**

CBN
End Mill
Series



Jseries

End Mills for
Hardened
Steels



**HARD
series**

High Speed
End Mill Series



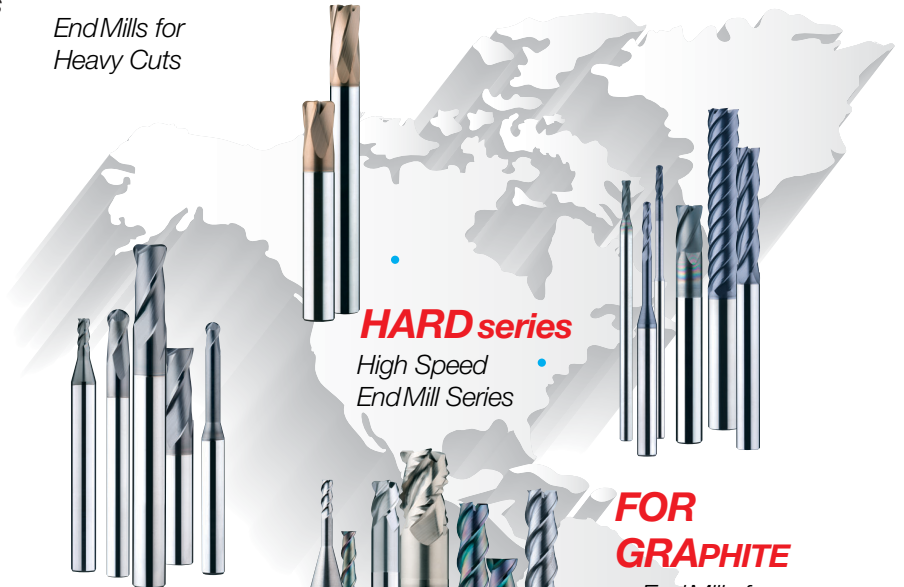
Eseries

End Mills for
Heavy Cuts



Gseries

End Mills for
General
purpose



HARD series

High Speed
End Mill Series



G-TAC

G-TAC Coated
End Mill Series

**FOR
GRAPHITE**

End Mills for
•Graphite



**FOR
ALUMINUM**

End Mills for
Aluminum



**FOR
SUS**

End Mills
for SUS

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