



01245 260414 - 250910



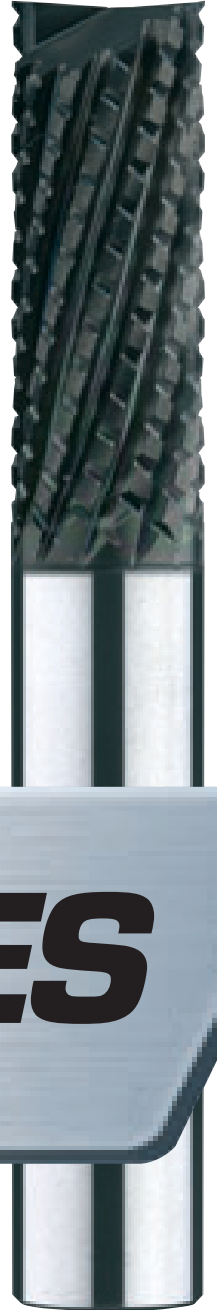
[sales@smarttoolsuk.com](mailto:sales@smarttoolsuk.com)



[www.smarttoolsuk.com](http://www.smarttoolsuk.com)

***LOW***  
***Price***

***HIGH***  
***Performance***



***CFRP - SERIES***



**LOW Price**

**HIGH Performance**



Leading tools for machining of composite materials

**FOR COMPOSITE**

**For Composite Materials**

(CFRP, GFRP)

Endmills for CFRP, GFRP, copper, copper alloy, glass/carbon fiber, nonferrous and non-metallic materials.

- Outstanding performance in machining of various composite materials.
- Excellent wear resistance by applying high hardness coating layer.
- Minimize built up edge by low friction diamond coating.



Ultra fine surface after machining Tetrabond TAC

**G-TAC G-TAC**

**Tetrabond TAC Coated End Mills**

(CFRP, GFRP)

End Mills for Aluminum, Aluminum alloy, copper, copper alloy, CFRP, GFRP, glass/carbon fiber, nonferrous and non-metallic materials.

- Tetrabond TAC coating provides excellent work surface finish by high hardness and low friction.
- High precise edge tolerance.
- Minimize fracturing by high TRS fine(0.5<sup>μm</sup>) WC grade.



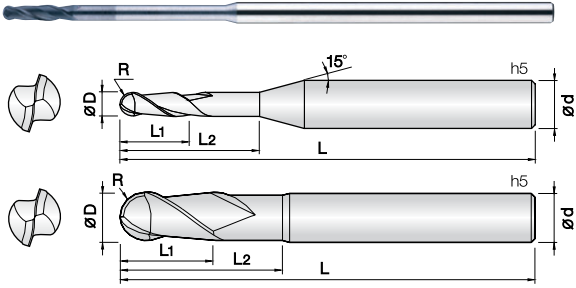
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- Endmills for Graphite, reinforced plastic, carbon fiber, Non-ferrous and non-metallic materials.
- Excellent wear resistance by applying qualified CVD diamond coating.
- Wide range products prepared for various work shape and excellent performance.



0.1 ~ 6R

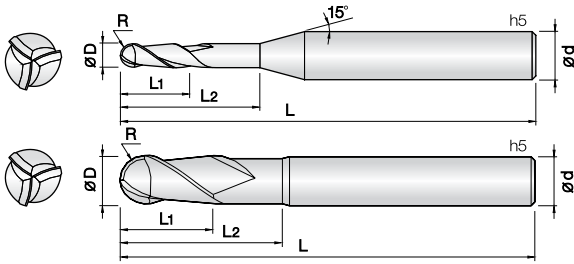
D Size	D Tolerance
ø.2 ~ 12	+0 ~ -0.02mm

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
2DBE 002 010 S04	0.1R X 0.2	1	-	45	4	2DBE 010 400 S04	0.5R X 1	3	40	80	4
2DBE 003 012 S04	0.15R X 0.3	1.2	-	45	4	New 2DBE 010 450 S04	0.5R X 1	3	45	80	4
2DBE 003 020 S04	0.15R X 0.3	1.2	2	45	4	New 2DBE 010 500 S04	0.5R X 1	3	50	80	4
2DBE 004 015 S04	0.2R X 0.4	1.5	-	45	4	2DBE 015 050 S04	0.75R X 1.5	5	-	60	4
2DBE 004 020 S04	0.2R X 0.4	1.5	2	45	4	2DBE 015 080 S04	0.75R X 1.5	5	8	80	4
2DBE 004 030 S04	0.2R X 0.4	1.5	3	45	4	2DBE 015 100 S04	0.75R X 1.5	5	10	80	4
2DBE 004 040 S04	0.2R X 0.4	1.5	4	45	4	2DBE 015 120 S04	0.75R X 1.5	5	12	80	4
2DBE 004 050 S04	0.2R X 0.4	1.5	5	45	4	2DBE 015 150 S04	0.75R X 1.5	5	15	80	4
New 2DBE 004 080 S04	0.2R X 0.4	1.5	8	45	4	2DBE 015 180 S04	0.75R X 1.5	5	18	80	4
New 2DBE 004 100 S04	0.2R X 0.4	1.5	10	45	4	2DBE 015 200 S04	0.75R X 1.5	5	20	80	4
2DBE 005 020 S04	0.25R X 0.5	2	-	45	4	2DBE 015 250 S04	0.75R X 1.5	5	25	80	4
2DBE 005 030 S04	0.25R X 0.5	2	3	45	4	2DBE 015 300 S04	0.75R X 1.5	5	30	80	4
2DBE 005 040 S04	0.25R X 0.5	2	4	45	4	2DBE 015 350 S04	0.75R X 1.5	5	35	80	4
2DBE 005 050 S04	0.25R X 0.5	2	5	45	4	2DBE 015 400 S04	0.75R X 1.5	5	40	80	4
2DBE 005 060 S04	0.25R X 0.5	2	6	45	4	2DBE 020 060 S04	1R X 2	6	-	60	4
2DBE 005 080 S04	0.25R X 0.5	2	8	45	4	2DBE 020 100 S04	1R X 2	6	10	80	4
New 2DBE 005 100 S04	0.25R X 0.5	2	10	45	4	2DBE 020 150 S04	1R X 2	6	15	80	4
New 2DBE 005 120 S04	0.25R X 0.5	2	12	45	4	2DBE 020 200 S04	1R X 2	6	20	80	4
2DBE 006 020 S04	0.3R X 0.6	2	-	45	4	2DBE 020 250 S04	1R X 2	6	25	80	4
2DBE 006 030 S04	0.3R X 0.6	2	3	45	4	2DBE 020 300 S04	1R X 2	6	30	80	4
2DBE 006 040 S04	0.3R X 0.6	2	4	45	4	2DBE 020 350 S04	1R X 2	6	35	80	4
2DBE 006 050 S04	0.3R X 0.6	2	5	45	4	2DBE 020 400 S04	1R X 2	6	40	100	4
2DBE 006 060 S04	0.3R X 0.6	2	6	45	4	2DBE 020 450 S04	1R X 2	6	45	100	4
2DBE 006 080 S04	0.3R X 0.6	2	8	45	4	2DBE 020 500 S04	1R X 2	6	50	100	4
2DBE 006 100 S04	0.3R X 0.6	2	10	45	4	2DBE 020 600 S04	1R X 2	6	60	100	4
2DBE 006 120 S04	0.3R X 0.6	2	12	45	4	New 2DBE 020 700 S04	1R X 2	6	70	100	4
New 2DBE 006 150 S04	0.3R X 0.6	2	15	45	4	2DBE 030 150 100	1.5R X 3	8	15	100	3
New 2DBE 006 200 S04	0.3R X 0.6	2	20	45	4	2DBE 030 080 S04	1.5R X 3	8	-	60	4
2DBE 008 030 S04	0.4R X 0.8	3	-	45	4	2DBE 030 150 S04	1.5R X 3	8	15	100	4
2DBE 008 040 S04	0.4R X 0.8	3	4	45	4	2DBE 030 200 S04	1.5R X 3	8	20	100	4
2DBE 008 050 S04	0.4R X 0.8	3	5	45	4	2DBE 030 250 S04	1.5R X 3	8	25	100	4
2DBE 008 060 S04	0.4R X 0.8	3	6	45	4	2DBE 030 300 S04	1.5R X 3	8	30	100	4
2DBE 008 080 S04	0.4R X 0.8	3	8	45	4	2DBE 030 350 S04	1.5R X 3	8	35	100	4
2DBE 008 100 S04	0.4R X 0.8	3	10	45	4	2DBE 030 400 S04	1.5R X 3	8	40	100	4
2DBE 008 150 S04	0.4R X 0.8	3	15	45	4	2DBE 030 500 S04	1.5R X 3	8	50	100	4
2DBE 008 200 S04	0.4R X 0.8	3	20	45	4	2DBE 030 600 S04	1.5R X 3	8	60	100	4
2DBE 010 030 S04	0.5R X 1	3	-	60	4	New 2DBE 030 700 S04	1.5R X 3	8	70	100	4
2DBE 010 040 S04	0.5R X 1	3	4	60	4	New 2DBE 040 040 060	2R X 4	4	-	60	4
2DBE 010 050 S04	0.5R X 1	3	5	60	4	2DBE 040 160 060	2R X 4	16	-	60	4
2DBE 010 060 S04	0.5R X 1	3	6	60	4	2DBE 040 160 080	2R X 4	16	-	80	4
2DBE 010 080 S04	0.5R X 1	3	8	60	4	2DBE 040 300 080	2R X 4	16	30	80	4
2DBE 010 100 S04	0.5R X 1	3	10	60	4	2DBE 040 160 100	2R X 4	16	-	100	4
2DBE 010 120 S04	0.5R X 1	3	12	60	4	2DBE 040 400 100	2R X 4	16	40	100	4
2DBE 010 150 S04	0.5R X 1	3	15	60	4	2DBE 040 160 130	2R X 4	16	-	130	4
2DBE 010 200 S04	0.5R X 1	3	20	60	4	2DBE 040 400 130	2R X 4	16	40	130	4
2DBE 010 250 S04	0.5R X 1	3	25	80	4	2DBE 040 160 150	2R X 4	16	-	150	4
2DBE 010 300 S04	0.5R X 1	3	30	80	4	2DBE 040 500 150	2R X 4	16	50	150	4
New 2DBE 010 350 S04	0.5R X 1	3	35	80	4	New 2DBE 050 160 110	2.5R X 5	16	-	110	5







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0.5 ~ 6R

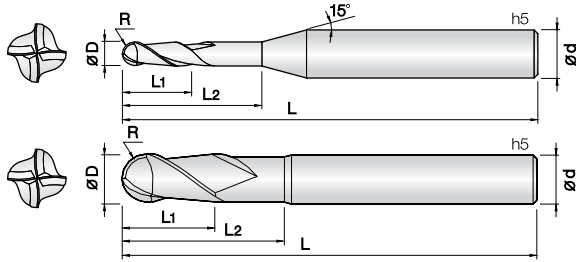
D Size	D Tolerance
Ø1 ~ 12	+0 ~ -0.02mm

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
3DBE 010 030 S04	0.5R X 1	3	-	60	4	3DBE 060 400 110	3R X 6	16	40	110	6
3DBE 010 050 S04	0.5R X 1	3	5	60	4	3DBE 060 300 150	3R X 6	16	30	150	6
3DBE 010 100 S04	0.5R X 1	3	10	60	4	3DBE 060 500 150	3R X 6	16	50	150	6
3DBE 010 150 S04	0.5R X 1	3	15	60	4	3DBE 060 500 180	3R X 6	16	50	180	6
3DBE 010 200 S04	0.5R X 1	3	20	60	4	3DBE 080 400 110	4R X 8	20	40	110	8
New 3DBE 010 250 S04	0.5R X 1	3	25	80	4	3DBE 080 500 150	4R X 8	20	50	150	8
New 3DBE 010 300 S04	0.5R X 1	3	30	80	4	3DBE 100 400 110	5R X 10	22	40	110	10
New 3DBE 010 350 S04	0.5R X 1	3	35	80	4	3DBE 100 600 160	5R X 10	22	60	160	10
New 3DBE 010 400 S04	0.5R X 1	3	40	80	4	3DBE 120 500 110	6R X 12	25	50	110	12
New 3DBE 010 450 S04	0.5R X 1	3	45	80	4	3DBE 120 500 160	6R X 12	25	50	160	12
New 3DBE 010 500 S04	0.5R X 1	3	50	80	4	3DBE 120 600 200	6R X 12	25	60	200	12
3DBE 015 050 S04	0.75R X 1.5	5	-	60	4						
3DBE 015 100 S04	0.75R X 1.5	5	10	80	4						
3DBE 015 150 S04	0.75R X 1.5	5	15	80	4						
3DBE 015 200 S04	0.75R X 1.5	5	20	80	4						
New 3DBE 015 250 S04	0.75R X 1.5	8	25	80	4						
New 3DBE 015 300 S04	0.75R X 1.5	8	30	80	4						
New 3DBE 015 350 S04	0.75R X 1.5	8	35	80	4						
New 3DBE 015 400 S04	0.75R X 1.5	8	40	80	4						
New 3DBE 015 450 S04	0.75R X 1.5	8	45	80	4						
New 3DBE 015 500 S04	0.75R X 1.5	8	50	80	4						
3DBE 020 060 S04	1R X 2	6	-	60	4						
3DBE 020 100 S04	1R X 2	6	10	80	4						
3DBE 020 150 S04	1R X 2	6	15	80	4						
3DBE 020 200 S04	1R X 2	6	20	80	4						
3DBE 020 250 S04	1R X 2	6	25	80	4						
3DBE 020 300 S04	1R X 2	6	30	80	4						
3DBE 020 350 S04	1R X 2	6	35	80	4						
3DBE 020 400 S04	1R X 2	6	40	80	4						
New 3DBE 020 500 S04	1R X 2	6	50	100	4						
New 3DBE 020 600 S04	1R X 2	6	60	100	4						
New 3DBE 020 700 S04	1R X 2	6	70	100	4						
3DBE 030 150 100	1.5R X 3	8	15	100	3						
3DBE 030 080 S04	1.5R X 3	8	-	60	4						
3DBE 030 150 S04	1.5R X 3	8	15	100	4						
3DBE 030 200 S04	1.5R X 3	8	20	100	4						
3DBE 030 300 S04	1.5R X 3	8	30	100	4						
3DBE 030 400 S04	1.5R X 3	8	40	100	4						
3DBE 030 500 S04	1.5R X 3	8	50	100	4						
3DBE 040 160 080	2R X 4	16	-	80	4						
3DBE 040 300 080	2R X 4	16	30	80	4						
3DBE 040 160 100	2R X 4	16	-	100	4						
3DBE 040 400 100	2R X 4	16	40	100	4						
3DBE 040 160 130	2R X 4	16	-	130	4						
3DBE 040 400 130	2R X 4	16	40	130	4						
New 3DBE 050 160 110	2.5R X 5	16	-	110	5						
New 3DBE 050 400 110	2.5R X 5	16	40	110	5						
3DBE 060 250 110	3R X 6	16	25	110	6						







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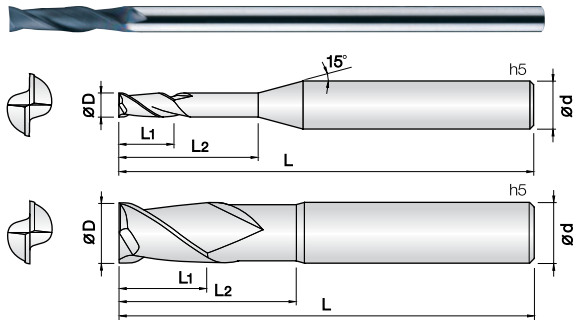
0.5 ~ 6R

D Size	D Tolerance
Ø1 ~ 12	+0 ~ -0.02mm

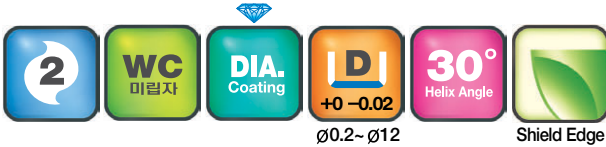
: mm

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
4DBE 010 030 S04	0.5R X 1	3	-	60	4	4DBE 100 350 080	5R X 10	22	35	80	10
4DBE 010 050 S04	0.5R X 1	3	5	60	4	4DBE 100 350 110	5R X 10	22	35	110	10
4DBE 010 100 S04	0.5R X 1	3	10	60	4	4DBE 100 400 160	5R X 10	22	40	160	10
4DBE 010 150 S04	0.5R X 1	3	15	60	4	4DBE 100 500 200	5R X 10	22	50	200	10
4DBE 010 200 S04	0.5R X 1	3	20	60	4	4DBE 120 500 110	6R X 12	25	50	110	12
4DBE 010 250 S04	0.5R X 1	3	25	60	4	4DBE 120 500 160	6R X 12	25	50	160	12
New 4DBE 010 300 S04	0.5R X 1	4.5	30	80	4	4DBE 120 600 200	6R X 12	25	60	200	12
New 4DBE 010 350 S04	0.5R X 1	4.5	35	80	4						
New 4DBE 010 400 S04	0.5R X 1	4.5	40	80	4						
New 4DBE 010 450 S04	0.5R X 1	4.5	45	80	4						
New 4DBE 010 500 S04	0.5R X 1	4.5	50	80	4						
4DBE 015 045 S04	0.75R X 1.5	4.5	-	60	4						
4DBE 015 100 S04	0.75R X 1.5	4.5	10	60	4						
4DBE 015 150 S04	0.75R X 1.5	4.5	15	60	4						
4DBE 015 200 S04	0.75R X 1.5	4.5	20	60	4						
4DBE 015 250 S04	0.75R X 1.5	4.5	25	60	4						
New 4DBE 015 300 S04	0.75R X 1.5	4.5	30	80	4						
New 4DBE 015 350 S04	0.75R X 1.5	4.5	35	80	4						
New 4DBE 015 400 S04	0.75R X 1.5	4.5	40	80	4						
New 4DBE 015 450 S04	0.75R X 1.5	4.5	45	80	4						
New 4DBE 015 500 S04	0.75R X 1.5	4.5	50	80	4						
4DBE 020 060 S04	1R X 2	6	-	60	4						
4DBE 020 100 S04	1R X 2	6	10	80	4						
4DBE 020 200 S04	1R X 2	6	20	80	4						
4DBE 020 300 S04	1R X 2	6	30	80	4						
4DBE 020 400 S04	1R X 2	6	40	80	4						
New 4DBE 020 500 S04	1R X 2	6	50	100	4						
New 4DBE 020 600 S04	1R X 2	6	60	100	4						
New 4DBE 020 700 S04	1R X 2	6	70	100	4						
4DBE 030 080 S04	1.5R X 3	8	-	60	4						
4DBE 030 150 S04	1.5R X 3	8	15	100	4						
4DBE 030 200 S04	1.5R X 3	8	20	100	4						
4DBE 030 300 S04	1.5R X 3	8	30	100	4						
4DBE 030 400 S04	1.5R X 3	8	40	100	4						
4DBE 030 500 S04	1.5R X 3	8	50	100	4						
New 4DBE 030 600 S04	1.5R X 3	8	60	100	4						
New 4DBE 030 700 S04	1.5R X 3	8	70	100	4						
4DBE 040 160 060	2R X 4	16	-	60	4						
4DBE 040 160 080	2R X 4	16	-	80	4						
4DBE 040 160 100	2R X 4	16	-	100	4						
4DBE 040 160 130	2R X 4	16	-	130	4						
4DBE 060 250 080	3R X 6	16	25	80	6						
4DBE 060 250 110	3R X 6	16	25	110	6						
4DBE 060 300 150	3R X 6	16	30	150	6						
4DBE 080 300 080	4R X 8	20	30	80	8						
4DBE 080 300 110	4R X 8	20	30	110	8						
4DBE 080 350 150	4R X 8	20	35	150	8						
4DBE 080 400 200	4R X 8	20	40	200	8						





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D Size	D Tolerance
ø0.2 ~ 12	+0 ~ -0.02mm

mm

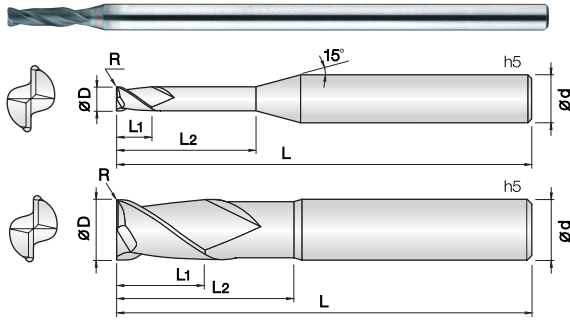
Order Number	Diameter D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	Order Number	Diameter D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2DEM 002 004 S04	0.2	0.4	-	45	4	2DEM 030 400 S04	3	12	40	80	4
2DEM 003 006 S04	0.3	0.6	-	45	4	New 2DEM 030 500 S04	3	12	50	80	4
New 2DEM 003 020 S04	0.3	0.6	2	45	4	2DEM 040 120 S06	4	12	-	50	6
New 2DEM 003 040 S04	0.3	0.6	4	45	4	2DEM 040 160 080	4	16	-	80	4
2DEM 004 008 S04	0.4	0.8	-	45	4	2DEM 050 150 S06	5	15	-	60	6
New 2DEM 004 020 S04	0.4	0.8	2	45	4	2DEM 050 200 S06	5	20	-	110	6
New 2DEM 004 040 S04	0.4	0.8	4	45	4	2DEM 060 180 S06	6	18	-	60	6
2DEM 005 010 S04	0.5	1	-	45	4	2DEM 060 250 110	6	25	-	110	6
New 2DEM 005 030 S04	0.5	1	3	45	4	2DEM 060 250 150	6	25	-	150	6
New 2DEM 005 050 S04	0.5	1	5	45	4	2DEM 080 240 S08	8	24	-	70	8
2DEM 006 012 S04	0.6	1.2	-	45	4	2DEM 080 400 150	8	25	40	150	8
New 2DEM 006 030 S04	0.6	1.2	3	45	4	2DEM 100 250 S10	10	25	-	80	10
New 2DEM 006 050 S04	0.6	1.2	5	45	4	2DEM 100 500 160	10	25	50	160	10
2DEM 007 015 S04	0.7	1.5	-	45	4	2DEM 120 250 S12	12	25	-	80	12
New 2DEM 007 040 S04	0.7	1.5	4	45	4	2DEM 120 600 160	12	25	60	160	12
New 2DEM 007 060 S04	0.7	1.5	6	45	4						
New 2DEM 007 080 S04	0.7	1.5	8	45	4						
2DEM 008 020 S04	0.8	2	-	45	4						
2DEM 009 025 S04	0.9	2.5	-	45	4						
2DEM 010 030 S04	1	3	-	60	4						
2DEM 010 032 S04	1	3.2	-	45	4						
2DEM 010 050 S04	1	3	5	60	4						
2DEM 010 100 S04	1	3	10	60	4						
2DEM 010 150 S04	1	3	15	60	4						
2DEM 010 200 S04	1	3	20	60	4						
2DEM 010 250 S04	1	3	25	60	4						
New 2DEM 010 300 S04	1	3	30	60	4						
2DEM 015 060 S04	1.5	6	-	60	4						
2DEM 015 100 S04	1.5	6	10	60	4						
2DEM 015 150 S04	1.5	6	15	60	4						
2DEM 015 200 S04	1.5	6	20	60	4						
2DEM 015 250 S04	1.5	6	25	60	4						
New 2DEM 015 300 S04	1.5	6	30	60	4						
2DEM 020 060 S04	2	6	-	45	4						
2DEM 020 080 S04	2	8	-	80	4						
2DEM 020 120 S04	2	8	12	80	4						
2DEM 020 150 S04	2	8	15	80	4						
2DEM 020 200 S04	2	8	20	80	4						
2DEM 020 250 S04	2	8	25	80	4						
2DEM 020 300 S04	2	8	30	80	4						
2DEM 020 400 S04	2	8	40	80	4						
New 2DEM 020 450 S04	2	8	45	80	4						
New 2DEM 020 500 S04	2	8	50	80	4						
2DEM 030 090 S06	3	9	-	50	6						
2DEM 030 120 S04	3	12	-	80	4						
2DEM 030 200 S04	3	12	20	80	4						
2DEM 030 250 S04	3	12	25	80	4						
2DEM 030 300 S04	3	12	30	80	4						











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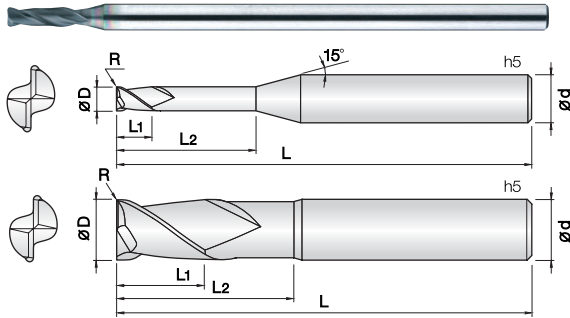
R0.02 ~ 1

D Size	D Tolerance
Ø0.2 ~ 6	+0 ~ -0.02mm

: 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
2DCR 002 0002 015	0.2 X R0.02	0.5	1.5	60	4	2DCR 015 001 150	1.5 X R0.1	3	15	60	4
2DCR 003 0002 015	0.3 X R0.02	0.6	1.5	60	4	2DCR 015 001 200	1.5 X R0.1	3	20	60	4
2DCR 003 0002 030	0.3 X R0.02	0.6	3	60	4	2DCR 015 0015 030	1.5 X R0.15	3	-	60	4
2DCR 003 0002 045	0.3 X R0.02	0.6	4.5	60	4	2DCR 015 0015 050	1.5 X R0.15	3	5	60	4
2DCR 003 0002 060	0.3 X R0.02	0.6	6	60	4	2DCR 015 0015 100	1.5 X R0.15	3	10	60	4
2DCR 004 0002 020	0.4 X R0.02	0.8	2	60	4	2DCR 015 0015 150	1.5 X R0.15	3	15	60	4
2DCR 004 0002 040	0.4 X R0.02	0.8	4	60	4	2DCR 015 0015 200	1.5 X R0.15	3	20	60	4
2DCR 004 0002 060	0.4 X R0.02	0.8	6	60	4	2DCR 015 002 030	1.5 X R0.2	3	-	60	4
2DCR 004 0002 080	0.4 X R0.02	0.8	8	60	4	2DCR 015 002 050	1.5 X R0.2	3	5	60	4
2DCR 005 0005 010	0.5 X R0.05	1	-	60	4	2DCR 015 002 100	1.5 X R0.2	3	10	60	4
2DCR 005 0005 025	0.5 X R0.05	1	2.5	60	4	2DCR 015 002 150	1.5 X R0.2	3	15	60	4
2DCR 005 0005 035	0.5 X R0.05	1	3.5	60	4	2DCR 015 002 200	1.5 X R0.2	3	20	60	4
2DCR 005 0005 050	0.5 X R0.05	1	5	60	4	2DCR 015 003 030	1.5 X R0.3	3	-	60	4
2DCR 005 0005 075	0.5 X R0.05	1	7.5	60	4	2DCR 015 003 050	1.5 X R0.3	3	5	60	4
2DCR 005 0005 100	0.5 X R0.05	1	10	60	4	2DCR 015 003 100	1.5 X R0.3	3	10	60	4
2DCR 006 0005 012	0.6 X R0.05	1.2	-	60	4	2DCR 015 003 150	1.5 X R0.3	3	15	60	4
2DCR 006 0005 030	0.6 X R0.05	1.2	3	60	4	2DCR 015 003 200	1.5 X R0.3	3	20	60	4
2DCR 006 0005 060	0.6 X R0.05	1.2	6	60	4	2DCR 020 0005 035	2 X R0.05	3.5	-	60	4
2DCR 006 0005 090	0.6 X R0.05	1.2	9	60	4	2DCR 020 0005 060	2 X R0.05	3.5	6	60	4
2DCR 006 0005 120	0.6 X R0.05	1.2	12	60	4	2DCR 020 0005 120	2 X R0.05	3.5	12	60	4
2DCR 008 0005 016	0.8 X R0.05	1.6	-	60	4	2DCR 020 0005 180	2 X R0.05	3.5	18	60	4
2DCR 008 0005 040	0.8 X R0.05	1.6	4	60	4	2DCR 020 0005 250	2 X R0.05	3.5	25	60	4
2DCR 008 0005 080	0.8 X R0.05	1.6	8	60	4	2DCR 020 0005 300	2 X R0.05	3.5	30	60	4
2DCR 008 0005 100	0.8 X R0.05	1.6	10	60	4	2DCR 020 002 035	2 X R0.2	3.5	-	60	4
2DCR 008 0005 160	0.8 X R0.05	1.6	16	60	4	2DCR 020 002 060	2 X R0.2	3.5	6	60	4
2DCR 010 0005 020	1 X R0.05	2	-	60	4	2DCR 020 002 120	2 X R0.2	3.5	12	60	4
2DCR 010 0005 050	1 X R0.05	2	5	60	4	2DCR 020 002 180	2 X R0.2	3.5	18	60	4
2DCR 010 0005 100	1 X R0.05	2	10	60	4	2DCR 020 002 250	2 X R0.2	3.5	25	60	4
2DCR 010 0005 150	1 X R0.05	2	15	60	4	2DCR 020 002 300	2 X R0.2	3.5	30	60	4
2DCR 010 0005 200	1 X R0.05	2	20	60	4	2DCR 020 003 035	2 X R0.3	3.5	-	60	4
2DCR 010 001 020	1 X R0.1	2	-	60	4	2DCR 020 003 060	2 X R0.3	3.5	6	60	4
2DCR 010 001 050	1 X R0.1	2	5	60	4	2DCR 020 003 120	2 X R0.3	3.5	12	60	4
2DCR 010 001 100	1 X R0.1	2	10	60	4	2DCR 020 003 180	2 X R0.3	3.5	18	60	4
2DCR 010 001 150	1 X R0.1	2	15	60	4	2DCR 020 003 250	2 X R0.3	3.5	25	60	4
2DCR 010 001 200	1 X R0.1	2	20	60	4	2DCR 020 003 300	2 X R0.3	3.5	30	60	4
2DCR 010 002 020	1 X R0.2	2	-	60	4	2DCR 020 005 035	2 X R0.5	3.5	-	60	4
2DCR 010 002 050	1 X R0.2	2	5	60	4	2DCR 020 005 060	2 X R0.5	3.5	6	60	4
2DCR 010 002 100	1 X R0.2	2	10	60	4	2DCR 020 005 120	2 X R0.5	3.5	12	60	4
2DCR 010 002 150	1 X R0.2	2	15	60	4	2DCR 020 005 180	2 X R0.5	3.5	18	60	4
2DCR 010 002 200	1 X R0.2	2	20	60	4	2DCR 020 005 250	2 X R0.5	3.5	25	60	4
2DCR 015 0005 030	1.5 X R0.05	3	-	60	4	2DCR 020 005 300	2 X R0.5	3.5	30	60	4
2DCR 015 0005 050	1.5 X R0.05	3	5	60	4	2DCR 030 0005 040	3 X R0.05	4	-	80	4
2DCR 015 0005 100	1.5 X R0.05	3	10	60	4	2DCR 030 0005 100	3 X R0.05	4	10	80	4
2DCR 015 0005 150	1.5 X R0.05	3	15	60	4	2DCR 030 0005 200	3 X R0.05	4	20	80	4
2DCR 015 0005 200	1.5 X R0.05	3	20	60	4	2DCR 030 0005 300	3 X R0.05	4	30	80	4
2DCR 015 001 030	1.5 X R0.1	3	-	60	4	2DCR 030 0005 400	3 X R0.05	4	40	80	4
2DCR 015 001 050	1.5 X R0.1	3	5	60	4	2DCR 030 002 040	3 X R0.2	4	-	80	4
2DCR 015 001 100	1.5 X R0.1	3	10	60	4	2DCR 030 002 100	3 X R0.2	4	10	80	4



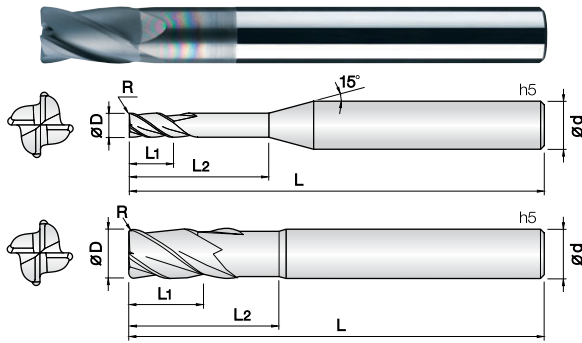


- Endmills for Graphite, reinforced plastic, carbon fiber, Non-ferrous and non-metallic materials.
- Excellent wear resistance by applying qualified CVD diamond coating.
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mm

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
2DCR 030 002 200	3 X R0.2	4	20	80	4	2DCR 060 0005 300	6 X R0.05	7	30	110	6
2DCR 030 002 300	3 X R0.2	4	30	80	4	2DCR 060 0005 500	6 X R0.05	7	50	110	6
2DCR 030 002 400	3 X R0.2	4	40	80	4	2DCR 060 002 070	6 X R0.2	7	-	110	6
2DCR 030 003 040	3 X R0.3	4	-	80	4	2DCR 060 002 200	6 X R0.2	7	20	110	6
2DCR 030 003 100	3 X R0.3	4	10	80	4	2DCR 060 002 300	6 X R0.2	7	30	110	6
2DCR 030 003 200	3 X R0.3	4	20	80	4	2DCR 060 002 500	6 X R0.2	7	50	110	6
2DCR 030 003 300	3 X R0.3	4	30	80	4	2DCR 060 005 070	6 X R0.5	7	-	110	6
2DCR 030 003 400	3 X R0.3	4	40	80	4	2DCR 060 005 200	6 X R0.5	7	20	110	6
2DCR 030 005 040	3 X R0.5	4	-	80	4	2DCR 060 005 300	6 X R0.5	7	30	110	6
2DCR 030 005 100	3 X R0.5	4	10	80	4	2DCR 060 005 500	6 X R0.5	7	50	110	6
2DCR 030 005 200	3 X R0.5	4	20	80	4	2DCR 060 010 070	6 X R1	7	-	110	6
2DCR 030 005 300	3 X R0.5	4	30	80	4	2DCR 060 010 200	6 X R1	7	20	110	6
2DCR 030 005 400	3 X R0.5	4	40	80	4	2DCR 060 010 300	6 X R1	7	30	110	6
2DCR 030 010 040	3 X R1	4	-	80	4	2DCR 060 010 500	6 X R1	7	50	110	6
2DCR 030 010 100	3 X R1	4	10	80	4						
2DCR 030 010 200	3 X R1	4	20	80	4						
2DCR 030 010 300	3 X R1	4	30	80	4						
2DCR 030 010 400	3 X R1	4	40	80	4						
2DCR 040 0005 050	4 X R0.05	5	-	80	4						
2DCR 040 0005 150	4 X R0.05	5	15	80	4						
2DCR 040 0005 250	4 X R0.05	5	25	80	4						
2DCR 040 0005 400	4 X R0.05	5	40	80	4						
2DCR 040 002 050	4 X R0.2	5	-	80	4						
2DCR 040 002 150	4 X R0.2	5	15	80	4						
2DCR 040 002 250	4 X R0.2	5	25	80	4						
2DCR 040 002 400	4 X R0.2	5	40	80	4						
2DCR 040 005 050	4 X R0.5	5	-	80	4						
2DCR 040 005 150	4 X R0.5	5	15	80	4						
2DCR 040 005 250	4 X R0.5	5	25	80	4						
2DCR 040 005 400	4 X R0.5	5	40	80	4						
2DCR 040 010 050	4 X R1	5	-	80	4						
2DCR 040 010 150	4 X R1	5	15	80	4						
2DCR 040 010 250	4 X R1	5	25	80	4						
2DCR 040 010 400	4 X R1	5	40	80	4						
2DCR 050 0005 060	5 X R0.05	6	-	110	6						
2DCR 050 0005 150	5 X R0.05	6	15	110	6						
2DCR 050 0005 300	5 X R0.05	6	30	110	6						
2DCR 050 0005 500	5 X R0.05	6	50	110	6						
2DCR 050 002 060	5 X R0.2	6	-	110	6						
2DCR 050 002 150	5 X R0.2	6	15	110	6						
2DCR 050 002 300	5 X R0.2	6	30	110	6						
2DCR 050 002 500	5 X R0.2	6	50	110	6						
2DCR 050 005 060	5 X R0.5	6	-	110	6						
2DCR 050 005 150	5 X R0.5	6	15	110	6						
2DCR 050 005 300	5 X R0.5	6	30	110	6						
2DCR 050 005 500	5 X R0.5	6	50	110	6						
2DCR 060 0005 070	6 X R0.05	7	-	110	6						
2DCR 060 0005 200	6 X R0.05	7	20	110	6						





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R0.05 ~ 1

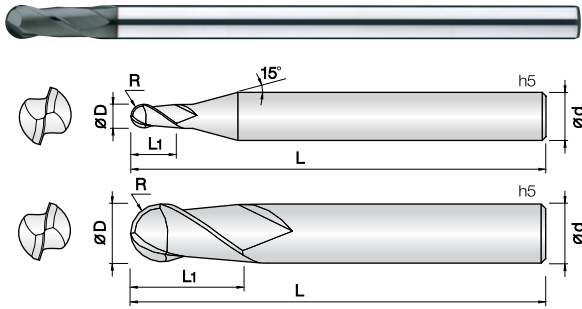
D Size	D Tolerance
Ø0.2 ~ 6	+0 ~ -0.02mm

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
4DCR 020 0005 035	2 X R0.05	3.5	-	60	4	4DCR 030 010 400	3 X R1	4	40	80	4
4DCR 020 0005 060	2 X R0.05	3.5	6	60	4	4DCR 040 003 100	4 X R0.3	6	20	100	4
4DCR 020 0005 120	2 X R0.05	3.5	12	60	4	4DCR 040 005 100	4 X R0.5	6	20	100	4
4DCR 020 0005 180	2 X R0.05	3.5	18	60	4	4DCR 040 010 100	4 X R1	6	20	100	4
4DCR 020 0005 250	2 X R0.05	3.5	25	60	4	4DCR 060 003 110	6 X R0.3	9	25	110	6
4DCR 020 0005 300	2 X R0.05	3.5	30	60	4	4DCR 060 005 110	6 X R0.5	9	25	110	6
4DCR 020 002 035	2 X R0.2	3.5	-	60	4	4DCR 060 005 150	6 X R0.5	9	30	150	6
4DCR 020 002 060	2 X R0.2	3.5	6	60	4	4DCR 060 010 110	6 X R1	9	25	110	6
4DCR 020 002 120	2 X R0.2	3.5	12	60	4	4DCR 060 010 150	6 X R1	9	30	150	6
4DCR 020 002 180	2 X R0.2	3.5	18	60	4	4DCR 080 003 110	8 X R0.3	12	30	110	8
4DCR 020 002 250	2 X R0.2	3.5	25	60	4	4DCR 080 005 110	8 X R0.5	12	30	110	8
4DCR 020 002 300	2 X R0.2	3.5	30	60	4	4DCR 080 005 150	8 X R0.5	12	40	150	8
4DCR 020 003 035	2 X R0.3	3.5	-	60	4	4DCR 080 010 110	8 X R1	12	30	110	8
4DCR 020 003 060	2 X R0.3	3.5	6	60	4	4DCR 080 010 150	8 X R1	12	40	150	8
4DCR 020 003 120	2 X R0.3	3.5	12	60	4	4DCR 100 005 110	10 X R0.5	15	35	110	10
4DCR 020 003 180	2 X R0.3	3.5	18	60	4	4DCR 100 005 160	10 X R0.5	15	45	160	10
4DCR 020 003 250	2 X R0.3	3.5	25	60	4	4DCR 100 010 110	10 X R1	15	35	110	10
4DCR 020 003 300	2 X R0.3	3.5	30	60	4	4DCR 100 010 160	10 X R1	15	45	160	10
4DCR 020 005 035	2 X R0.5	3.5	-	60	4	4DCR 120 005 110	12 X R0.5	18	40	110	12
4DCR 020 005 060	2 X R0.5	3.5	6	60	4	4DCR 120 005 160	12 X R0.5	18	45	160	12
4DCR 020 005 120	2 X R0.5	3.5	12	60	4	4DCR 120 010 110	12 X R1	18	40	110	12
4DCR 020 005 180	2 X R0.5	3.5	18	60	4	4DCR 120 010 160	12 X R1	18	45	160	12
4DCR 020 005 250	2 X R0.5	3.5	25	60	4						
4DCR 020 005 300	2 X R0.5	3.5	30	60	4						
4DCR 030 0005 040	3 X R0.05	4	-	80	4						
4DCR 030 0005 100	3 X R0.05	4	10	80	4						
4DCR 030 0005 200	3 X R0.05	4	20	80	4						
4DCR 030 0005 300	3 X R0.05	4	30	80	4						
4DCR 030 0005 400	3 X R0.05	4	40	80	4						
4DCR 030 002 040	3 X R0.2	4	-	80	4						
4DCR 030 002 100	3 X R0.2	4	10	80	4						
4DCR 030 002 200	3 X R0.2	4	20	80	4						
4DCR 030 002 300	3 X R0.2	4	30	80	4						
4DCR 030 002 400	3 X R0.2	4	40	80	4						
4DCR 030 003 040	3 X R0.3	4	-	80	4						
4DCR 030 003 100	3 X R0.3	4	10	80	4						
4DCR 030 003 200	3 X R0.3	4	20	80	4						
4DCR 030 003 300	3 X R0.3	4	30	80	4						
4DCR 030 003 400	3 X R0.3	4	40	80	4						
4DCR 030 005 040	3 X R0.5	4	-	80	4						
4DCR 030 005 100	3 X R0.5	4	10	80	4						
4DCR 030 005 200	3 X R0.5	4	20	80	4						
4DCR 030 005 300	3 X R0.5	4	30	80	4						
4DCR 030 005 400	3 X R0.5	4	40	80	4						
4DCR 030 010 040	3 X R1	4	-	80	4						
4DCR 030 010 100	3 X R1	4	10	80	4						
4DCR 030 010 200	3 X R1	4	20	80	4						
4DCR 030 010 300	3 X R1	4	30	80	4						



# 2CPB 2 Flutes Ball End Mills for Composite



- Endmills for CFRP, GFRP, glass/carbon fiber, nonferrous and non-metallic materials.
- Outstanding performance in machining of various composite materials.
- Excellent wear resistance by applying high hardness coating layer.
- Minimize built up edge by low friction diamond coating technology.

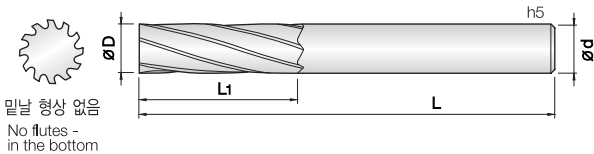
0.25 ~ 0.5R    0.75 ~ 6R

D Size	D Tolerance
ø0.5 ~ 1	+0 ~ -0.01mm
ø1.5 ~ 12	-0.005 ~ -0.02mm

mm

Order Number	Diameter R x D	Length of cut L1	Overall Length L	Shank Dia d	Order Number	Diameter R x D	Length of cut L1	Overall Length L	Shank Dia d
2CPB 005 010 S04	0.25R X 0.5	1	50	4	2CPB 060 120 080	3R X 6	12	80	6
2CPB 006 012 S04	0.3R X 0.6	1.2	50	4	2CPB 060 120 110	3R X 6	12	110	6
2CPB 008 020 S04	0.4R X 0.8	2	50	4	2CPB 080 140 080	4R X 8	14	80	8
2CPB 010 025 S04	0.5R X 1	2.5	50	4	2CPB 080 140 110	4R X 8	14	110	8
2CPB 015 040 S04	0.75R X 1.5	4	50	4	2CPB 100 180 080	5R X 10	18	80	10
2CPB 020 050 S04	1R X 2	5	50	4	2CPB 100 180 110	5R X 10	18	110	10
2CPB 025 060 S04	1.25R X 2.5	6	50	4	2CPB 120 220 080	6R X 12	22	80	12
2CPB 030 080 S06	1.5R X 3	8	60	6	2CPB 120 220 110	6R X 12	22	110	12
2CPB 040 080 S06	2R X 4	8	70	6					
2CPB 050 100 S06	2.5R X 5	10	80	6					

# 8~12CPE 8~12 Flutes Finishing End Mills for Composite



- Endmills for CFRP, GFRP, glass/carbon fiber, graphite, nonferrous and non-metallic materials.
- Outstanding performance in finishing of various composite materials.
- Excellent wear resistance by applying high hardness coating layer.
- Minimize built up edge by low friction diamond coating technology.

ø6 - ø12

D Size	D Tolerance
ø6 ~ 12	-0.01 ~ -0.025mm

mm

Order Number	Diameter D	Length of cut L1	Overall Length L	Shank Dia d					
8CPE 060 180 080	6	18	80	6					
10CPE 080 240 080	8	24	80	8					
12CPE 100 300 100	10	30	100	10					
12CPE 120 360 100	12	36	100	12					



01245 260414 - 250910



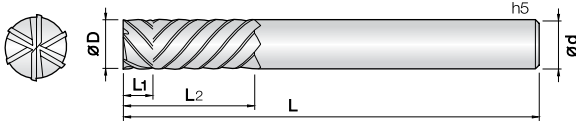
sales@smarttoolsuk.com



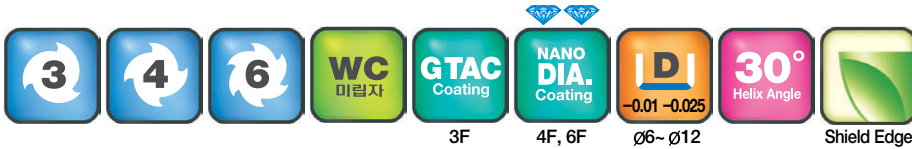
www.smarttoolsuk.com

# 3&4&6CPR

## 3-6 Flutes Compression Router for Composite



- Router for CFRP, GFRP, glass/carbon fiber, graphite, nonferrous and non-metallic materials.
- No up-moving work material at wall cutting.
- No burr in work materials.
- Excellent wear resistance by applying high hardness coating layer.
- Minimize built up edge by low friction diamond coating technology.



D Size	D Tolerance
Ø6 ~ 12	-0.01 ~ -0.025mm

mm

Order Number	Diameter	of cut	of cut	Length	Dia	Order Number	Diameter	Length of cut	Length of cut	Overall Length	Shank Dia
GTAC Coating	D	L1	L2	L	d	DIA Coating	D	L1	L2	L	d
3CPR 060 200 S06	6	5	20	70	6	4CPR 060 200 S06	6	5	20	70	6
3CPR 080 250 S08	8	5	25	80	8	6CPR 080 250 S08	8	5	25	80	8
3CPR 100 270 S10	10	6	27	80	10	6CPR 100 270 S10	10	6	27	80	10
3CPR 120 300 S12	12	6	30	80	12	6CPR 120 300 S12	12	6	30	80	12

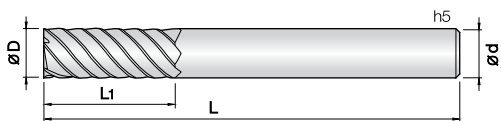
# 6~16CPO

## 6~16 Flutes Router for Composite

A Type



B Type



- Router for CFRP, GFRP, glass/carbon fiber, graphite, nonferrous and non-metallic materials.
- Outstanding performance in roughing of various composite materials.
- A type has many bottom edges and optimized for slotting.
- B type has two bottom edges and excellent performance in vertical, horizontal machining.
- Excellent wear resistance by applying high hardness coating layer.
- Minimize built up edge by low friction diamond coating technology.



D Size	D Tolerance
Ø4 ~ 5	+0 ~ -0.01mm
Ø6 ~ 12	-0.01 ~ -0.025mm

mm

Order Number	Diameter	Length of cut	Overall Length	Type	Shank Dia	Order Number	Diameter	Length of cut	Overall Length	Type	Shank Dia
	D	L1	L		d		D	L1	L		d
New 6CPOA 020 070 S04	2	7	40	A	4	10CPOA 060 200 S06	6	20	70	A	6
New 6CPOB 020 070 S04	2	7	40	B	4	10CPOB 060 200 S06	6	20	70	B	6
New 6CPOA 030 120 S04	3	12	50	A	4	12CPOA 080 250 S08	8	25	80	A	8
New 6CPOB 030 120 S04	3	12	50	B	4	12CPOB 080 250 S08	8	25	80	B	8
8CPOA 040 160 S04	4	16	60	A	4	14CPOA 100 270 S10	10	27	80	A	10
8CPOB 040 160 S04	4	16	60	B	4	14CPOB 100 270 S10	10	27	80	B	10
10CPOA 050 200 S06	5	20	60	A	6	16CPOA 120 300 S12	12	30	80	A	12
10CPOB 050 200 S06	5	20	60	B	6	16CPOB 120 300 S12	12	30	80	B	12



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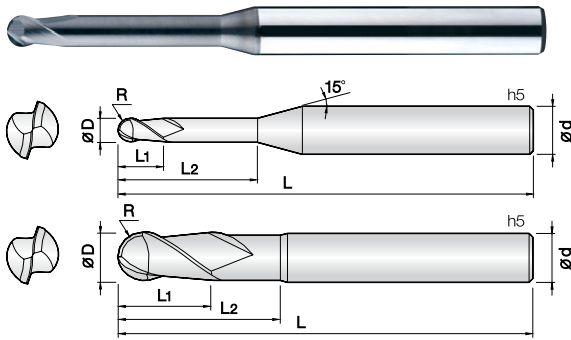
sales@smarttoolsuk.com



www.smarttoolsuk.com







- Endmills for Aluminum, Aluminum alloy, copper, copper alloy, CFRP, glass/carbon fiber, nonferrous and non-metallic materials.
- Tetrabond TAC coating provides excellent work surface finish by high hardness and low friction.
- Minimize fracturing by high TRS fine(0.5 μm) WC grade.
- High precise edge tolerance.



0.05 ~ 2.5R 3 ~ 6R

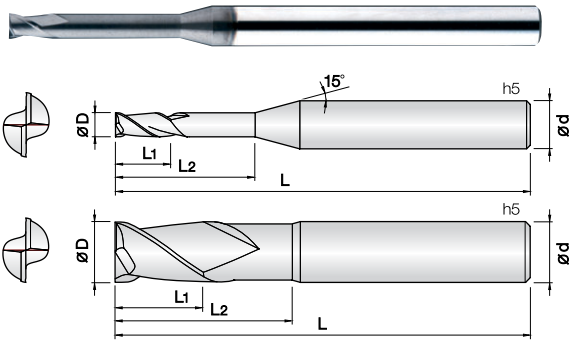
D Size	D Tolerance
∅0.1 ~ 5	+0 ~ -0.01mm
∅6 ~ 12	-0.005 ~ -0.015mm

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
2DRB 001 003 S04	0.05R X 0.1	0.3	-	45	4	2DRB 020 300 S04	1R X 2	3	30	70	4
2DRB 002 005 S04	0.1R X 0.2	0.5	-	45	4	2DRB 030 120 S06	1.5R X 3	4	12	50	6
2DRB 002 010 S04	0.1R X 0.2	0.2	1	45	4	2DRB 030 160 S06	1.5R X 3	4	16	60	6
2DRB 002 015 S04	0.1R X 0.2	0.2	1.5	45	4	2DRB 030 200 S06	1.5R X 3	4	20	60	6
2DRB 002 020 S04	0.1R X 0.2	0.2	2	45	4	2DRB 030 250 S06	1.5R X 3	4	25	65	6
2DRB 003 010 S04	0.15R X 0.3	0.3	1	45	4	2DRB 030 300 S06	1.5R X 3	4	30	70	6
2DRB 003 015 S04	0.15R X 0.3	0.3	1.5	45	4	2DRB 030 400 S06	1.5R X 3	4	40	80	6
2DRB 003 020 S04	0.15R X 0.3	0.3	2	45	4	2DRB 040 120 S06	2R X 4	5	12	50	6
2DRB 004 010 S04	0.2R X 0.4	0.4	1	45	4	2DRB 040 160 S06	2R X 4	5	16	60	6
2DRB 004 020 S04	0.2R X 0.4	0.4	2	45	4	2DRB 040 200 S06	2R X 4	5	20	60	6
2DRB 004 030 S04	0.2R X 0.4	0.4	3	45	4	2DRB 040 250 S06	2R X 4	5	25	65	6
2DRB 004 040 S04	0.2R X 0.4	0.4	4	45	4	2DRB 040 300 S06	2R X 4	5	30	70	6
2DRB 004 050 S04	0.2R X 0.4	0.4	5	45	4	2DRB 050 200 S06	2.5R X 5	6	20	60	6
2DRB 005 020 S04	0.25R X 0.5	0.5	2	45	4	2DRB 050 400 S06	2.5R X 5	6	40	80	6
2DRB 005 040 S04	0.25R X 0.5	0.5	4	45	4	2DRB 060 200 S06	3R X 6	8	20	60	6
2DRB 005 060 S04	0.25R X 0.5	0.5	6	45	4	2DRB 060 300 S06	3R X 6	8	30	90	6
2DRB 005 080 S04	0.25R X 0.5	0.5	8	45	4	2DRB 080 200 S08	4R X 8	10	20	70	8
2DRB 005 100 S04	0.25R X 0.5	0.5	10	45	4	2DRB 100 250 S10	5R X 10	12	25	80	10
2DRB 006 020 S04	0.3R X 0.6	0.6	2	45	4	2DRB 120 250 S12	6R X 12	14	25	80	12
2DRB 006 040 S04	0.3R X 0.6	0.6	4	45	4						
2DRB 006 060 S04	0.3R X 0.6	0.6	6	45	4						
2DRB 006 080 S04	0.3R X 0.6	0.6	8	45	4						
2DRB 006 100 S04	0.3R X 0.6	0.6	10	45	4						
2DRB 008 020 S04	0.4R X 0.8	0.8	2	45	4						
2DRB 008 040 S04	0.4R X 0.8	0.8	4	45	4						
2DRB 008 060 S04	0.4R X 0.8	0.8	6	45	4						
2DRB 008 080 S04	0.4R X 0.8	0.8	8	45	4						
2DRB 008 100 S04	0.4R X 0.8	0.8	10	45	4						
2DRB 008 120 S04	0.4R X 0.8	0.8	12	45	4						
2DRB 010 040 S04	0.5R X 1	1	4	45	4						
2DRB 010 060 S04	0.5R X 1	1	6	45	4						
2DRB 010 080 S04	0.5R X 1	1	8	45	4						
2DRB 010 100 S04	0.5R X 1	1	10	45	4						
2DRB 010 120 S04	0.5R X 1	1	12	45	4						
2DRB 010 160 S04	0.5R X 1	1	16	50	4						
2DRB 015 060 S04	0.75R X 1.5	1.5	6	45	4						
2DRB 015 080 S04	0.75R X 1.5	1.5	8	45	4						
2DRB 015 100 S04	0.75R X 1.5	1.5	10	45	4						
2DRB 015 120 S04	0.75R X 1.5	1.5	12	45	4						
2DRB 015 160 S04	0.75R X 1.5	1.5	16	50	4						
2DRB 015 200 S04	0.75R X 1.5	1.5	20	50	4						
2DRB 020 060 S04	1R X 2	3	6	45	4						
2DRB 020 080 S04	1R X 2	3	8	45	4						
2DRB 020 100 S04	1R X 2	3	10	45	4						
2DRB 020 120 S04	1R X 2	3	12	45	4						
2DRB 020 160 S04	1R X 2	3	16	50	4						
2DRB 020 200 S04	1R X 2	3	20	50	4						
2DRB 020 250 S04	1R X 2	3	25	60	4						







- Endmills for Aluminum, Aluminum alloy, copper, copper alloy, CFRP, glass/carbon fiber, nonferrous and non-metallic materials.
- Tetrabond TAC coating provides excellent work surface finish by high hardness and low friction.
- Reinforced edge design for preventing edge chipping.
- High precise edge tolerance.



D Size	D Tolerance
ø0.1	+0 ~ -0.005mm
ø0.2 ~ 5	+0 ~ -0.01mm
ø6 ~ 12	-0.01 ~ -0.025mm

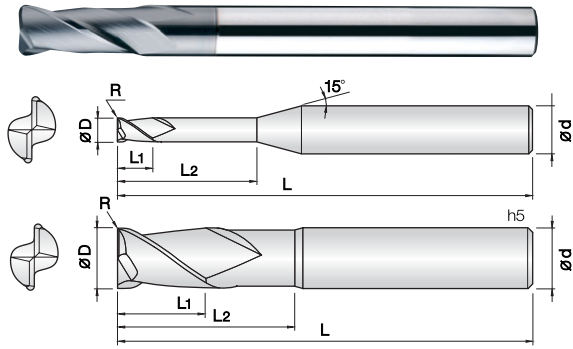
mm

Order Number	Diameter D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d	Order Number	Diameter D	Length of cut L1	Effective Length L2	Overall Length L	Shank Dia d
2DRE 001 003 S04	0.1	0.3	-	45	4	2DRE 030 120 S06	3	4.5	12	50	6
2DRE 001 005 S04	0.1	0.5	-	45	4	2DRE 030 160 S06	3	4.5	16	60	6
2DRE 002 005 S04	0.2	0.5	-	45	4	2DRE 030 200 S06	3	4.5	20	60	6
2DRE 002 010 S04	0.2	0.3	1	45	4	2DRE 030 250 S06	3	4.5	25	65	6
2DRE 002 015 S04	0.2	0.3	1.5	45	4	2DRE 030 300 S06	3	4.5	30	70	6
2DRE 002 020 S04	0.2	0.3	2	45	4	2DRE 030 400 S06	3	4.5	40	80	6
2DRE 003 010 S04	0.3	0.5	1	45	4	2DRE 040 120 S06	4	6	12	50	6
2DRE 003 015 S04	0.3	0.5	1.5	45	4	2DRE 040 160 S06	4	6	16	60	6
2DRE 003 020 S04	0.3	0.5	2	45	4	2DRE 040 200 S06	4	6	20	60	6
2DRE 004 010 S04	0.4	0.6	1	45	4	2DRE 040 250 S06	4	6	25	65	6
2DRE 004 020 S04	0.4	0.6	2	45	4	2DRE 040 300 S06	4	6	30	70	6
2DRE 004 030 S04	0.4	0.6	3	45	4	2DRE 040 400 S06	4	6	40	80	6
2DRE 004 040 S04	0.4	0.6	4	45	4	2DRE 050 200 S06	5	6	20	60	6
2DRE 004 050 S04	0.4	0.6	5	45	4	2DRE 050 400 S06	5	6	40	80	6
2DRE 005 020 S04	0.5	0.7	2	45	4	2DRE 060 200 S06	6	8	20	60	6
2DRE 005 040 S04	0.5	0.7	4	45	4	2DRE 060 300 S06	6	8	30	90	6
2DRE 005 060 S04	0.5	0.7	6	45	4	2DRE 080 200 S08	8	12	20	70	8
2DRE 005 080 S04	0.5	0.7	8	45	4	2DRE 100 250 S10	10	15	25	80	10
2DRE 005 100 S04	0.5	0.7	10	45	4	2DRE 120 300 S12	12	18	30	80	12
2DRE 006 020 S04	0.6	0.9	2	45	4						
2DRE 006 040 S04	0.6	0.9	4	45	4						
2DRE 006 060 S04	0.6	0.9	6	45	4						
2DRE 006 080 S04	0.6	0.9	8	45	4						
2DRE 006 100 S04	0.6	0.9	10	45	4						
2DRE 008 020 S04	0.8	1.2	2	45	4						
2DRE 008 040 S04	0.8	1.2	4	45	4						
2DRE 008 060 S04	0.8	1.2	6	45	4						
2DRE 008 080 S04	0.8	1.2	8	45	4						
2DRE 008 100 S04	0.8	1.2	10	45	4						
2DRE 008 120 S04	0.8	1.2	12	45	4						
2DRE 010 040 S04	1	1.5	4	45	4						
2DRE 010 060 S04	1	1.5	6	45	4						
2DRE 010 080 S04	1	1.5	8	45	4						
2DRE 010 100 S04	1	1.5	10	45	4						
2DRE 010 120 S04	1	1.5	12	45	4						
2DRE 010 160 S04	1	1.5	16	50	4						
2DRE 015 060 S04	1.5	2.3	6	45	4						
2DRE 015 080 S04	1.5	2.3	8	45	4						
2DRE 015 100 S04	1.5	2.3	10	45	4						
2DRE 015 120 S04	1.5	2.3	12	45	4						
2DRE 015 160 S04	1.5	2.3	16	50	4						
2DRE 015 200 S04	1.5	2.3	20	50	4						
2DRE 020 060 S04	2	3	6	45	4						
2DRE 020 080 S04	2	3	8	45	4						
2DRE 020 100 S04	2	3	10	45	4						
2DRE 020 120 S04	2	3	12	45	4						
2DRE 020 160 S04	2	3	16	50	4						
2DRE 020 200 S04	2	3	20	50	4						









- Endmills for Aluminum, Aluminum alloy, copper, copper alloy, CFRP, glass/carbon fiber, nonferrous and non-metallic materials.
- Tetrabond TAC coating provides excellent work surface finish by high hardness and low friction.
- Reinforced edge design for preventing edge chipping.
- High precise edge tolerance.

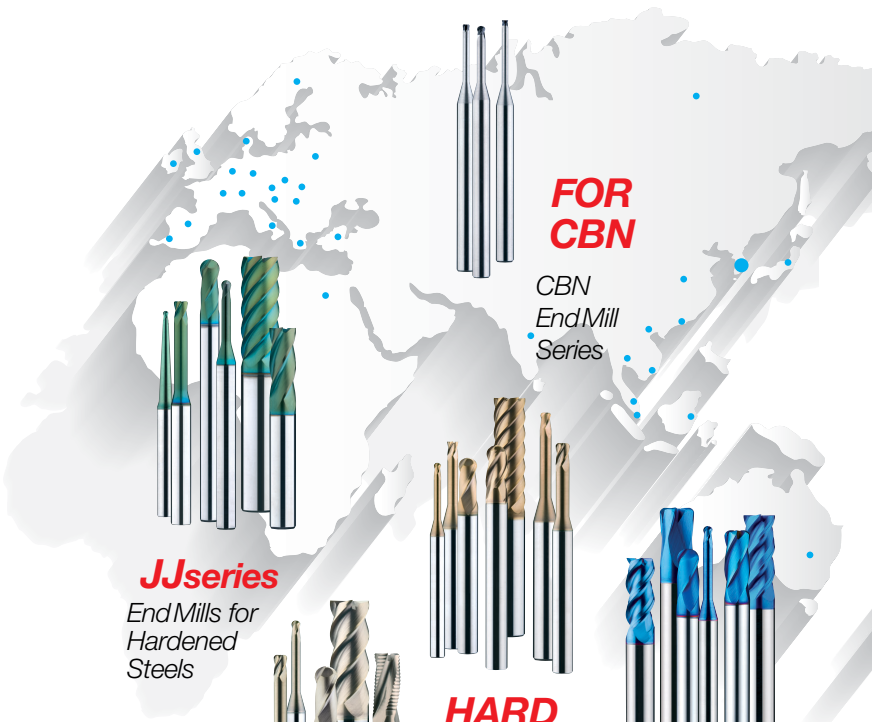


D Size	D Tolerance
Ø1 ~ 4	+0 ~ -0.01mm
Ø6 ~ 12	-0.005 ~ -0.015mm

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
2DLC 010 001 040	1 X R0.1	1.5	4	45	4	2DLC 040 005 250	4 X R0.5	6	25	65	6
2DLC 010 001 060	1 X R0.1	1.5	6	45	4	2DLC 040 005 300	4 X R0.5	6	30	70	6
2DLC 010 001 080	1 X R0.1	1.5	8	45	4	2DLC 040 010 120	4 X R1	6	12	50	6
2DLC 010 001 100	1 X R0.1	1.5	10	45	4	2DLC 040 010 160	4 X R1	6	16	60	6
2DLC 010 002 040	1 X R0.2	1.5	4	45	4	2DLC 040 010 200	4 X R1	6	20	60	6
2DLC 010 002 060	1 X R0.2	1.5	6	45	4	2DLC 040 010 250	4 X R1	6	25	65	6
2DLC 010 002 080	1 X R0.2	1.5	8	45	4	2DLC 040 010 300	4 X R1	6	30	70	6
2DLC 010 002 100	1 X R0.2	1.5	10	45	4	2DLC 060 003 200	6 X R0.3	9	20	60	6
2DLC 015 001 060	1.5 X R0.1	2.3	6	45	4	2DLC 060 005 200	6 X R0.5	9	20	60	6
2DLC 015 001 080	1.5 X R0.1	2.3	8	45	4	2DLC 060 010 200	6 X R1	9	20	60	6
2DLC 015 001 100	1.5 X R0.1	2.3	10	45	4	2DLC 080 003 250	8 X R0.3	12	25	65	8
2DLC 015 001 120	1.5 X R0.1	2.3	12	50	4	2DLC 080 005 250	8 X R0.5	12	25	65	8
2DLC 015 002 060	1.5 X R0.2	2.3	6	45	4	2DLC 080 010 250	8 X R1	12	25	65	8
2DLC 015 002 080	1.5 X R0.2	2.3	8	45	4	2DLC 100 005 300	10 X R0.5	15	30	70	10
2DLC 015 002 100	1.5 X R0.2	2.3	10	45	4	2DLC 100 010 300	10 X R1	15	30	70	10
2DLC 015 002 120	1.5 X R0.2	2.3	12	50	4	2DLC 120 005 320	12 X R0.5	18	32	80	12
2DLC 020 002 080	2 X R0.2	3	8	45	4	2DLC 120 010 320	12 X R1	18	32	80	12
2DLC 020 002 100	2 X R0.2	3	10	45	4						
2DLC 020 002 120	2 X R0.2	3	12	50	4						
2DLC 020 002 160	2 X R0.2	3	16	50	4						
2DLC 020 005 080	2 X R0.5	3	8	45	4						
2DLC 020 005 100	2 X R0.5	3	10	45	4						
2DLC 020 005 120	2 X R0.5	3	12	50	4						
2DLC 020 005 160	2 X R0.5	3	16	50	4						
2DLC 030 002 100	3 X R0.2	4.5	10	50	6						
2DLC 030 002 120	3 X R0.2	4.5	12	50	6						
2DLC 030 002 160	3 X R0.2	4.5	16	60	6						
2DLC 030 002 200	3 X R0.2	4.5	20	60	6						
2DLC 030 002 250	3 X R0.2	4.5	25	65	6						
2DLC 030 002 300	3 X R0.2	4.5	30	70	6						
2DLC 030 003 100	3 X R0.3	4.5	10	50	6						
2DLC 030 003 120	3 X R0.3	4.5	12	50	6						
2DLC 030 003 160	3 X R0.3	4.5	16	60	6						
2DLC 030 003 200	3 X R0.3	4.5	20	60	6						
2DLC 030 003 250	3 X R0.3	4.5	25	65	6						
2DLC 030 003 300	3 X R0.3	4.5	30	70	6						
2DLC 030 005 100	3 X R0.5	4.5	10	50	6						
2DLC 030 005 120	3 X R0.5	4.5	12	50	6						
2DLC 030 005 160	3 X R0.5	4.5	16	60	6						
2DLC 030 005 200	3 X R0.5	4.5	20	60	6						
2DLC 030 005 250	3 X R0.5	4.5	25	65	6						
2DLC 030 005 300	3 X R0.5	4.5	30	70	6						
2DLC 040 002 120	4 X R0.2	6	12	50	6						
2DLC 040 002 160	4 X R0.2	6	16	60	6						
2DLC 040 002 200	4 X R0.2	6	20	60	6						
2DLC 040 005 120	4 X R0.5	6	12	50	6						
2DLC 040 005 160	4 X R0.5	6	16	60	6						
2DLC 040 005 200	4 X R0.5	6	20	60	6						





**FOR  
CBN**

CBN  
EndMill  
Series



**JJseries**

End Mills for  
Hardened  
Steels



**HARD  
series**

High Speed  
End Mill Series



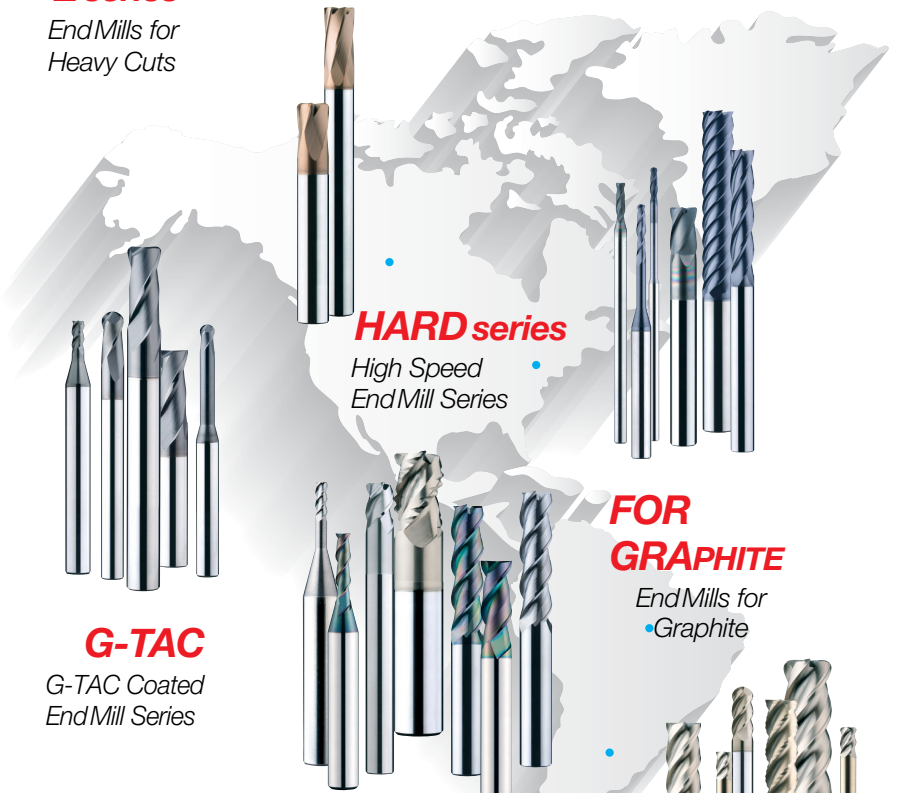
**Eseries**

End Mills for  
Heavy Cuts



**Gseries**

End Mills for  
General  
purpose



**HARD series**

High Speed  
End Mill Series

**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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