

DiC TOOLS

A Brand by Dedicated Impex Co.



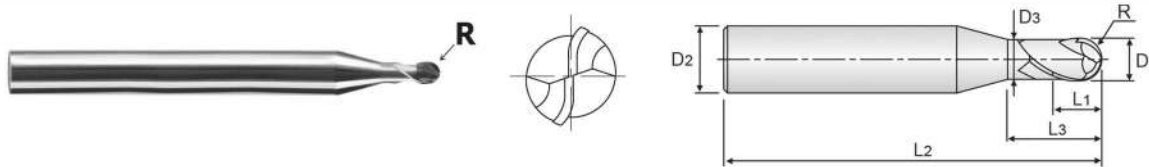
PCD & CBN TOOLS

Product name	Page No.
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2 Flute Ball Nose

- ▶ Improve repeatability in performance.
- ▶ Special designed geometry improves tool rigidity at High Speed Cutting.
- ▶ Tighter Radius Tolerance $\pm 0.005\text{mm}$ higher accuracy and longer tool life.



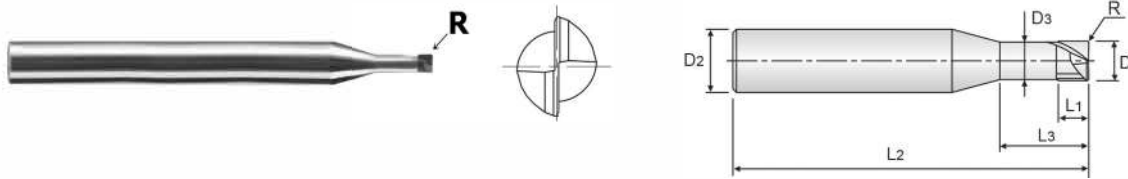
Unit : mm

Radius of Ball Nose R (± 0.005)	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Neck Diameter D3
RO.2	0.4	4	0.3	1.2	50	0.37
RO.25	0.5	4	0.4	1.5	50	0.46
RO.3	0.6	4	0.5	1.5	50	0.56
RO.4	0.8	4	0.6	2	50	0.76
RO.5	1.0	4	0.6	2.5	50	0.95
RO.5	1.0	4	0.6	4	50	0.95
RO.5	1.0	4	0.6	6	50	0.95
RO.6	1.2	4	0.8	3	50	1.15
RO.75	1.5	4	0.95	3	50	1.45
RO.75	1.5	4	0.95	4	50	1.45
RO.75	1.5	4	0.95	6	50	1.45
R1.0	2.0	4	1.2	5	50	1.95
R1.0	2.0	4	1.2	6	50	1.95
R1.5	3.0	4	1.8	6	50	2.85

Radius Tolerance(mm)	Shank Dia. Tolerance
± 0.005	h5

2 Flute Corner Radius

- ▶ Improve repeatability in performance.
- ▶ Special designed geometry improves tool rigidity at High Speed Cutting.
- ▶ Tighter Radius Tolerance $\pm 0.005\text{mm}$ higher accuracy and longer tool life.



P.36

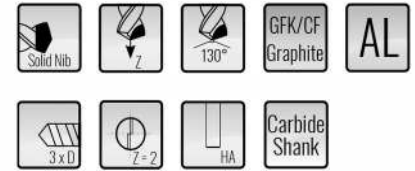
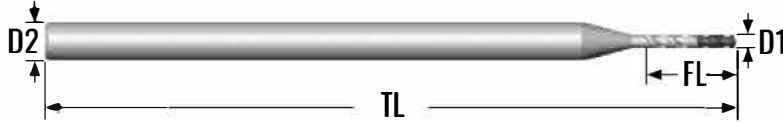
Unit : mm

Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
R (± 0.005)	D1	D2	L1	L3	L2	D3
RO.05	0.5	4	0.3	2	50	0.46
RO.05	0.5	4	0.3	3	50	0.46
RO.05	1.0	4	0.7	3	50	0.95
RO.05	1.0	4	0.7	5	50	0.95
RO.1	1.0	4	0.7	3	50	0.95
RO.1	1.0	4	0.7	5	50	0.95
RO.1	1.5	4	1.0	5	50	1.45
RO.1	1.5	4	1.0	8	50	1.45
RO.2	1.5	4	1.0	5	50	1.45
RO.2	1.5	4	1.0	8	50	1.45
RO.1	2.0	4	1.2	6	50	1.95
RO.1	2.0	4	1.2	10	50	1.95
RO.2	2.0	4	1.2	6	50	1.95
RO.2	2.0	4	1.2	10	50	1.95

Corner Radius Tolerance(mm)	Shank Dia. Tolerance
± 0.005	h5

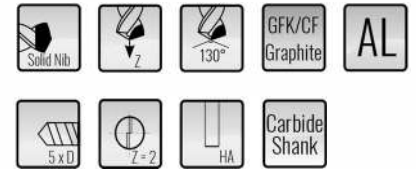
PCD Drills

PCD Solid Nib Drills



D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
1.0	3	9	40	130°
1.1	3	9	40	130°
1.2	3	9	40	130°
1.3	3	9	40	130°
1.4	3	9	40	130°

D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
1.5	3	9	40	130°
1.6	3	9	40	130°
1.7	3	9	40	130°
1.8	3	9	40	130°
1.9	3	9	40	130°

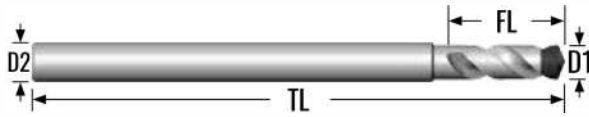


D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
1.0	3	15	55	130°
1.1	3	15	55	130°
1.2	3	15	55	130°
1.3	3	15	55	130°
1.4	3	15	55	130°

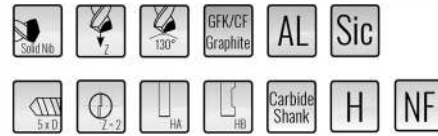
D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
1.5	3	15	55	130°
1.6	3	15	55	130°
1.7	3	15	55	130°
1.8	3	15	55	130°
1.9	3	15	55	130°

Other sizes can also be made on request

PCD Solid Nib Drills



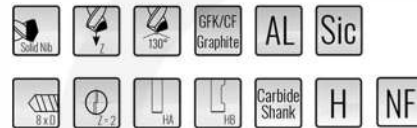
D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
2	4	20	60	130°
2.1	4	20	60	130°
2.2	4	20	60	130°
2.3	4	20	60	130°
2.4	4	20	60	130°
2.5	4	20	60	130°
2.6	4	20	60	130°
2.7	4	20	60	130°
2.8	4	20	60	130°
2.9	4	20	60	130°



D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
3.0	4	20	60	130°
3.1	4	20	60	130°
3.2	4	20	60	130°
3.3	4	20	60	130°
3.4	4	20	60	130°
3.5	4	20	60	130°
3.6	4	20	60	130°
3.7	4	20	60	130°
3.8	4	20	60	130°
3.9	4	20	60	130°



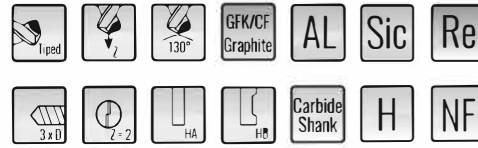
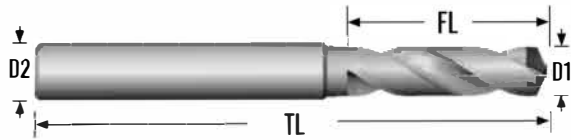
D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
2	4	35	75	130°
2.1	4	35	75	130°
2.2	4	35	75	130°
2.3	4	35	75	130°
2.4	4	35	75	130°
2.5	4	35	75	130°
2.6	4	35	75	130°
2.7	4	35	75	130°
2.8	4	35	75	130°
2.9	4	35	75	130°



D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
3.0	4	35	75	130°
3.1	4	35	75	130°
3.2	4	35	75	130°
3.3	4	35	75	130°
3.4	4	35	75	130°
3.5	4	35	75	130°
3.6	4	35	75	130°
3.7	4	35	75	130°
3.8	4	35	75	130°
3.9	4	35	75	130°

PCD Drills

PCD Tipped Drills

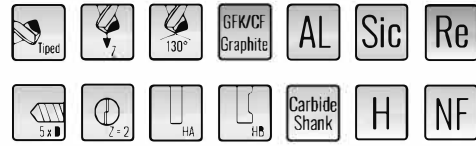
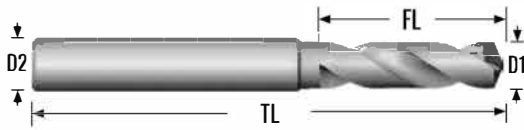


D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
3.5	4	15	55	130°
3.6	4	15	55	130°
3.7	4	15	55	130°
3.8	4	15	55	130°
3.9	4	15	55	130°
4.0	4	15	55	130°
4.1	6	20	60	130°
4.2	6	20	60	130°
4.3	6	20	60	130°
4.4	6	20	60	130°
4.5	6	20	60	130°
4.6	6	20	60	130°
4.7	6	20	60	130°
4.8	6	20	60	130°
4.9	6	20	60	130°
5.0	6	20	60	130°
5.1	6	20	60	130°
5.2	6	20	60	130°
5.3	6	20	60	130°
5.4	6	20	60	130°
5.5	6	20	60	130°
5.6	6	20	60	130°
5.7	6	20	60	130°
5.8	6	20	60	130°
5.9	6	20	60	130°
6.0	6	20	60	130°
6.1	8	25	65	130°
6.2	8	25	65	130°
6.3	8	25	65	130°
6.4	8	25	65	130°
6.5	8	25	65	130°
6.6	8	25	65	130°

D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
6.7	8	25	65	130°
6.8	8	25	65	130°
6.9	8	25	65	130°
7.0	8	25	65	130°
7.1	8	25	65	130°
7.2	8	25	65	130°
7.3	8	25	65	130°
7.4	8	25	65	130°
7.5	8	25	65	130°
7.6	8	25	65	130°
7.7	8	25	65	130°
7.8	8	25	65	130°
7.9	8	25	65	130°
8.0	8	25	65	130°
8.2	10	35	75	130°
8.6	10	35	75	130°
8.8	10	35	75	130°
9.0	10	35	75	130°
9.2	10	35	75	130°
9.6	10	35	75	130°
9.8	10	35	75	130°
10.0	10	35	75	130°
10.2	12	40	80	130°
10.4	12	40	80	130°
10.6	12	40	80	130°
10.8	12	40	80	130°
11.0	12	40	80	130°
11.2	12	40	80	130°
11.4	12	40	80	130°
11.6	12	40	80	130°
11.8	12	40	80	130°
12.0	12	40	80	130°

PCD Drills

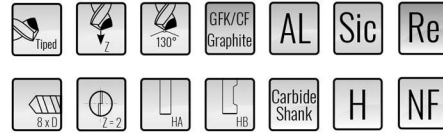
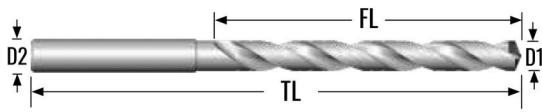
PCD Tipped Drills



D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
3.5	4	20	60	130°
3.6	4	20	60	130°
3.7	4	20	60	130°
3.8	4	20	60	130°
3.9	4	20	60	130°
4.0	4	20	60	130°
4.1	6	35	75	130°
4.2	6	35	75	130°
4.3	6	35	75	130°
4.4	6	35	75	130°
4.5	6	35	75	130°
4.6	6	35	75	130°
4.7	6	35	75	130°
4.8	6	35	75	130°
4.9	6	35	75	130°
5.0	6	35	75	130°
5.1	6	35	75	130°
5.2	6	35	75	130°
5.3	6	35	75	130°
5.4	6	35	75	130°
5.5	6	35	75	130°
5.6	6	35	75	130°
5.7	6	35	75	130°
5.8	6	35	75	130°
5.9	6	35	75	130°
6.0	6	35	75	130°
6.1	8	40	80	130°
6.2	8	40	80	130°
6.3	8	40	80	130°
6.4	8	40	80	130°
6.5	8	40	80	130°
6.6	8	40	80	130°

D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
6.7	8	40	80	130°
6.8	8	40	80	130°
6.9	8	40	80	130°
7.0	8	40	80	130°
7.1	8	40	80	130°
7.2	8	40	80	130°
7.3	8	40	80	130°
7.4	8	40	80	130°
7.5	8	40	80	130°
7.6	8	40	80	130°
7.7	8	40	80	130°
7.8	8	40	80	130°
7.9	8	40	80	130°
8.0	8	40	80	130°
8.2	10	60	100	130°
8.6	10	60	100	130°
8.8	10	60	100	130°
9.0	10	60	100	130°
9.2	10	60	100	130°
9.6	10	60	100	130°
9.8	10	60	100	130°
10.0	10	60	100	130°
10.2	12	60	100	130°
10.4	12	60	100	130°
10.6	12	60	100	130°
10.8	12	60	100	130°
11.0	12	60	100	130°
11.2	12	60	100	130°
11.4	12	60	100	130°
11.6	12	60	100	130°
11.8	12	60	100	130°
12.0	12	60	100	130°

PCD Tipped Drills

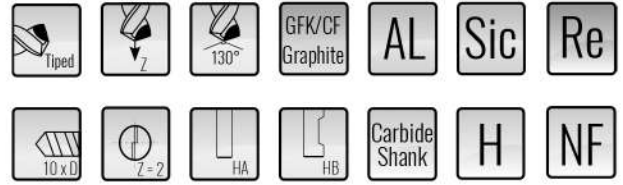
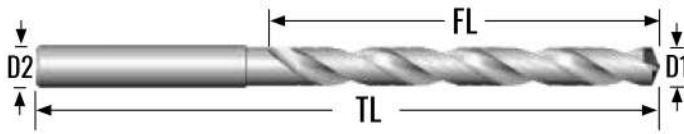


D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
3.5	4	35	75	130°
3.6	4	35	75	130°
3.7	4	35	75	130°
3.8	4	35	75	130°
3.9	4	35	75	130°
4.0	4	35	75	130°
4.1	6	60	100	130°
4.2	6	60	100	130°
4.3	6	60	100	130°
4.4	6	60	100	130°
4.5	6	60	100	130°
4.6	6	60	100	130°
4.7	6	60	100	130°
4.8	6	60	100	130°
4.9	6	60	100	130°
5.0	6	60	100	130°
5.1	6	60	100	130°
5.2	6	60	100	130°
5.3	6	60	100	130°
5.4	6	60	100	130°
5.5	6	60	100	130°
5.6	6	60	100	130°
5.7	6	60	100	130°
5.8	6	60	100	130°
5.9	6	60	100	130°
6.0	6	60	100	130°
6.1	8	70	110	130°
6.2	8	70	110	130°
6.3	8	70	110	130°
6.4	8	70	110	130°
6.5	8	70	110	130°
6.6	8	70	110	130°

D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
6.7	8	70	110	130°
6.8	8	70	110	130°
6.9	8	70	110	130°
7.0	8	70	110	130°
7.1	8	70	110	130°
7.2	8	70	110	130°
7.3	8	70	110	130°
7.4	8	70	110	130°
7.5	8	70	110	130°
7.6	8	70	110	130°
7.7	8	70	110	130°
7.8	8	70	110	130°
7.9	8	70	110	130°
8.0	8	70	110	130°
8.2	10	90	130	130°
8.6	10	90	130	130°
8.8	10	90	130	130°
9.0	10	90	130	130°
9.2	10	90	130	130°
9.6	10	90	130	130°
9.8	10	90	130	130°
10.0	10	90	130	130°
10.2	12	120	160	130°
10.4	12	120	160	130°
10.6	12	120	160	130°
10.8	12	120	160	130°
11.0	12	120	160	130°
11.2	12	120	160	130°
11.4	12	120	160	130°
11.6	12	120	160	130°
11.8	12	120	160	130°
12.0	12	120	160	130°

PCD Drills

PCD Tipped Drills

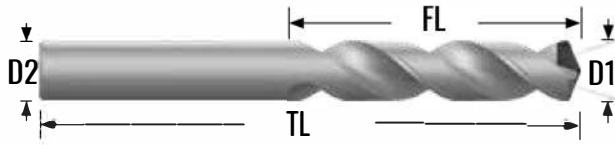


D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
6.0	8	90	130	130°
6.1	8	90	130	130°
6.2	8	90	130	130°
6.3	8	90	130	130°
6.4	8	90	130	130°
6.5	8	90	130	130°
6.6	8	90	130	130°
6.7	8	90	130	130°
6.8	8	90	130	130°
6.9	8	90	130	130°
7.0	8	90	130	130°
7.1	8	90	130	130°
7.2	8	90	130	130°
7.3	8	90	130	130°
7.4	8	90	130	130°
7.5	8	90	130	130°
7.6	8	90	130	130°
7.7	8	90	130	130°
7.8	8	90	130	130°
7.9	8	90	130	130°

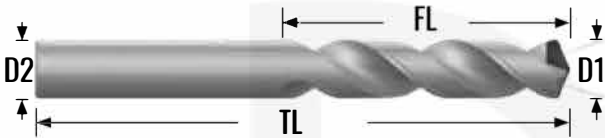
D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
8.0	8	90	130	130°
8.2	10	120	160	130°
8.6	10	120	160	130°
8.8	10	120	160	130°
9.0	10	120	160	130°
9.2	10	120	160	130°
9.6	10	120	160	130°
9.8	10	120	160	130°
10.0	10	120	160	130°
10.2	12	120	160	130°
10.4	12	120	160	130°
10.6	12	120	160	130°
10.8	12	120	160	130°
11.0	12	120	160	130°
11.2	12	120	160	130°
11.4	12	120	160	130°
11.6	12	120	160	130°
11.8	12	120	160	130°
12.0	12	120	160	130°

PCD Drills

PCD Tipped Drills with Internal Coolant



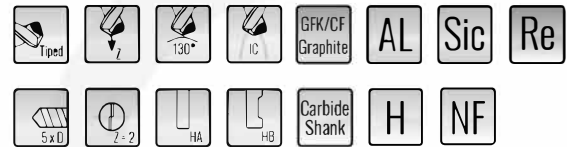
D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
8.0	8	25	65	130°
8.2	10	35	75	130°
8.6	10	35	75	130°
8.8	10	35	75	130°
9.0	10	35	75	130°
9.2	10	35	75	130°
9.6	10	35	75	130°
9.8	10	35	75	130°
10.0	10	35	75	130°
10.2	12	40	80	130°



D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
8.0	8	40	80	130°
8.2	10	60	100	130°
8.6	10	60	100	130°
8.8	10	60	100	130°
9.0	10	60	100	130°
9.2	10	60	100	130°
9.6	10	60	100	130°
9.8	10	60	100	130°
10.0	10	60	100	130°
10.2	12	60	100	130°



D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
10.4	12	40	80	130°
10.6	12	40	80	130°
10.8	12	40	80	130°
11.0	12	40	80	130°
11.2	12	40	80	130°
11.4	12	40	80	130°
11.6	12	40	80	130°
11.8	12	40	80	130°
12.0	12	40	80	130°



D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
10.4	12	60	100	130°
10.6	12	60	100	130°
10.8	12	60	100	130°
11.0	12	60	100	130°
11.2	12	60	100	130°
11.4	12	60	100	130°
11.6	12	60	100	130°
11.8	12	60	100	130°
12.0	12	60	100	130°

PCD Drills

PCD Tipped Drills with Internal Coolant



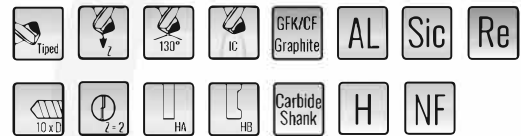
D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
8.0	8	70	110	130°
8.2	10	90	130	130°
8.6	10	90	130	130°
8.8	10	90	130	130°
9.0	10	90	130	130°
9.2	10	90	130	130°
9.6	10	90	130	130°
9.8	10	90	130	130°
10.0	10	90	130	130°
10.2	12	120	160	130°



D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
10.4	12	120	160	130°
10.6	12	120	160	130°
10.8	12	120	160	130°
11.0	12	120	160	130°
11.2	12	120	160	130°
11.4	12	120	160	130°
11.6	12	120	160	130°
11.8	12	120	160	130°
12.0	12	120	160	130°



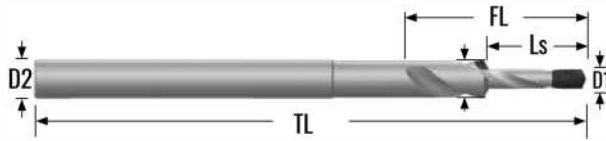
D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
8.0	8	90	130	130°
8.2	10	120	160	130°
8.6	10	120	160	130°
8.8	10	120	160	130°
9.0	10	120	160	130°
9.2	10	120	160	130°
9.6	10	120	160	130°
9.8	10	120	160	130°
10.0	10	120	160	130°
10.2	12	120	160	130°



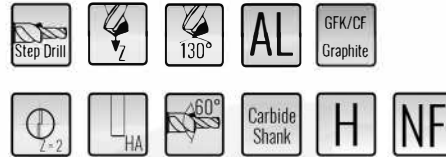
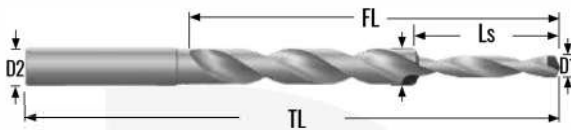
D1 [mm]	D2 [mm]	FL [mm]	TL [mm]	a ANGLE
10.4	12	120	160	130°
10.6	12	120	160	130°
10.8	12	120	160	130°
11.0	12	120	160	130°
11.2	12	120	160	130°
11.4	12	120	160	130°
11.6	12	120	160	130°
11.8	12	120	160	130°
12.0	12	120	160	130°

PCD Drills

PCD Step Drills



D1 [mm]	D2 [mm]	LS [mm]	FL [mm]	a ANGLE	a2 Chamfer	TL [mm]
1.5	3	5	30	130°	60°	60
2	3	5	30	130°	60°	60
3	6	6	40	130°	60°	80
3.5	6	6	40	130°	60°	80



D1 [mm]	D2 [mm]	LS [mm]	FL [mm]	a ANGLE	a2 Chamfer	TL [mm]
6	8	70	90	130°	60°	130
8	10	90	120	130°	60°	160
9	12	110	120	130°	60°	160

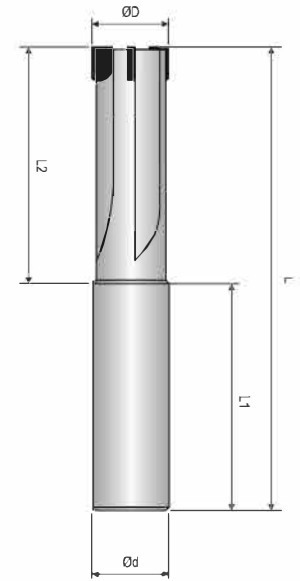


D1 [mm]	D2 [mm]	LS [mm]	FL [mm]	a ANGLE	a2 Chamfer	TL [mm]
6	8	70	90	130°	60°	130
8	10	90	120	130°	60°	160
9	12	110	120	130°	60°	160

PCD & CBN Reamers

4 FLUTE PARALLEL SHANK

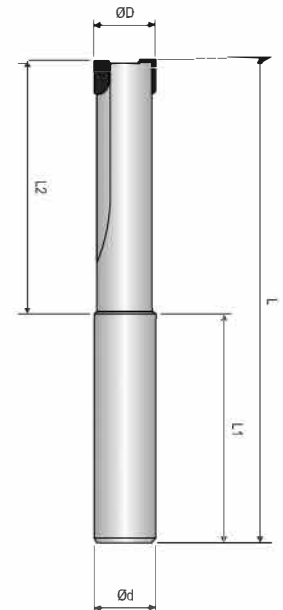
D	d	L	L1	L2
Cutting Diameter	Shank Diameter	Overall Length	Shank Length	Working Length
10	10	80	50	30
12	12	80	50	30
14	16	80	50	30
16	16	80	50	30
18	20	80	50	30
20	20	100	60	40
22	25	100	60	40
25	25	100	60	40
28	25	100	60	40
32	25	100	60	40



*All Dimensions are in mm.

2 FLUTE PARALLEL SHANK

D	d	L	L1	L2
Cutting Diameter	Shank Diameter	Overall Length	Shank Length	Working Length
06	08	80	50	30
07	10	80	50	30
08	10	80	50	30
10	10	80	50	30
12	12	100	60	40
14	16	100	60	40
16	16	100	60	40
18	20	100	60	40
20	20	100	60	40



*All Dimensions are in mm.

Other sizes can also be made on request

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