

# **DiC TOOLS**

*A Brand by Dedicated Impex Co.*



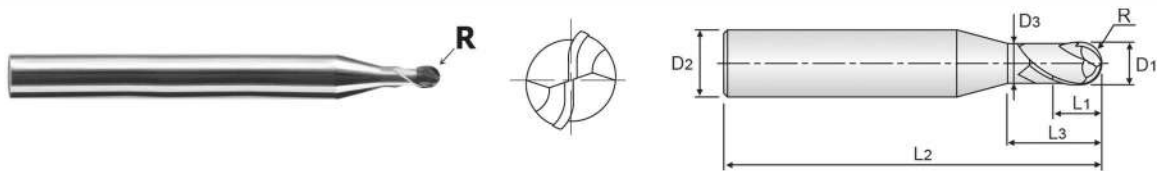
**PCD & CBN TOOLS**

| Product name           | Page No. |
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| CBN End Mills .....    | 03-04    |
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| PCD & CBN Reamers..... | 14       |



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.



CBN

2

$\pm 0.005$

PLAIN

P.36

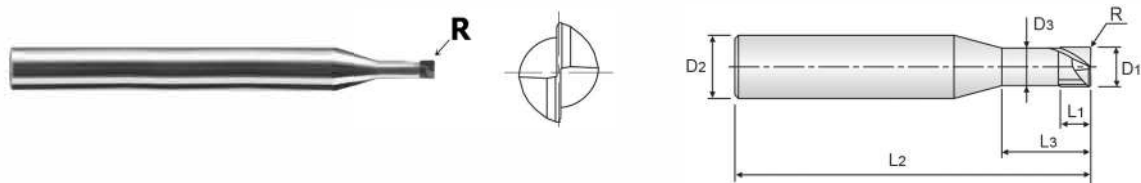
Unit : mm

| Radius of Ball Nose<br>R ( $\pm 0.005$ ) | Mill Diameter<br>D1 | Shank Diameter<br>D2 | Length of Cut<br>L1 | Length Below Shank<br>L3 | Overall Length<br>L2 | Neck Diameter<br>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 |
| $\pm 0.005$          | 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

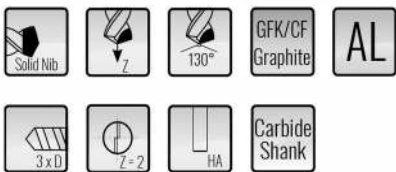
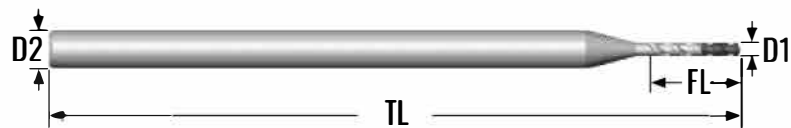
Unit : mm

| Corner Radius     | Mill Diameter | Shank Diameter | Length of Cut | Length Below Shank | Overall Length | Neck Diameter |
|-------------------|---------------|----------------|---------------|--------------------|----------------|---------------|
| R ( $\pm 0.005$ ) | 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 |
| $\pm 0.005$                 | h5                   |

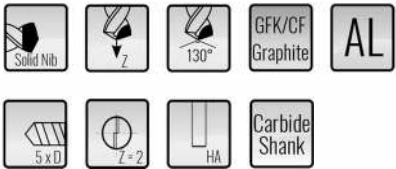
# PCD Drills

## PCD Solid Nib Drills



| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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°       |



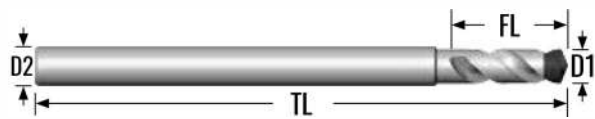
| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>ANGLE |
|------------|------------|------------|------------|------------|
| 1.0        | 3          | 15         | 55         | 130°       |
| 1.1        | 3          | 15         | 55         | 130°       |
| 1.2        | 3          | 15         | 55         | 130°       |
| 1.3        | 3          | 15         | 55         | 130°       |
| 1.4        | 3          | 15         | 55         | 130°       |

| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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



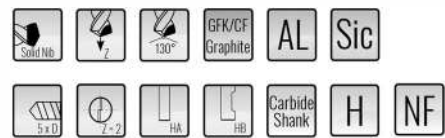
PCD Solid Nib Drills



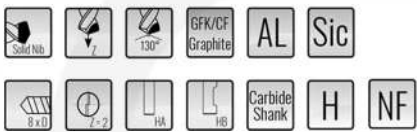
| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>ANGLE |
|------------|------------|------------|------------|------------|
| 2          | 4          | 20         | 60         | 130°       |
| 2.1        | 4          | 20         | 60         | 130°       |
| 2.2        | 4          | 20         | 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<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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°       |

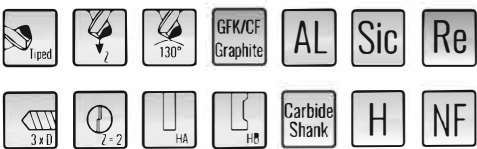
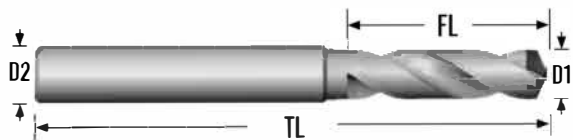


| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>ANGLE |
|------------|------------|------------|------------|------------|
| 3.0        | 4          | 20         | 60         | 130°       |
| 3.1        | 4          | 20         | 60         | 130°       |
| 3.2        | 4          | 20         | 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<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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°       |

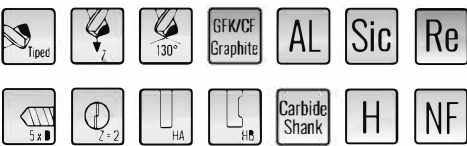
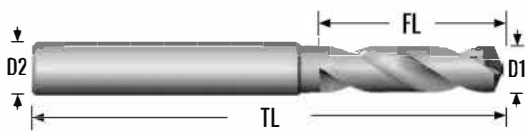
PCD Tipped Drills



| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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 Tipped Drills

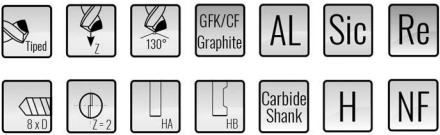
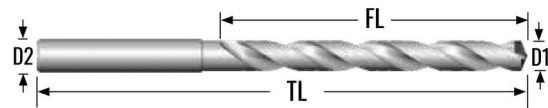


| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>ANGLE |
|------------|------------|------------|------------|------------|
| 3.5        | 4          | 20         | 60         | 130°       |
| 3.6        | 4          | 20         | 60         | 130°       |
| 3.7        | 4          | 20         | 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<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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°       |



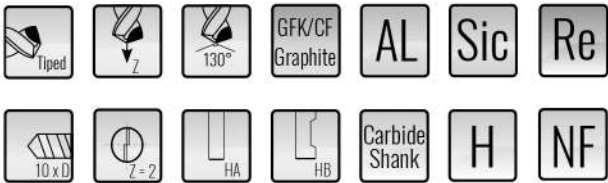
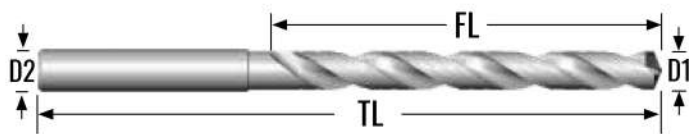
PCD Tipped Drills



| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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°       |

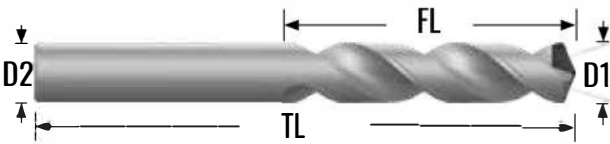
PCD Tipped Drills



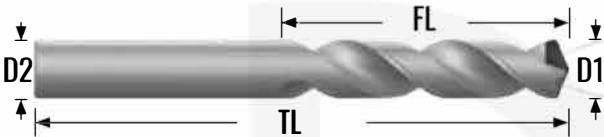
| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>ANGLE |
|------------|------------|------------|------------|------------|
| 6.0        | 8          | 90         | 130        | 130°       |
| 6.1        | 8          | 90         | 130        | 130°       |
| 6.2        | 8          | 90         | 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<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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 Tipped Drills with Internal Coolant



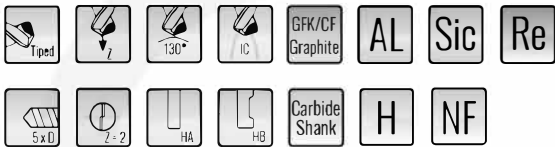
| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>ANGLE |
|------------|------------|------------|------------|------------|
| 8.0        | 8          | 25         | 65         | 130°       |
| 8.2        | 10         | 35         | 75         | 130°       |
| 8.6        | 10         | 35         | 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<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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°       |

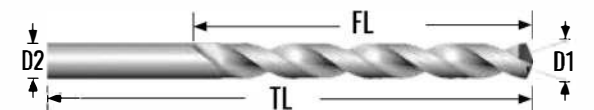


| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>ANGLE |
|------------|------------|------------|------------|------------|
| 10.4       | 12         | 40         | 80         | 130°       |
| 10.6       | 12         | 40         | 80         | 130°       |
| 10.8       | 12         | 40         | 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°       |

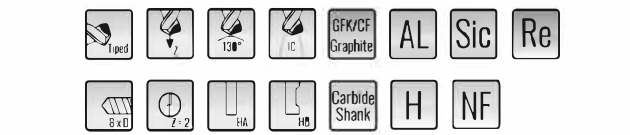


| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>ANGLE |
|------------|------------|------------|------------|------------|
| 10.4       | 12         | 60         | 100        | 130°       |
| 10.6       | 12         | 60         | 100        | 130°       |
| 10.8       | 12         | 60         | 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°       |

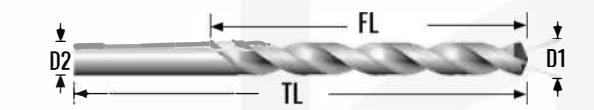
PCD Tipped Drills with Internal Coolant



| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>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°       |

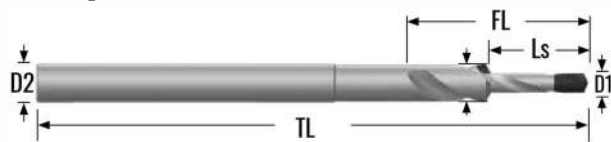


| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>ANGLE |
|------------|------------|------------|------------|------------|
| 8.0        | 8          | 90         | 130        | 130°       |
| 8.2        | 10         | 120        | 160        | 130°       |
| 8.6        | 10         | 120        | 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°       |

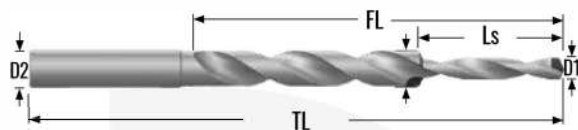


| D1<br>[mm] | D2<br>[mm] | FL<br>[mm] | TL<br>[mm] | a<br>ANGLE |
|------------|------------|------------|------------|------------|
| 10.4       | 12         | 120        | 160        | 130°       |
| 10.6       | 12         | 120        | 160        | 130°       |
| 10.8       | 12         | 120        | 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 Step Drills



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

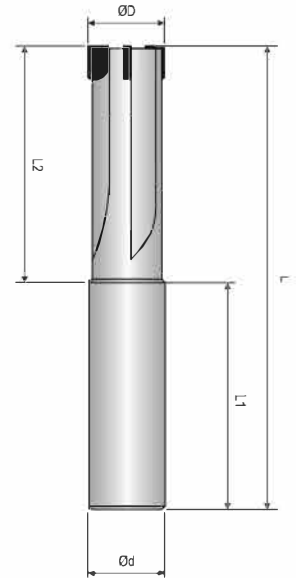


| D1<br>[mm] | D2<br>[mm] | LS<br>[mm] | FL<br>[mm] | a<br>ANGLE | a2<br>Chamfer | TL<br>[mm] |
|------------|------------|------------|------------|------------|---------------|------------|
| 6          | 8          | 70         | 90         | 130°       | 60°           | 130        |
| 8         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

# PCD & CBN Reamers

## 4 FLUTE PARALLEL SHANK

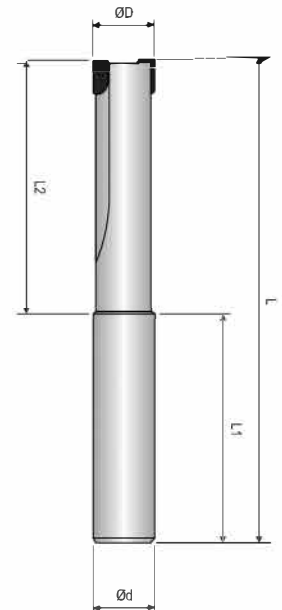
| D                | d              | L              | L1           | L2             |
|------------------|----------------|----------------|--------------|----------------|
| Cutting Diameter | Shank Diameter | Overall Length | Shank Length | Working Length |
| 10               | 10             | 80             | 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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