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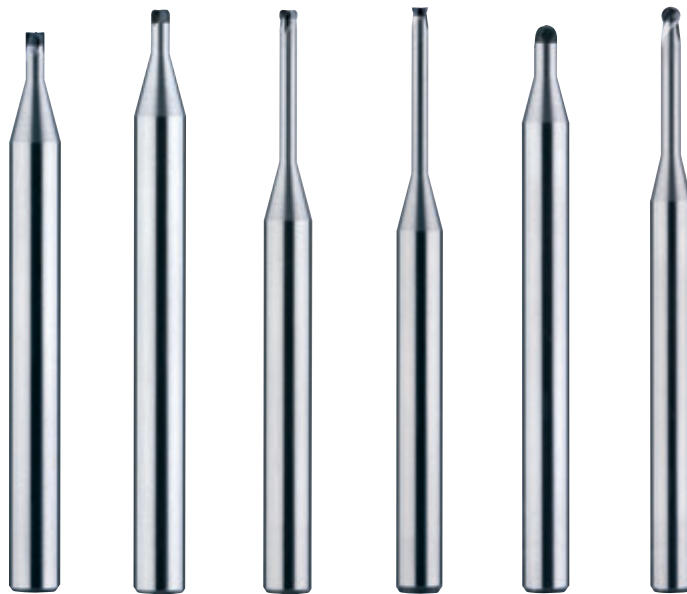


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***LOW***  
***Price***  
***HIGH***  
***Performance***



***CBN-SERIES***



Optimised for precise machining of high hardness work material

**High Abrasion Resistance !**

# HRC72

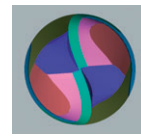
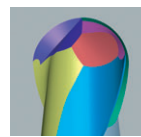
Optimised for mirror face machining of hardened steels (HRC72) !



**CBN EndMill series**

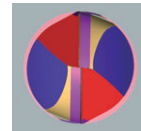
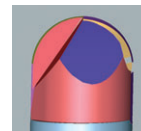
5  $\pm$   $\mu$ m of hardened steel(HRC52~72)  
PCBN endmill for precise finishing(  
Long tool life by high quality PCBN

*Various helix design for the best quality !*



**Helix 30°**

*Optimum for hardened -  
mold machining*



**Helix 0°**

*Optimum for mirror face  
machining*

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.



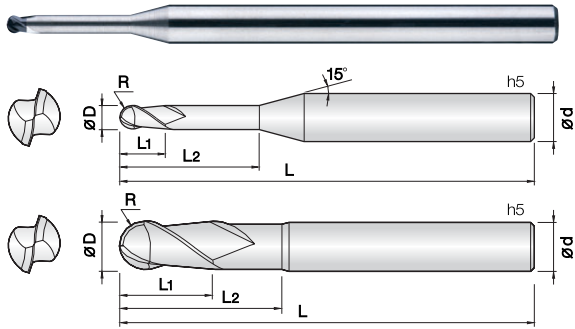
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- **PCBN ENDMILL for precise finishing ( $\pm 5\mu\text{m}$ ) of hardened steel (HRC50~72)**
- Long tool life by high content PCBN.
- Excellent surface finish.
- Various flute length for optimum performance.
- Recommend high speed(20,000~50,000RPM) with oil-mist.
- C.B.N (Cubic Boron Nitride)



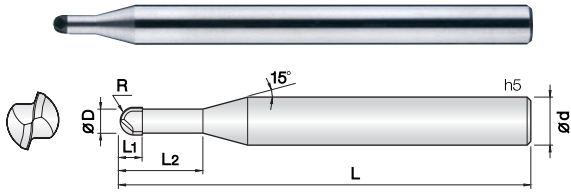
0.1 ~ 1.25R    1.5 ~ 2R    3R

D Size	D Tolerance
$\varnothing 0.2 \sim 6$	+0 ~ -0.01mm

: 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
2BCBN 002 002 S04	0.1R X 0.2	0.2	-	48	4	2BCBN 015 040 S04	0.75R X 1.5	1	4	48	4
2BCBN 002 004 S04	0.1R X 0.2	0.4	-	48	4	2BCBN 015 060 S04	0.75R X 1.5	1	6	48	4
2BCBN 003 003 S04	0.15R X 0.3	0.3	-	48	4	2BCBN 015 080 S04	0.75R X 1.5	1	8	48	4
2BCBN 003 005 S04	0.15R X 0.3	0.5	-	48	4	2BCBN 015 100 S04	0.75R X 1.5	1	10	48	4
2BCBN 004 015 S04	0.2R X 0.4	0.3	1.5	48	4	2BCBN 015 120 S04	0.75R X 1.5	1	12	48	4
2BCBN 004 020 S04	0.2R X 0.4	0.3	2	48	4	2BCBN 015 140 S04	0.75R X 1.5	1	14	48	4
2BCBN 004 030 S04	0.2R X 0.4	0.3	3	48	4	2BCBN 015 160 S04	0.75R X 1.5	1	16	48	4
2BCBN 004 040 S04	0.2R X 0.4	0.3	4	48	4	2BCBN 015 180 S04	0.75R X 1.5	1	18	48	4
2BCBN 004 050 S04	0.2R X 0.4	0.3	5	48	4	2BCBN 020 040 S04	1R X 2	1.2	4	50	4
2BCBN 004 060 S04	0.2R X 0.4	0.3	6	48	4	2BCBN 020 060 S04	1R X 2	1.2	6	50	4
2BCBN 005 015 S04	0.25R X 0.5	0.4	1.5	48	4	2BCBN 020 080 S04	1R X 2	1.2	8	50	4
2BCBN 005 020 S04	0.25R X 0.5	0.4	2	48	4	2BCBN 020 100 S04	1R X 2	1.2	10	50	4
2BCBN 005 030 S04	0.25R X 0.5	0.4	3	48	4	2BCBN 020 120 S04	1R X 2	1.2	12	50	4
2BCBN 005 040 S04	0.25R X 0.5	0.4	4	48	4	2BCBN 020 140 S04	1R X 2	1.2	14	50	4
2BCBN 005 050 S04	0.25R X 0.5	0.4	5	48	4	2BCBN 020 160 S04	1R X 2	1.2	16	50	4
2BCBN 005 060 S04	0.25R X 0.5	0.4	6	48	4	2BCBN 020 180 S04	1R X 2	1.2	18	50	4
2BCBN 005 080 S04	0.25R X 0.5	0.4	8	48	4	2BCBN 025 060 S06	1.25R X 2.5	1.6	6	66	6
2BCBN 006 015 S04	0.3R X 0.6	0.5	1.5	48	4	2BCBN 025 100 S06	1.25R X 2.5	1.6	10	66	6
2BCBN 006 020 S04	0.3R X 0.6	0.5	2	48	4	2BCBN 025 160 S06	1.25R X 2.5	1.6	16	66	6
2BCBN 006 030 S04	0.3R X 0.6	0.5	3	48	4	2BCBN 025 200 S06	1.25R X 2.5	1.6	20	66	6
2BCBN 006 040 S04	0.3R X 0.6	0.5	4	48	4	2BCBN 030 060 S06	1.5R X 3	1.8	6	66	6
2BCBN 006 050 S04	0.3R X 0.6	0.5	5	48	4	2BCBN 030 080 S06	1.5R X 3	1.8	8	66	6
2BCBN 006 060 S04	0.3R X 0.6	0.5	6	48	4	2BCBN 030 100 S06	1.5R X 3	1.8	10	66	6
2BCBN 006 080 S04	0.3R X 0.6	0.5	8	48	4	2BCBN 030 120 S06	1.5R X 3	1.8	12	66	6
2BCBN 006 100 S04	0.3R X 0.6	0.5	10	48	4	2BCBN 030 160 S06	1.5R X 3	1.8	16	66	6
2BCBN 007 020 S04	0.35R X 0.7	0.5	2	48	4	2BCBN 030 200 S06	1.5R X 3	1.8	20	66	6
2BCBN 007 040 S04	0.35R X 0.7	0.5	4	48	4	2BCBN 040 060 S06	2R X 4	2.4	6	66	6
2BCBN 008 020 S04	0.4R X 0.8	0.6	2	48	4	2BCBN 040 080 S06	2R X 4	2.4	8	66	6
2BCBN 008 040 S04	0.4R X 0.8	0.6	4	48	4	2BCBN 040 100 S06	2R X 4	2.4	10	66	6
2BCBN 008 060 S04	0.4R X 0.8	0.6	6	48	4	2BCBN 040 120 S06	2R X 4	2.4	12	66	6
2BCBN 008 080 S04	0.4R X 0.8	0.6	8	48	4	2BCBN 040 160 S06	2R X 4	2.4	16	66	6
2BCBN 008 100 S04	0.4R X 0.8	0.6	10	48	4	2BCBN 040 200 S06	2R X 4	2.4	20	66	6
2BCBN 009 020 S04	0.45R X 0.9	0.6	2	48	4	2BCBN 060 035 S06	3R X 6	3.5	-	83	6
2BCBN 009 040 S04	0.45R X 0.9	0.6	4	48	4	2BCBN 060 100 S06	3R X 6	3.5	10	83	6
2BCBN 010 025 S04	0.5R X 1	0.7	2.5	48	4	2BCBN 060 200 S06	3R X 6	3.5	20	83	6
2BCBN 010 040 S04	0.5R X 1	0.7	4	48	4						
2BCBN 010 050 S04	0.5R X 1	0.7	5	48	4						
2BCBN 010 060 S04	0.5R X 1	0.7	6	48	4						
2BCBN 010 080 S04	0.5R X 1	0.7	8	48	4						
2BCBN 010 100 S04	0.5R X 1	0.7	10	48	4						
2BCBN 010 120 S04	0.5R X 1	0.7	12	48	4						
2BCBN 010 160 S04	0.5R X 1	0.7	16	48	4						
2BCBN 012 040 S04	0.6R X 1.2	0.8	4	48	4						
2BCBN 012 060 S04	0.6R X 1.2	0.8	6	48	4						
2BCBN 012 080 S04	0.6R X 1.2	0.8	8	48	4						
2BCBN 012 100 S04	0.6R X 1.2	0.8	10	48	4						
2BCBN 012 120 S04	0.6R X 1.2	0.8	12	48	4						
2BCBN 012 160 S04	0.6R X 1.2	0.8	16	48	4						





- **PCBN ENDMILL for precise finishing ( $\pm 5 \mu\text{m}$ ) of hardened steel (HRc50~72)**
- Long tool life by high content PCBN.
- Straight type Design for Minimizing edge chipping.
- Excellent surface finish.
- Various flute length for optimum performance.
- Recommend high speed(20,000~50,000RPM) with oil-mist.
- C.B.N (Cubic Boron Nitride)

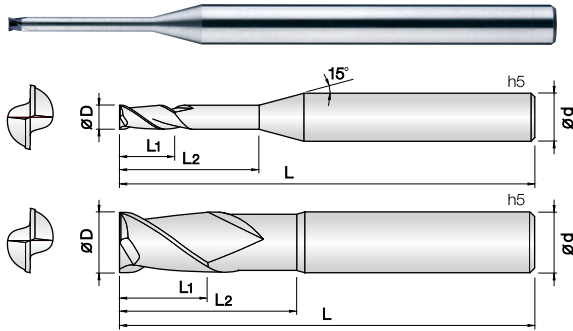


D Size	D Tolerance
ø0.2 ~ 6	+0 ~ -0.01mm

: mm

Order Number	Diameter R x D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d										
2SBCBN 002 002 S04	0.1R X 0.2	0.2	-	48	4										
2SBCBN 002 004 S04	0.1R X 0.2	0.4	-	48	4										
2SBCBN 003 003 S04	0.15R X 0.3	0.3	-	48	4										
2SBCBN 003 005 S04	0.15R X 0.3	0.5	-	48	4										
2SBCBN 004 015 S04	0.2R X 0.4	0.3	1.5	48	4										
2SBCBN 005 015 S04	0.25R X 0.5	0.4	1.5	48	4										
2SBCBN 005 020 S04	0.25R X 0.5	0.4	2	48	4										
2SBCBN 006 015 S04	0.3R X 0.6	0.5	1.5	48	4										
2SBCBN 006 020 S04	0.3R X 0.6	0.5	2	48	4										
2SBCBN 006 030 S04	0.3R X 0.6	0.5	3	48	4										
2SBCBN 006 040 S04	0.3R X 0.6	0.5	4	48	4										
2SBCBN 007 020 S04	0.35R X 0.7	0.5	2	48	4										
2SBCBN 008 020 S04	0.4R X 0.8	0.6	2	48	4										
2SBCBN 008 030 S04	0.4R X 0.8	0.6	3	48	4										
2SBCBN 008 040 S04	0.4R X 0.8	0.6	4	48	4										
2SBCBN 009 020 S04	0.45R X 0.9	0.6	2	48	4										
2SBCBN 010 025 S04	0.5R X 1	0.7	2.5	48	4										
2SBCBN 010 040 S04	0.5R X 1	0.7	4	48	4										
2SBCBN 010 050 S04	0.5R X 1	0.7	5	48	4										
2SBCBN 010 060 S04	0.5R X 1	0.7	6	48	4										
2SBCBN 012 040 S04	0.6R X 1.2	0.8	4	48	4										
2SBCBN 015 040 S04	0.75R X 1.5	1	4	48	4										
2SBCBN 015 060 S04	0.75R X 1.5	1	6	48	4										
2SBCBN 015 080 S04	0.75R X 1.5	1	8	48	4										
2SBCBN 015 100 S04	0.75R X 1.5	1	10	48	4										
2SBCBN 020 040 S04	1R X 2	1.2	4	50	4										
2SBCBN 020 060 S04	1R X 2	1.2	6	50	4										
2SBCBN 020 080 S04	1R X 2	1.2	8	50	4										
2SBCBN 020 100 S04	1R X 2	1.2	10	50	4										
2SBCBN 020 120 S04	1R X 2	1.2	12	50	4										
2SBCBN 025 060 S06	1.25R X 2.5	1.6	6	66	6										
2SBCBN 030 060 S06	1.5R X 3	1.8	6	66	6										
2SBCBN 030 080 S06	1.5R X 3	1.8	8	66	6										
2SBCBN 030 100 S06	1.5R X 3	1.8	10	66	6										
2SBCBN 030 120 S06	1.5R X 3	1.8	12	66	6										
2SBCBN 030 160 S06	1.5R X 3	1.8	16	66	6										
2SBCBN 030 200 S06	1.5R X 3	1.8	20	66	6										
2SBCBN 040 060 S06	2R X 4	2.4	6	66	6										
2SBCBN 040 080 S06	2R X 4	2.4	8	66	6										
2SBCBN 040 100 S06	2R X 4	2.4	10	66	6										
2SBCBN 040 120 S06	2R X 4	2.4	12	66	6										
2SBCBN 040 160 S06	2R X 4	2.4	16	66	6										
2SBCBN 040 200 S06	2R X 4	2.4	20	66	6										
2SBCBN 060 035 S06	3R X 6	3.5	-	83	6										
2SBCBN 060 100 S06	3R X 6	3.5	10	83	6										





### • PCBN ENDMILL for precise finishing ( $\pm 5\mu\text{m}$ ) of hardened steel (HRc50~72)

- Long tool life by high content PCBN.
- Excellent surface finish.
- Various flute length for optimum performance.
- Recommend high speed (20,000~50,000RPM) with oil-mist.
- C.B.N (Cubic Boron Nitride)



ø0.2 ~ ø6

Shield Edge

D Size	D Tolerance
ø0.2 ~ 6	+0 ~ -0.01mm

: mm

Order Number	Diameter D	of cut L1	Length L2	Length L	Dia d	Order Number	Diameter D	of cut L1	Length L2	Length L	Dia d
2ECBN 002 002 S04	0.2	0.2	-	48	4	2ECBN 012 060 S04	1.2	0.7	6	48	4
2ECBN 002 004 S04	0.2	0.4	-	48	4	2ECBN 012 080 S04	1.2	0.7	8	48	4
2ECBN 003 003 S04	0.3	0.3	-	48	4	2ECBN 012 100 S04	1.2	0.7	10	48	4
2ECBN 003 005 S04	0.3	0.5	-	48	4	2ECBN 012 120 S04	1.2	0.7	12	48	4
2ECBN 004 015 S04	0.4	0.3	1.5	48	4	2ECBN 012 160 S04	1.2	0.7	16	48	4
2ECBN 004 020 S04	0.4	0.3	2	48	4	2ECBN 015 030 S04	1.5	0.8	3	48	4
2ECBN 004 030 S04	0.4	0.3	3	48	4	2ECBN 015 060 S04	1.5	0.8	6	48	4
2ECBN 004 040 S04	0.4	0.3	4	48	4	2ECBN 015 080 S04	1.5	0.8	8	48	4
2ECBN 004 050 S04	0.4	0.3	5	48	4	2ECBN 015 100 S04	1.5	0.8	10	48	4
2ECBN 004 060 S04	0.4	0.3	6	48	4	2ECBN 015 120 S04	1.5	0.8	12	48	4
2ECBN 005 015 S04	0.5	0.4	1.5	48	4	2ECBN 015 140 S04	1.5	0.8	14	48	4
2ECBN 005 020 S04	0.5	0.4	2	48	4	2ECBN 015 160 S04	1.5	0.8	16	48	4
2ECBN 005 030 S04	0.5	0.4	3	48	4	2ECBN 015 180 S04	1.5	0.8	18	48	4
2ECBN 005 040 S04	0.5	0.4	4	48	4	2ECBN 020 030 S04	2	0.9	3	50	4
2ECBN 005 050 S04	0.5	0.4	5	48	4	2ECBN 020 060 S04	2	0.9	6	50	4
2ECBN 005 060 S04	0.5	0.4	6	48	4	2ECBN 020 080 S04	2	0.9	8	50	4
2ECBN 005 080 S04	0.5	0.4	8	48	4	2ECBN 020 100 S04	2	0.9	10	50	4
2ECBN 006 015 S04	0.6	0.5	1.5	48	4	2ECBN 020 120 S04	2	0.9	12	50	4
2ECBN 006 020 S04	0.6	0.5	2	48	4	2ECBN 020 140 S04	2	0.9	14	50	4
2ECBN 006 030 S04	0.6	0.5	3	48	4	2ECBN 020 160 S04	2	0.9	16	50	4
2ECBN 006 040 S04	0.6	0.5	4	48	4	2ECBN 020 180 S04	2	0.9	18	50	4
2ECBN 006 060 S04	0.6	0.5	6	48	4	2ECBN 025 060 S06	2.5	1.2	6	66	6
2ECBN 006 080 S04	0.6	0.5	8	48	4	2ECBN 025 100 S06	2.5	1.2	10	66	6
2ECBN 006 100 S04	0.6	0.5	10	48	4	2ECBN 025 160 S06	2.5	1.2	16	66	6
2ECBN 007 025 S04	0.7	0.5	2.5	48	4	2ECBN 025 200 S06	2.5	1.2	20	66	6
2ECBN 007 040 S04	0.7	0.5	4	48	4	2ECBN 030 060 S06	3	1.2	6	66	6
2ECBN 007 060 S04	0.7	0.5	6	48	4	2ECBN 030 080 S06	3	1.2	8	66	6
2ECBN 008 025 S04	0.8	0.6	2.5	48	4	2ECBN 030 100 S06	3	1.2	10	66	6
2ECBN 008 040 S04	0.8	0.6	4	48	4	2ECBN 030 120 S06	3	1.2	12	66	6
2ECBN 008 060 S04	0.8	0.6	6	48	4	2ECBN 030 160 S06	3	1.2	16	66	6
2ECBN 008 080 S04	0.8	0.6	8	48	4	2ECBN 030 200 S06	3	1.2	20	66	6
2ECBN 008 100 S04	0.8	0.6	10	48	4	2ECBN 040 060 S06	4	1.5	6	66	6
2ECBN 009 025 S04	0.9	0.6	2.5	48	4	2ECBN 040 080 S06	4	1.5	8	66	6
2ECBN 009 040 S04	0.9	0.6	4	48	4	2ECBN 040 100 S06	4	1.5	10	66	6
2ECBN 009 060 S04	0.9	0.6	6	48	4	2ECBN 040 120 S06	4	1.5	12	66	6
2ECBN 009 080 S04	0.9	0.6	8	48	4	2ECBN 040 160 S06	4	1.5	16	66	6
2ECBN 009 100 S04	0.9	0.6	10	48	4	2ECBN 040 200 S06	4	1.5	20	66	6
2ECBN 010 025 S04	1	0.7	2.5	48	4	2ECBN 060 030 S06	6	3	-	83	6
2ECBN 010 040 S04	1	0.7	4	48	4	2ECBN 060 100 S06	6	3	10	83	6
2ECBN 010 050 S04	1	0.7	5	48	4	2ECBN 060 200 S06	6	3	20	83	6
2ECBN 010 060 S04	1	0.7	6	48	4						
2ECBN 010 080 S04	1	0.7	8	48	4						
2ECBN 010 100 S04	1	0.7	10	48	4						
2ECBN 010 120 S04	1	0.7	12	48	4						
2ECBN 010 140 S04	1	0.7	14	48	4						
2ECBN 010 160 S04	1	0.7	16	48	4						
2ECBN 012 030 S04	1.2	0.7	3	48	4						
2ECBN 012 040 S04	1.2	0.7	4	48	4						



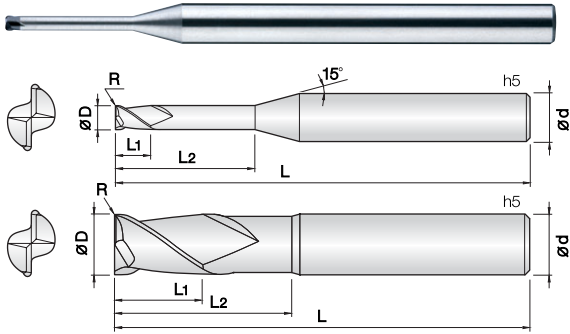
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- **PCBN ENDMILL for precise finishing ( $\pm 5\mu\text{m}$ ) of hardened steel (HRc50~72)**
- Long tool life by high content PCBN.
- Excellent surface finish.
- Various flute length for optimum performance.
- Recommend high speed(20,000~50,000RPM) with oil-mist.
- C.B.N (Cubic Boron Nitride)



R0.02 ~ 1

D Size	D Tolerance
ø0.4 ~ 6	+0 ~ -0.01mm

: mm

Order Number	Diameter D x R	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	Order Number	Diameter D x R	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2CCBN 004 0002 015	0.4 X R0.02	0.3	1.5	48	4	2CCBN 010 002 025	1 X R0.2	0.7	2.5	48	4
2CCBN 004 0002 020	0.4 X R0.02	0.3	2	48	4	2CCBN 010 002 040	1 X R0.2	0.7	4	48	4
2CCBN 004 0005 015	0.4 X R0.05	0.3	1.5	48	4	2CCBN 010 002 060	1 X R0.2	0.7	6	48	4
2CCBN 004 0005 020	0.4 X R0.05	0.3	2	48	4	2CCBN 010 002 080	1 X R0.2	0.7	8	48	4
2CCBN 004 001 015	0.4 X R0.1	0.3	1.5	48	4	2CCBN 010 002 100	1 X R0.2	0.7	10	48	4
2CCBN 004 001 020	0.4 X R0.1	0.3	2	48	4	2CCBN 010 003 025	1 X R0.3	0.7	2.5	48	4
2CCBN 005 0005 015	0.5 X R0.05	0.4	1.5	48	4	2CCBN 010 003 040	1 X R0.3	0.7	4	48	4
2CCBN 005 0005 020	0.5 X R0.05	0.4	2	48	4	2CCBN 010 003 060	1 X R0.3	0.7	6	48	4
2CCBN 005 0005 030	0.5 X R0.05	0.4	3	48	4	2CCBN 010 003 080	1 X R0.3	0.7	8	48	4
2CCBN 005 0005 040	0.5 X R0.05	0.4	4	48	4	2CCBN 010 003 100	1 X R0.3	0.7	10	48	4
2CCBN 005 0005 050	0.5 X R0.05	0.4	5	48	4	2CCBN 012 001 030	1.2 X R0.1	0.7	3	48	4
2CCBN 005 001 015	0.5 X R0.1	0.4	1.5	48	4	2CCBN 012 001 040	1.2 X R0.1	0.7	4	48	4
2CCBN 005 001 020	0.5 X R0.1	0.4	2	48	4	2CCBN 012 001 060	1.2 X R0.1	0.7	6	48	4
2CCBN 005 001 030	0.5 X R0.1	0.4	3	48	4	2CCBN 012 001 080	1.2 X R0.1	0.7	8	48	4
2CCBN 005 001 040	0.5 X R0.1	0.4	4	48	4	2CCBN 012 001 100	1.2 X R0.1	0.7	10	48	4
2CCBN 005 001 050	0.5 X R0.1	0.4	5	48	4	2CCBN 012 002 030	1.2 X R0.2	0.7	3	48	4
2CCBN 006 0005 020	0.6 X R0.05	0.5	2	48	4	2CCBN 012 002 040	1.2 X R0.2	0.7	4	48	4
2CCBN 006 0005 030	0.6 X R0.05	0.5	3	48	4	2CCBN 012 002 060	1.2 X R0.2	0.7	6	48	4
2CCBN 006 0005 040	0.6 X R0.05	0.5	4	48	4	2CCBN 012 002 080	1.2 X R0.2	0.7	8	48	4
2CCBN 006 0005 060	0.6 X R0.05	0.5	6	48	4	2CCBN 012 002 100	1.2 X R0.2	0.7	10	48	4
2CCBN 006 001 020	0.6 X R0.1	0.5	2	48	4	2CCBN 012 003 030	1.2 X R0.3	0.7	3	48	4
2CCBN 006 001 030	0.6 X R0.1	0.5	3	48	4	2CCBN 012 003 040	1.2 X R0.3	0.7	4	48	4
2CCBN 006 001 040	0.6 X R0.1	0.5	4	48	4	2CCBN 012 003 060	1.2 X R0.3	0.7	6	48	4
2CCBN 006 001 060	0.6 X R0.1	0.5	6	48	4	2CCBN 012 003 080	1.2 X R0.3	0.7	8	48	4
2CCBN 007 001 025	0.7 X R0.1	0.5	2.5	48	4	2CCBN 012 003 100	1.2 X R0.3	0.7	10	48	4
2CCBN 007 001 040	0.7 X R0.1	0.5	4	48	4	2CCBN 015 0002 030	1.5 X R0.02	0.8	3	48	4
2CCBN 007 001 060	0.7 X R0.1	0.5	6	48	4	2CCBN 015 0002 040	1.5 X R0.02	0.8	4	48	4
2CCBN 008 001 025	0.8 X R0.1	0.6	2.5	48	4	2CCBN 015 0002 060	1.5 X R0.02	0.8	6	48	4
2CCBN 008 001 040	0.8 X R0.1	0.6	4	48	4	2CCBN 015 0002 080	1.5 X R0.02	0.8	8	48	4
2CCBN 008 001 060	0.8 X R0.1	0.6	6	48	4	2CCBN 015 0002 100	1.5 X R0.02	0.8	10	48	4
2CCBN 008 002 025	0.8 X R0.2	0.6	2.5	48	4	2CCBN 015 0005 030	1.5 X R0.05	0.8	3	48	4
2CCBN 008 002 040	0.8 X R0.2	0.6	4	48	4	2CCBN 015 0005 040	1.5 X R0.05	0.8	4	48	4
2CCBN 008 002 060	0.8 X R0.2	0.6	6	48	4	2CCBN 015 0005 060	1.5 X R0.05	0.8	6	48	4
2CCBN 010 0002 025	1 X R0.02	0.7	2.5	48	4	2CCBN 015 0005 080	1.5 X R0.05	0.8	8	48	4
2CCBN 010 0002 040	1 X R0.02	0.7	4	48	4	2CCBN 015 0005 100	1.5 X R0.05	0.8	10	48	4
2CCBN 010 0002 060	1 X R0.02	0.7	6	48	4	2CCBN 015 001 030	1.5 X R0.1	0.8	3	48	4
2CCBN 010 0002 080	1 X R0.02	0.7	8	48	4	2CCBN 015 001 040	1.5 X R0.1	0.8	4	48	4
2CCBN 010 0002 100	1 X R0.02	0.7	10	48	4	2CCBN 015 001 060	1.5 X R0.1	0.8	6	48	4
2CCBN 010 0005 025	1 X R0.05	0.7	2.5	48	4	2CCBN 015 001 080	1.5 X R0.1	0.8	8	48	4
2CCBN 010 0005 040	1 X R0.05	0.7	4	48	4	2CCBN 015 001 100	1.5 X R0.1	0.8	10	48	4
2CCBN 010 0005 060	1 X R0.05	0.7	6	48	4	2CCBN 015 002 030	1.5 X R0.2	0.8	3	48	4
2CCBN 010 0005 080	1 X R0.05	0.7	8	48	4	2CCBN 015 002 040	1.5 X R0.2	0.8	4	48	4
2CCBN 010 0005 100	1 X R0.05	0.7	10	48	4	2CCBN 015 002 060	1.5 X R0.2	0.8	6	48	4
2CCBN 010 001 025	1 X R0.1	0.7	2.5	48	4	2CCBN 015 002 080	1.5 X R0.2	0.8	8	48	4
2CCBN 010 001 040	1 X R0.1	0.7	4	48	4	2CCBN 015 002 100	1.5 X R0.2	0.8	10	48	4
2CCBN 010 001 060	1 X R0.1	0.7	6	48	4	2CCBN 015 003 030	1.5 X R0.3	0.8	3	48	4
2CCBN 010 001 080	1 X R0.1	0.7	8	48	4	2CCBN 015 003 040	1.5 X R0.3	0.8	4	48	4
2CCBN 010 001 100	1 X R0.1	0.7	10	48	4	2CCBN 015 003 060	1.5 X R0.3	0.8	6	48	4

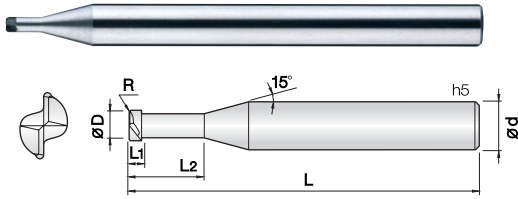




mm

Order Number	Diameter D x R	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	Order Number	Diameter D x R	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2CCBN 015 003 080	1.5 X R0.3	0.8	8	48	4	2CCBN 040 005 100	4 X R0.5	1.5	10	66	6
2CCBN 015 003 100	1.5 X R0.3	0.8	10	48	4	2CCBN 040 005 160	4 X R0.5	1.5	16	66	6
2CCBN 020 0002 030	2 X R0.02	0.9	3	50	4	2CCBN 040 010 060	4 X R1	1.5	6	66	6
2CCBN 020 0002 060	2 X R0.02	0.9	6	50	4	2CCBN 040 010 100	4 X R1	1.5	10	66	6
2CCBN 020 0002 080	2 X R0.02	0.9	8	50	4	2CCBN 040 010 160	4 X R1	1.5	16	66	6
2CCBN 020 0002 100	2 X R0.02	0.9	10	50	4	2CCBN 060 003 030	6 X R0.3	3	-	83	6
2CCBN 020 0005 030	2 X R0.05	0.9	3	50	4	2CCBN 060 003 150	6 X R0.3	3	15	83	6
2CCBN 020 0005 060	2 X R0.05	0.9	6	50	4	2CCBN 060 005 030	6 X R0.5	3	-	83	6
2CCBN 020 0005 080	2 X R0.05	0.9	8	50	4	2CCBN 060 005 150	6 X R0.5	3	15	83	6
2CCBN 020 0005 100	2 X R0.05	0.9	10	50	4	2CCBN 060 010 030	6 X R1	3	-	83	6
2CCBN 020 001 030	2 X R0.1	0.9	3	50	4	2CCBN 060 010 150	6 X R1	3	15	83	6
2CCBN 020 001 060	2 X R0.1	0.9	6	50	4						
2CCBN 020 001 080	2 X R0.1	0.9	8	50	4						
2CCBN 020 001 100	2 X R0.1	0.9	10	50	4						
2CCBN 020 002 030	2 X R0.2	0.9	3	50	4						
2CCBN 020 002 060	2 X R0.2	0.9	6	50	4						
2CCBN 020 002 080	2 X R0.2	0.9	8	50	4						
2CCBN 020 002 100	2 X R0.2	0.9	10	50	4						
2CCBN 020 003 030	2 X R0.3	0.9	3	50	4						
2CCBN 020 003 060	2 X R0.3	0.9	6	50	4						
2CCBN 020 003 080	2 X R0.3	0.9	8	50	4						
2CCBN 020 003 100	2 X R0.3	0.9	10	50	4						
2CCBN 020 005 030	2 X R0.5	0.9	3	50	4						
2CCBN 020 005 060	2 X R0.5	0.9	6	50	4						
2CCBN 020 005 080	2 X R0.5	0.9	8	50	4						
2CCBN 020 005 100	2 X R0.5	0.9	10	50	4						
2CCBN 025 001 060	2.5 X R0.1	1.2	6	66	6						
2CCBN 025 001 100	2.5 X R0.1	1.2	10	66	6						
2CCBN 025 002 060	2.5 X R0.2	1.2	6	66	6						
2CCBN 025 002 100	2.5 X R0.2	1.2	10	66	6						
2CCBN 025 003 060	2.5 X R0.3	1.2	6	66	6						
2CCBN 025 003 100	2.5 X R0.3	1.2	10	66	6						
2CCBN 030 001 060	3 X R0.1	1.2	6	66	6						
2CCBN 030 001 100	3 X R0.1	1.2	10	66	6						
2CCBN 030 001 160	3 X R0.1	1.2	16	66	6						
2CCBN 030 001 200	3 X R0.1	1.2	20	66	6						
2CCBN 030 002 060	3 X R0.2	1.2	6	66	6						
2CCBN 030 002 100	3 X R0.2	1.2	10	66	6						
2CCBN 030 002 160	3 X R0.2	1.2	16	66	6						
2CCBN 030 002 200	3 X R0.2	1.2	20	66	6						
2CCBN 030 003 060	3 X R0.3	1.2	6	66	6						
2CCBN 030 003 100	3 X R0.3	1.2	10	66	6						
2CCBN 030 003 160	3 X R0.3	1.2	16	66	6						
2CCBN 030 003 200	3 X R0.3	1.2	20	66	6						
2CCBN 030 005 060	3 X R0.5	1.2	6	66	6						
2CCBN 030 005 100	3 X R0.5	1.2	10	66	6						
2CCBN 030 005 160	3 X R0.5	1.2	16	66	6						
2CCBN 030 005 200	3 X R0.5	1.2	20	66	6						
2CCBN 030 010 060	3 X R1	1.2	6	66	6						
2CCBN 030 010 100	3 X R1	1.2	10	66	6						
2CCBN 030 010 160	3 X R1	1.2	16	66	6						
2CCBN 030 010 200	3 X R1	1.2	20	66	6						
2CCBN 040 001 060	4 X R0.1	1.5	6	66	6						
2CCBN 040 001 100	4 X R0.1	1.5	10	66	6						
2CCBN 040 001 160	4 X R0.1	1.5	16	66	6						
2CCBN 040 002 060	4 X R0.2	1.5	6	66	6						
2CCBN 040 002 100	4 X R0.2	1.5	10	66	6						
2CCBN 040 002 160	4 X R0.2	1.5	16	66	6						
2CCBN 040 003 060	4 X R0.3	1.5	6	66	6						
2CCBN 040 003 100	4 X R0.3	1.5	10	66	6						
2CCBN 040 003 160	4 X R0.3	1.5	16	66	6						
2CCBN 040 005 060	4 X R0.5	1.5	6	66	6						





- **PCBN ENDMILL for precise finishing ( $\pm 5 \mu\text{m}$ ) of hardened steel (HRc50~72)**
- Long tool life by high content PCBN.
- Straight type Design for Minimizing edge chipping.
- Excellent surface finish.
- Various flute length for optimum performance.
- Recommend high speed(20,000~50,000RPM) with oil-mist.
- C.B.N (Cubic Boron Nitride)



R0.02 ~ 1

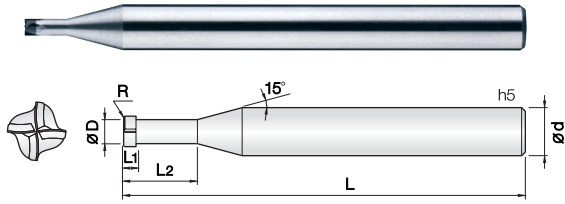
D Size	D Tolerance
ø0.4 ~ 6	+0 ~ -0.01mm

mm

Order Number	Diameter D x R	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	Order Number	Diameter D x R	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2SCCBN 004 0002 015	0.4 X R0.02	0.3	1.5	48	4	2SCCBN 030 002 060	3 X R0.2	1.2	6	66	6
2SCCBN 004 0005 015	0.4 X R0.05	0.3	1.5	48	4	2SCCBN 030 002 100	3 X R0.2	1.2	10	66	6
2SCCBN 004 001 015	0.4 X R0.1	0.3	1.5	48	4	2SCCBN 030 003 060	3 X R0.3	1.2	6	66	6
2SCCBN 005 0005 015	0.5 X R0.05	0.4	1.5	48	4	2SCCBN 030 003 100	3 X R0.3	1.2	10	66	6
2SCCBN 005 001 015	0.5 X R0.1	0.4	1.5	48	4	2SCCBN 030 005 060	3 X R0.5	1.2	6	66	6
2SCCBN 006 0005 020	0.6 X R0.05	0.5	2	48	4	2SCCBN 030 005 100	3 X R0.5	1.2	10	66	6
2SCCBN 006 001 020	0.6 X R0.1	0.5	2	48	4	2SCCBN 030 005 160	3 X R0.5	1.2	16	66	6
2SCCBN 008 001 020	0.8 X R0.1	0.6	2	48	4	2SCCBN 030 010 060	3 X R1	1.2	6	66	6
2SCCBN 008 002 020	0.8 X R0.2	0.6	2	48	4	2SCCBN 030 010 100	3 X R1	1.2	10	66	6
2SCCBN 010 0002 025	1 X R0.02	0.7	2.5	48	4	2SCCBN 030 010 160	3 X R1	1.2	16	66	6
2SCCBN 010 0002 040	1 X R0.02	0.7	4	48	4	2SCCBN 040 001 060	4 X R0.1	1.5	6	66	6
2SCCBN 010 0005 025	1 X R0.05	0.7	2.5	48	4	2SCCBN 040 001 100	4 X R0.1	1.5	10	66	6
2SCCBN 010 0005 040	1 X R0.05	0.7	4	48	4	2SCCBN 040 001 160	4 X R0.1	1.5	16	66	6
2SCCBN 010 001 025	1 X R0.1	0.7	2.5	48	4	2SCCBN 040 002 060	4 X R0.2	1.5	6	66	6
2SCCBN 010 001 040	1 X R0.1	0.7	4	48	4	2SCCBN 040 002 100	4 X R0.2	1.5	10	66	6
2SCCBN 010 002 025	1 X R0.2	0.7	2.5	48	4	2SCCBN 040 002 160	4 X R0.2	1.5	16	66	6
2SCCBN 010 002 040	1 X R0.2	0.7	4	48	4	2SCCBN 040 003 060	4 X R0.3	1.5	6	66	6
2SCCBN 010 003 025	1 X R0.3	0.7	2.5	48	4	2SCCBN 040 003 100	4 X R0.3	1.5	10	66	6
2SCCBN 010 003 040	1 X R0.3	0.7	4	48	4	2SCCBN 040 003 160	4 X R0.3	1.5	16	66	6
2SCCBN 015 0002 030	1.5 X R0.02	0.8	3	48	4	2SCCBN 040 005 060	4 X R0.5	1.5	6	66	6
2SCCBN 015 0002 040	1.5 X R0.02	0.8	4	48	4	2SCCBN 040 005 100	4 X R0.5	1.5	10	66	6
2SCCBN 015 0005 030	1.5 X R0.05	0.8	3	48	4	2SCCBN 040 005 160	4 X R0.5	1.5	16	66	6
2SCCBN 015 0005 040	1.5 X R0.05	0.8	4	48	4	2SCCBN 040 010 060	4 X R1	1.5	6	66	6
2SCCBN 015 001 030	1.5 X R0.1	0.8	3	48	4	2SCCBN 040 010 100	4 X R1	1.5	10	66	6
2SCCBN 015 001 040	1.5 X R0.1	0.8	4	48	4	2SCCBN 040 010 160	4 X R1	1.5	16	66	6
2SCCBN 015 002 030	1.5 X R0.2	0.8	3	48	4	2SCCBN 060 003 030	6 X R0.3	3	-	83	6
2SCCBN 015 002 040	1.5 X R0.2	0.8	4	48	4	2SCCBN 060 003 150	6 X R0.3	3	15	83	6
2SCCBN 015 003 030	1.5 X R0.3	0.8	3	48	4	2SCCBN 060 005 030	6 X R0.5	3	-	83	6
2SCCBN 015 003 040	1.5 X R0.3	0.8	4	48	4	2SCCBN 060 005 150	6 X R0.5	3	15	83	6
2SCCBN 020 0002 030	2 X R0.02	0.9	3	50	4	2SCCBN 060 010 030	6 X R1	3	-	83	6
2SCCBN 020 0002 060	2 X R0.02	0.9	6	50	4	2SCCBN 060 010 150	6 X R1	3	15	83	6
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2SCCBN 020 0005 060	2 X R0.05	0.9	6	50	4						
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2SCCBN 020 002 030	2 X R0.2	0.9	3	50	4						
2SCCBN 020 002 060	2 X R0.2	0.9	6	50	4						
2SCCBN 020 003 030	2 X R0.3	0.9	3	50	4						
2SCCBN 020 003 060	2 X R0.3	0.9	6	50	4						
2SCCBN 020 005 030	2 X R0.5	0.9	3	50	4						
2SCCBN 020 005 060	2 X R0.5	0.9	6	50	4						
2SCCBN 025 001 060	2.5 X R0.1	1.2	6	66	6						
2SCCBN 025 002 060	2.5 X R0.2	1.2	6	66	6						
2SCCBN 025 003 060	2.5 X R0.3	1.2	6	66	6						
2SCCBN 030 001 060	3 X R0.1	1.2	6	66	6						
2SCCBN 030 001 100	3 X R0.1	1.2	10	66	6						







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- C.B.N (Cubic Boron Nitride)



R0.1 ~ 1

D Size	D Tolerance
$\phi 0.8 \sim 6$	+0 ~ -0.01mm

: mm

Order Number	Diameter D x R	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	Order Number	Diameter D x R	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
4SCCBN 008 001 025	0.8 X R0.1	0.6	2.5	48	4	4SCCBN 030 003 100	3 X R0.3	1.2	10	66	6
4SCCBN 008 002 025	0.8 X R0.2	0.6	2.5	48	4	4SCCBN 030 005 060	3 X R0.5	1.2	6	66	6
4SCCBN 010 0002 025	1 X R0.02	0.7	2.5	48	4	4SCCBN 030 005 100	3 X R0.5	1.2	10	66	6
4SCCBN 010 0002 040	1 X R0.02	0.7	4	48	4	4SCCBN 030 005 160	3 X R0.5	1.2	16	66	6
4SCCBN 010 0005 025	1 X R0.05	0.7	2.5	48	4	4SCCBN 030 010 060	3 X R1	1.2	6	66	6
4SCCBN 010 0005 040	1 X R0.05	0.7	4	48	4	4SCCBN 030 010 100	3 X R1	1.2	10	66	6
4SCCBN 010 001 025	1 X R0.1	0.7	2.5	48	4	4SCCBN 030 010 160	3 X R1	1.2	16	66	6
4SCCBN 010 001 040	1 X R0.1	0.7	4	48	4	4SCCBN 040 001 060	4 X R0.1	1.5	6	66	6
4SCCBN 010 002 025	1 X R0.2	0.7	2.5	48	4	4SCCBN 040 001 100	4 X R0.1	1.5	10	66	6
4SCCBN 010 002 040	1 X R0.2	0.7	4	48	4	4SCCBN 040 001 160	4 X R0.1	1.5	16	66	6
4SCCBN 010 003 025	1 X R0.3	0.7	2.5	48	4	4SCCBN 040 002 060	4 X R0.2	1.5	6	66	6
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4SCCBN 015 0002 030	1.5 X R0.02	0.8	3	48	4	4SCCBN 040 002 160	4 X R0.2	1.5	16	66	6
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4SCCBN 025 001 060	2.5 X R0.1	1.2	6	66	6						
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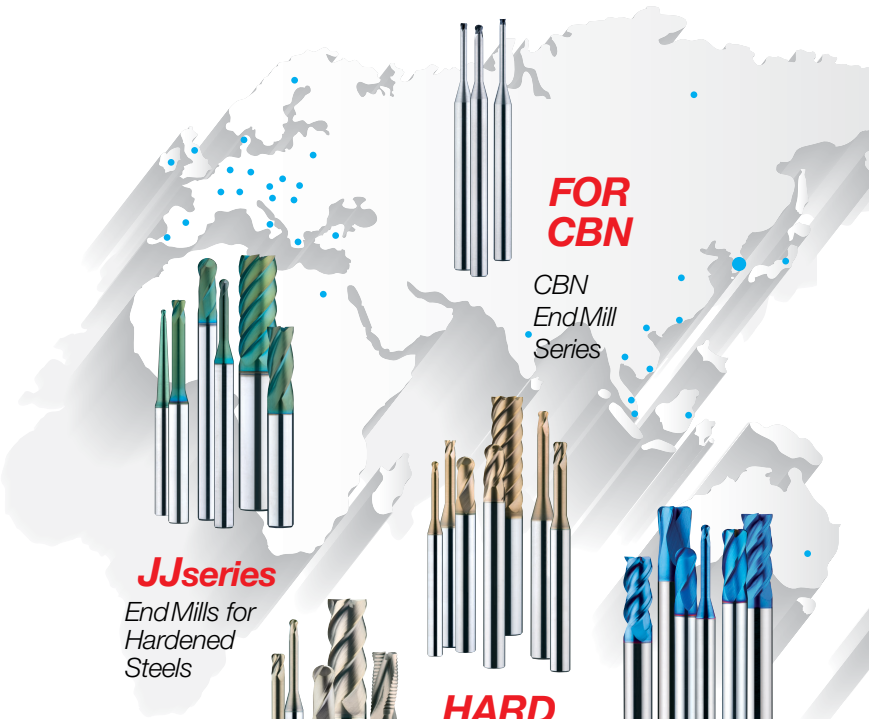
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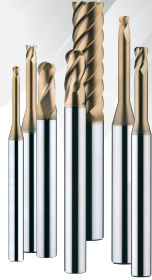
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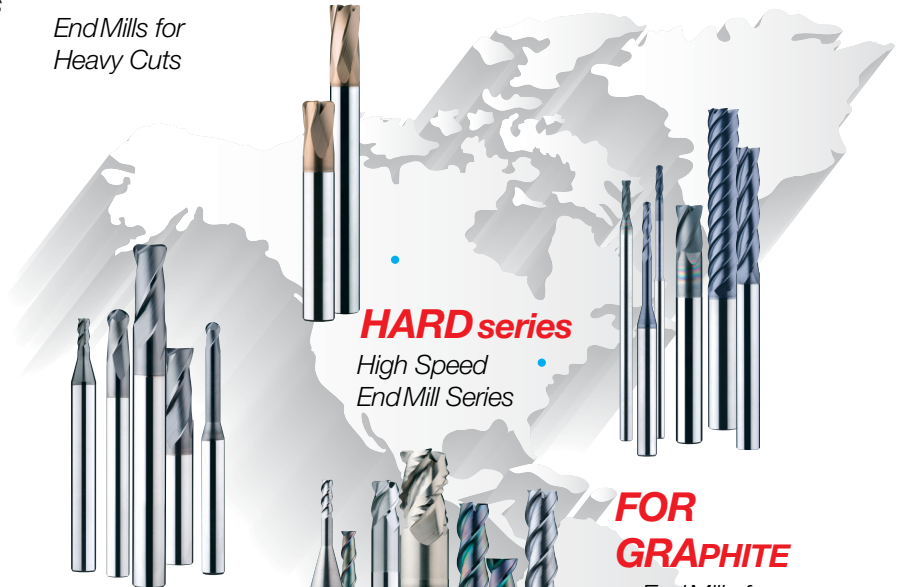
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