

DRILLS

Drills

Solid Carbide Drills



a wide variety of
solid carbide drills
that will drive
hole production
from acceptable to
superior

1565 AlumaDrill

Titanium Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



Basic Information:

- Advanced Performance
- 130° High Performance Point
- 3 Parabolic Style Flutes
 - 30° Helix
 - Right Hand Spiral
 - Right Hand Cut
- Self-Centering
- Standard Uncoated
- Inch and Metric Based Tools
- Dura Carb (Micrograin)

Tolerance:

- Shank Diameter: +.0000" -.0005"
 +0.000mm -0.013mm
- Cutter Diameter: +.0000" -.0005"
 +0.000mm -0.013mm

* Items are made to order and not planned as a normal stocked item. Contact us for current stock status or for lead time at time of order. If you have an * item that you need us to stock, please contact us and we will work with you.

| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| .0625 | 1/16 | 1.59 | | .7500 | .0625 | 1.5000 | 15424 |
| .0670 | | 1.70 | 51 | .7500 | .0670 | 1.5000 | 19000 |
| .0730 | | 1.85 | 49 | .8750 | .0730 | 1.7500 | 19001 |
| .0781 | 5/64 | 1.98 | | .8750 | .0781 | 1.7500 | 15425 |
| .0820 | | 2.08 | 45 | .8750 | .0820 | 1.7500 | 19003 |
| .0890 | | 2.26 | 43 | 1.0000 | .0890 | 2.0000 | 15445 |
| .0938 | 3/32 | 2.38 | | 1.0000 | .0938 | 2.0000 | 15426 |
| .0980 | | 2.49 | 40 | 1.2500 | .0980 | 2.2500 | 15600 |
| .1065 | | 2.71 | 36 | 1.2500 | .1065 | 2.2500 | 15601 |
| .1094 | 7/64 | 2.78 | | 1.2500 | .1094 | 2.2500 | 15427 |
| .1130 | | 2.87 | 33 | 1.2500 | .1130 | 2.2500 | 15602 |
| .1250 | 1/8 | 3.18 | | .8750 | .1250 | 1.5000 | 19008 |
| .1250 | 1/8 | 3.18 | | 1.2500 | .1250 | 2.2500 | 15428 |
| .1285 | | 3.26 | 30 | 1.3750 | .1285 | 2.5000 | 15603 |
| .1360 | | 3.45 | 29 | 1.3750 | .1360 | 2.5000 | 15604 |
| .1406 | 9/64 | 3.57 | | 1.3750 | .1406 | 2.5000 | 15429 |
| .1495 | | 3.80 | 25 | 1.3750 | .1495 | 2.5000 | 15605 |
| .1520 | | 3.86 | 24 | 1.3750 | .1520 | 2.5000 | 19010 |
| .1562 | 5/32 | 3.97 | | 1.3750 | .1562 | 2.5000 | 15430 |
| .1570 | | 3.99 | 22 | 1.3750 | .1570 | 2.5000 | 15606 |
| .1590 | | 4.04 | 21 | 1.3750 | .1590 | 2.5000 | 19012 |
| .1719 | 11/64 | 4.37 | | 1.6250 | .1719 | 2.7500 | 15431 |
| .1730 | | 4.39 | 17 | 1.6250 | .1730 | 2.7500 | 19014 |
| .1770 | | 4.50 | 16 | 1.6250 | .1770 | 2.7500 | 19015 |
| .1800 | | 4.57 | 15 | 1.6250 | .1800 | 2.7500 | 19016 |
| .1875 | 3/16 | 4.76 | | 1.0000 | .1875 | 2.0000 | 19018 |
| .1875 | 3/16 | 4.76 | | 1.6250 | .1875 | 2.7500 | 15432 |
| .1960 | | 4.98 | 9 | 1.7500 | .1960 | 3.0000 | 19019 |
| .1990 | | 5.05 | 8 | 1.7500 | .1990 | 3.0000 | 19020 |
| .2010 | | 5.11 | 7 | 1.7500 | .2010 | 3.0000 | 15226 |
| .2031 | 13/64 | 5.16 | | 1.7500 | .2031 | 3.0000 | 15433 |
| .2130 | | 5.41 | 3 | 1.7500 | .2130 | 3.0000 | 15607 |
| .2188 | 7/32 | 5.56 | | 1.7500 | .2188 | 3.0000 | 15434 |
| .2280 | | 5.79 | 1 | 1.7500 | .2280 | 3.0000 | 19022 |
| .2344 | 15/64 | 5.95 | | 2.0000 | .2344 | 3.2500 | 15435 |

DRILLS

ADVANCED PERFORMANCE



3 FLUTE

mm METRIC

* Non Stocked

DRILLS

1565 AlumaDrill

Titanium Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



ADVANCED PERFORMANCE

130°

3 FLUTE

mm METRIC

* Non Stocked

| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|---------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| .2500 | 1/4 | 6.35 | | 1.2500 | .2500 | 2.5000 | 19024 |
| .2500 | 1/4 | 6.35 | | 2.0000 | .2500 | 3.2500 | 15436 |
| .2570 | | 6.53 | F | 2.1250 | .2570 | 3.5000 | 15608 |
| .2720 | | 6.91 | I | 2.1250 | .2720 | 3.5000 | 15609 |
| .2812 | 9/32 | 7.14 | | 2.1250 | .2812 | 3.5000 | 15437 |
| .3125 | 5/16 | 7.94 | | 1.6250 | .3125 | 3.0000 | 19029 |
| .3125 | 5/16 | 7.94 | | 2.3750 | .3125 | 4.0000 | 15438 |
| .3320 | | 8.43 | Q | 2.5000 | .3320 | 4.0000 | 19031 |
| .3438 | 11/32 | 8.73 | | 2.5000 | .3438 | 4.0000 | 15439 |
| .3680 | | 9.35 | U | 2.5000 | .3680 | 4.0000 | 15227 |
| .3750 | 3/8 | 9.53 | | 1.7500 | .3750 | 3.0000 | 19033 |
| .3750 | 3/8 | 9.53 | | 2.5000 | .3750 | 4.0000 | 15440 |
| .3906 | 25/64 | 9.92 | | 2.8750 | .3906 | 4.5000 | 19034 |
| .4062 | 13/32 | 10.32 | | 2.8750 | .4062 | 4.5000 | 15441 |
| .4219 | 27/64 | 10.72 | | 2.8750 | .4219 | 4.5000 | 15228 |
| .4375 | 7/16 | 11.11 | | 2.8750 | .4375 | 4.5000 | 15442 |
| .4531 | 29/64 | 11.51 | | 3.0000 | .4531 | 4.7500 | 15446 |
| .4688 | 15/32 | 11.91 | | 3.0000 | .4688 | 4.7500 | 15443 |
| .4844 | 31/64 | 12.30 | | 3.0000 | .4844 | 4.7500 | 15229 |
| .5000 | 1/2 | 12.70 | | 2.0000 | .5000 | 3.5000 | 19041 |
| .5000 | 1/2 | 12.70 | | 2.0000 | .5000 | 4.0000 | 19058 |
| .5000 | 1/2 | 12.70 | | 3.0000 | .5000 | 4.7500 | 15444 |
| .5000 | 1/2 | 12.70 | | 4.0000 | .5000 | 6.0000 | 15489 |
| .5156 | 33/64 | 13.10 | | 3.2500 | .5156 | 5.0000 | 19043 |
| .5312 | 17/32 | 13.49 | | 4.0000 | .5312 | 6.0000 | 15490 |
| .5625 | 9/16 | 14.29 | | 4.0000 | .5625 | 6.0000 | 15491 |
| .5781 | 37/64 | 14.68 | | 4.0000 | .5781 | 6.0000 | 19047 |
| .5938 | 19/32 | 15.08 | | 4.0000 | .5938 | 6.0000 | 15492 |
| .6250 | 5/8 | 15.88 | | 2.6250 | .6250 | 4.5000 | 19050 |
| .6250 | 5/8 | 15.88 | | 4.0000 | .6250 | 6.0000 | 15493 |
| .6562 | 21/32 | 16.67 | | 4.0000 | .6562 | 6.0000 | 15494 |
| .6875 | 11/16 | 17.46 | | 4.0000 | .6875 | 6.0000 | 15495 |
| .7188 | 23/32 | 18.26 | | 4.0000 | .7188 | 6.0000 | 15496 |
| .7500 | 3/4 | 19.05 | | 2.6250 | .7500 | 4.5000 | 19055 |
| .7500 | 3/4 | 19.05 | | 4.0000 | .7500 | 6.0000 | 15497 |
| .7656 | 49/64 | 19.45 | | 4.0000 | .7656 | 6.0000 | 15230 |
| .8750 | 7/8 | 22.23 | | 4.0000 | .8750 | 6.0000 | 15498 |
| 1.0000 | 1 | 25.40 | | 4.0000 | 1.0000 | 6.0000 | 15499 |
| METRIC (Millimeter) | | | | | | | |
| .0787 | | 2.00 | | 25.00 | 3.00 | 50.00 | 19002 |
| .0906 | | 2.30 | | 25.00 | 3.00 | 50.00 | 19004 |
| .1024 | | 2.60 | | 32.00 | 3.00 | 57.00 | 19005 |
| .1142 | | 2.90 | | 32.00 | 3.00 | 57.00 | 19006 |
| .1181 | | 3.00 | | 22.00 | 3.00 | 38.00 | 19007 |
| .1181 | | 3.00 | | 32.00 | 3.00 | 57.00 | 15675 |
| .1299 | | 3.30 | | 35.00 | 6.00 | 64.00 | 15231 |
| .1457 | | 3.70 | | 35.00 | 6.00 | 64.00 | 19009 |
| .1575 | | 4.00 | | 23.00 | 6.00 | 50.00 | 19011 |
| .1575 | | 4.00 | | 35.00 | 6.00 | 64.00 | 15677 |
| .1654 | | 4.20 | | 45.00 | 6.00 | 76.00 | 15232 |
| .1693 | | 4.30 | | 45.00 | 6.00 | 76.00 | 19013 |
| .1811 | | 4.60 | | 45.00 | 6.00 | 76.00 | 19017 |
| .1969 | | 5.00 | | 45.00 | 6.00 | 76.00 | 15683 |

1565 AlumaDrill

Titanium Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| .2047 | | 5.20 | | 50.00 | 6.00 | 82.00 | 19021 |
| .2362 | | 6.00 | | 32.00 | 6.00 | 64.00 | 19023 |
| .2362 | | 6.00 | | 50.00 | 6.00 | 82.00 | 15688 |
| .2677 | | 6.80 | | 54.00 | 8.00 | 100.00 | 15233 |
| .2756 | | 7.00 | | 36.00 | 8.00 | 76.00 | 19025 |
| .2756 | | 7.00 | | 54.00 | 8.00 | 100.00 | 15689 |
| .2874 | | 7.30 | | 54.00 | 8.00 | 100.00 | 19026 |
| .2913 | | 7.40 | | 54.00 | 8.00 | 100.00 | 19027 |
| .2953 | | 7.50 | | 54.00 | 8.00 | 100.00 | 19028 |
| .3071 | | 7.80 | | 60.00 | 8.00 | 100.00 | 15234 |
| .3150 | | 8.00 | | 40.00 | 8.00 | 76.00 | 19030 |
| .3150 | | 8.00 | | 60.00 | 8.00 | 100.00 | 15690 |
| .3346 | | 8.50 | | 63.00 | 10.00 | 100.00 | 15235 |
| .3543 | | 9.00 | | 63.00 | 10.00 | 100.00 | 19032 |
| .3740 | | 9.50 | | 63.00 | 10.00 | 100.00 | 15236 |
| .3937 | | 10.00 | | 44.00 | 10.00 | 76.00 | 19035 |
| .3937 | | 10.00 | | 63.00 | 10.00 | 100.00 | 15691 |
| .4016 | | 10.20 | | 73.00 | 12.00 | 125.00 | 15237 |
| .4173 | | 10.60 | | 73.00 | 12.00 | 125.00 | 19036 |
| .4331 | | 11.00 | | 73.00 | 12.00 | 125.00 | 15242* |
| .4448 | | 11.30 | | 73.00 | 12.00 | 125.00 | 19037 |
| .4724 | | 12.00 | | 50.00 | 12.00 | 100.00 | 19038 |
| .4724 | | 12.00 | | 76.00 | 12.00 | 125.00 | 15692 |
| .4764 | | 12.10 | | 76.00 | 14.00 | 125.00 | 19039 |
| .4823 | | 12.25 | | 76.00 | 14.00 | 125.00 | 15243* |
| .4921 | | 12.50 | | 76.00 | 14.00 | 125.00 | 19040 |
| .5039 | | 12.80 | | 76.00 | 14.00 | 125.00 | 19042 |
| .5118 | | 13.00 | | 76.00 | 14.00 | 125.00 | 15244 |
| .5197 | | 13.20 | | 76.00 | 14.00 | 125.00 | 19044 |
| .5354 | | 13.60 | | 76.00 | 14.00 | 125.00 | 19045 |
| .5512 | | 14.00 | | 101.00 | 14.00 | 150.00 | 15238 |
| .5709 | | 14.50 | | 101.00 | 16.00 | 150.00 | 19046 |
| .5827 | | 14.80 | | 101.00 | 16.00 | 150.00 | 19048 |
| .5906 | | 15.00 | | 101.00 | 16.00 | 150.00 | 15694 |
| .5984 | | 15.20 | | 101.00 | 16.00 | 150.00 | 19049 |
| .6102 | | 15.50 | | 101.00 | 16.00 | 150.00 | 15239 |
| .6299 | | 16.00 | | 67.00 | 16.00 | 112.50 | 19051 |
| .6299 | | 16.00 | | 101.00 | 16.00 | 150.00 | 15695 |
| .6496 | | 16.50 | | 101.00 | 18.00 | 150.00 | 15696 |
| .6693 | | 17.00 | | 101.00 | 18.00 | 150.00 | 15697 |
| .6890 | | 17.50 | | 101.00 | 18.00 | 150.00 | 15240 |
| .7047 | | 17.90 | | 101.00 | 18.00 | 150.00 | 19052 |
| .7244 | | 18.40 | | 101.00 | 20.00 | 150.00 | 19053 |
| .7283 | | 18.50 | | 101.00 | 20.00 | 150.00 | 19054 |
| .7559 | | 19.20 | | 101.00 | 20.00 | 150.00 | 19056 |
| .7677 | | 19.50 | | 101.00 | 20.00 | 150.00 | 15241* |
| .7874 | | 20.00 | | 67.00 | 20.00 | 125.00 | 19057 |
| .7874 | | 20.00 | | 101.00 | 20.00 | 150.00 | 15698 |

DRILLS

ADVANCED PERFORMANCE



mm METRIC

* Non Stocked

DRILLS

150°

3
FLUTE

* Non Stocked

1540 Thinned Point

Titanium Hardened Steels >48RC Steels Cast Iron Wood General Purpose



Basic Information:

- 150° Thinned Point
- 3 Flutes
 - 30° Helix
 - Right Hand Spiral
 - Right Hand Cut
- Standard Uncoated
- Inch Based Tools
- Dura Carb (Micrograin)

Tolerance:

- Shank Diameter: +.0000" -.0015"
 +0.000mm -0.038mm
- Cutter Diameter: +.0000" -.0005"
 +0.000mm -0.013mm

** Items are made to order and not planned as a normal stocked item. Contact us for current stock status or for lead time at time of order. If you have an * item that you need us to stock, please contact us and we will work with you.*

| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| .0625 | 1/16 | 1.59 | | .7500 | .0625 | 1.5000 | 15401 |
| .0781 | 5/64 | 1.98 | | .8750 | .0781 | 1.7500 | 15402 |
| .0938 | 3/32 | 2.38 | | 1.0000 | .0938 | 2.0000 | 15403 |
| .0980 | | 2.49 | 40 | 1.2500 | .0980 | 2.2500 | 15550 |
| .1065 | | 2.71 | 36 | 1.2500 | .1065 | 2.2500 | 15551 |
| .1094 | 7/64 | 2.78 | | 1.2500 | .1094 | 2.2500 | 15404 |
| .1130 | | 2.87 | 33 | 1.2500 | .1130 | 2.2500 | 15552 |
| .1250 | 1/8 | 3.18 | | 1.2500 | .1250 | 2.2500 | 15405 |
| .1285 | | 3.26 | 30 | 1.3750 | .1285 | 2.5000 | 15553 |
| .1360 | | 3.45 | 29 | 1.3750 | .1360 | 2.5000 | 15554 |
| .1406 | 9/64 | 3.57 | | 1.3750 | .1406 | 2.5000 | 15406 |
| .1495 | | 3.80 | 25 | 1.3750 | .1495 | 2.5000 | 15555 |
| .1562 | 5/32 | 3.97 | | 1.3750 | .1562 | 2.5000 | 15407 |
| .1570 | | 3.99 | 22 | 1.3750 | .1570 | 2.5000 | 15556 |
| .1610 | | 4.09 | 20 | 1.3750 | .1610 | 2.5000 | 15422* |
| .1719 | 11/64 | 4.37 | | 1.6250 | .1719 | 2.7500 | 15408 |
| .1875 | 3/16 | 4.76 | | 1.6250 | .1875 | 2.7500 | 15409 |
| .1935 | | 4.91 | 10 | 1.6250 | .1935 | 2.7500 | 15423* |
| .2031 | 13/64 | 5.16 | | 1.7500 | .2031 | 3.0000 | 15410 |
| .2130 | | 5.41 | 3 | 1.7500 | .2130 | 3.0000 | 15557 |
| .2188 | 7/32 | 5.56 | | 1.7500 | .2188 | 3.0000 | 15411 |
| .2344 | 15/64 | 5.95 | | 2.0000 | .2344 | 3.2500 | 15412 |
| .2500 | 1/4 | 6.35 | | 2.0000 | .2500 | 3.2500 | 15413 |
| .2570 | | 6.53 | F | 2.1250 | .2570 | 3.5000 | 15558 |
| .2720 | | 6.91 | I | 2.1250 | .2720 | 3.5000 | 15559 |
| .2812 | 9/32 | 7.14 | | 2.1250 | .2812 | 3.5000 | 15414 |
| .3125 | 5/16 | 7.94 | | 2.3750 | .3125 | 4.0000 | 15415 |
| .3438 | 11/32 | 8.73 | | 2.5000 | .3438 | 4.0000 | 15416 |
| .3750 | 3/8 | 9.53 | | 2.5000 | .3750 | 4.0000 | 15417 |
| .4062 | 13/32 | 10.32 | | 2.8750 | .4062 | 4.5000 | 15418 |
| .4375 | 7/16 | 11.11 | | 2.8750 | .4375 | 4.5000 | 15419 |

1540 Thinned Point

Titanium Hardened Steels >48RC Steels Cast Iron Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| .4688 | 15/32 | 11.91 | | 3.0000 | .4688 | 4.7500 | 15420 |
| .5000 | 1/2 | 12.70 | | 3.0000 | .5000 | 4.7500 | 15421 |
| .5000 | 1/2 | 12.70 | | 4.0000 | .5000 | 6.0000 | 15478 |
| .5312 | 17/32 | 13.49 | | 4.0000 | .5312 | 6.0000 | 15479 |
| .5625 | 9/16 | 14.29 | | 4.0000 | .5625 | 6.0000 | 15480 |
| .5938 | 19/32 | 15.08 | | 4.0000 | .5938 | 6.0000 | 15481 |
| .6250 | 5/8 | 15.88 | | 4.0000 | .6250 | 6.0000 | 15482 |
| .6562 | 21/32 | 16.67 | | 4.0000 | .6562 | 6.0000 | 15483 |
| .6875 | 11/16 | 17.46 | | 4.0000 | .6875 | 6.0000 | 15484 |
| .7188 | 23/32 | 18.26 | | 4.0000 | .7188 | 6.0000 | 15485 |
| .7500 | 3/4 | 19.05 | | 4.0000 | .7500 | 6.0000 | 15486 |
| .8750 | 7/8 | 22.23 | | 4.0000 | .8750 | 6.0000 | 15487 |
| 1.0000 | 1 | 25.40 | | 4.0000 | 1.0000 | 6.0000 | 15488 |

DRILLS

150°

3
FLUTE

* Non Stocked

1505 Dominator

Titanium Super Alloys Hardened Steels >48HRC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



Basic Information:

- Advanced Performance
- 144° Dominator Point
- 2 Flutes
 - 30° Helix
 - Right Hand Spiral
 - Right Hand Cut
- Standard FC-7 Coating
- Coolant Through and Solid
- Inch and Metric Based Tools
- Dura Carb (Micrograin)

Tolerance:

- Shank Diameter: +.0000" -.0005"
 +0.000mm -0.013mm
- Cutter Diameter: +.0000" -.0005"
 +0.000mm -0.013mm

** Items are made to order and not planned as a normal stocked item. Contact us for current stock status or for lead time at time of order. If you have an * item that you need us to stock, please contact us and we will work with you.*

ADVANCED PERFORMANCE

144°

2 FLUTE

FC-7 COATING

COOLANT HOLES

mm METRIC

* Non Stocked

| Cutting Diameter | | | | Flute Length | Cleared Length | Shank Diameter | Overall Length | Coolant Through | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|----------------|-----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | | | |
| .0938 | 3/32 | 2.38 | | .5000 | .4062 | .0938 | 2.0000 | | 15000* |
| .1015 | | 2.58 | 38 | .5000 | .4062 | .1250 | 2.0000 | | 15001 |
| .1040 | | 2.64 | 37 | .5000 | .4062 | .1250 | 2.0000 | | 15002* |
| .1065 | | 2.71 | 36 | .5625 | .4688 | .1250 | 2.0000 | | 15003 |
| .1130 | | 2.87 | 33 | .5625 | .4688 | .1250 | 2.0000 | | 15004* |
| .1250 | 1/8 | 3.18 | | .6250 | .5000 | .1250 | 2.0000 | | 15006 |
| .1360 | | 3.45 | 29 | .6875 | .5625 | .1875 | 2.7500 | | 15007* |
| .1405 | | 3.57 | 28 | .6875 | .5625 | .1875 | 3.0000 | | 15009* |
| .1470 | | 3.73 | 26 | .7500 | .6250 | .1875 | 3.0000 | | 15011* |
| .1495 | | 3.80 | 25 | .7500 | .6250 | .1875 | 3.0000 | | 15248 |
| .1540 | | 3.91 | 23 | .7500 | .6250 | .1875 | 3.0000 | | 15249* |
| .1562 | 5/32 | 3.97 | | .7500 | .6250 | .1875 | 3.0000 | | 15250 |
| .1590 | | 4.03 | 21 | .8125 | .6562 | .1875 | 3.0000 | | 15251* |
| .1770 | | 4.50 | 16 | .8750 | .7188 | .1875 | 3.0000 | | 15252 |
| .1770 | | 4.50 | 16 | 1.2500 | 1.0938 | .1875 | 3.2500 | • | 15325* |
| .1820 | | 4.62 | 14 | .8750 | .7188 | .1875 | 3.0000 | | 15254* |
| .1820 | | 4.62 | 14 | 1.2500 | 1.0938 | .1875 | 3.2500 | • | 15327* |
| .1850 | | 4.70 | 13 | .9375 | .7812 | .1875 | 3.0000 | | 15255* |
| .1850 | | 4.70 | 13 | 1.2500 | 1.0938 | .1875 | 3.2500 | • | 15328* |
| .1875 | 3/16 | 4.76 | | .9375 | .7500 | .1875 | 3.0000 | | 15257 |
| .1875 | 3/16 | 4.76 | | 1.3125 | 1.1250 | .1875 | 3.2500 | • | 15329 |
| .2010 | | 5.11 | 7 | 1.5000 | 1.1250 | .2500 | 3.0000 | | 15615 |
| .2031 | 13/64 | 5.16 | | 1.5000 | 1.1250 | .2500 | 3.0000 | | 15653 |
| .2055 | | 5.22 | 5 | 1.0000 | .8125 | .2500 | 3.0000 | | 15259 |
| .2130 | | 5.41 | 3 | 1.0938 | .9062 | .2500 | 3.0000 | | 15260 |
| .2188 | 7/32 | 5.56 | | 1.0938 | .8750 | .2500 | 3.0000 | | 15263 |
| .2500 | 1/4 | 6.35 | | 1.5000 | 1.1250 | .2500 | 3.0000 | | 15614 |
| .2500 | 1/4 | 6.35 | | 2.3750 | 2.0000 | .2500 | 4.0000 | • | 15636 |
| .2570 | | 6.53 | F | 1.5000 | 1.1250 | .2500 | 3.0000 | | 15616 |
| .2570 | | 6.53 | F | 1.5000 | 1.1250 | .3125 | 3.0000 | | 15529 |

1505 Dominator

Titanium Super Alloys Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



| Cutting Diameter | | | | Flute Length | Cleared Length | Shank Diameter | Overall Length | Coolant Through | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|----------------|-----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | | | |
| .2570 | | 6.53 | F | 2.3750 | 2.0000 | .2500 | 4.0000 | • | 15638 |
| .2656 | 17/64 | 6.75 | | 1.5000 | 1.1250 | .2500 | 3.0000 | | 15617 |
| .2656 | 17/64 | 6.75 | | 1.5000 | 1.1250 | .3125 | 3.0000 | | 15530 |
| .2656 | 17/64 | 6.75 | | 1.8750 | 1.6250 | .3125 | 4.0000 | • | 15337 |
| .2720 | | 6.91 | I | 1.5000 | 1.1250 | .3125 | 3.0000 | | 15618 |
| .2720 | | 6.91 | I | 2.3750 | 2.0000 | .2500 | 4.0000 | • | 15640 |
| .2812 | 9/32 | 7.14 | | 1.5000 | 1.1250 | .3125 | 3.0000 | | 15621 |
| .2812 | 9/32 | 7.14 | | 2.0000 | 1.7500 | .3125 | 4.0000 | • | 15339 |
| .2969 | 19/64 | 7.54 | | 1.5000 | 1.1250 | .3125 | 3.0000 | | 15623 |
| .2969 | 19/64 | 7.54 | | 2.0000 | 1.7188 | .3125 | 4.0000 | • | 15341* |
| .3125 | 5/16 | 7.94 | | 1.5000 | 1.1250 | .3125 | 3.0000 | | 15620 |
| .3125 | 5/16 | 7.94 | | 2.3750 | 2.0000 | .3125 | 4.0000 | • | 15642 |
| .3230 | | 8.20 | P | 2.0000 | 1.5000 | .3750 | 4.0000 | | 15651 |
| .3281 | 21/64 | 8.33 | | 2.0000 | 1.5000 | .3750 | 4.0000 | | 15625 |
| .3320 | | 8.43 | Q | 1.6875 | 1.3750 | .3750 | 4.0000 | | 15266 |
| .3438 | 11/32 | 8.73 | | 2.0000 | 1.5000 | .3750 | 4.0000 | | 15629 |
| .3438 | 11/32 | 8.73 | | 2.5000 | 2.0000 | .3750 | 4.0000 | • | 15346 |
| .3594 | 23/64 | 9.13 | | 2.0000 | 1.5000 | .3750 | 4.0000 | | 15630 |
| .3594 | 23/64 | 9.13 | | 2.5000 | 2.0000 | .3750 | 4.0000 | • | 15349* |
| .3680 | | 9.35 | U | 2.0000 | 1.5000 | .3750 | 4.0000 | | 15175 |
| .3680 | | 9.35 | U | 2.5000 | 2.0000 | .3750 | 4.0000 | • | 15378 |
| .3750 | 3/8 | 9.53 | | 2.0000 | 1.5000 | .3750 | 4.0000 | | 15622 |
| .3750 | 3/8 | 9.53 | | 2.5000 | 2.0000 | .3750 | 4.0000 | • | 15644 |
| .3906 | 25/64 | 9.92 | | 2.2500 | 1.7500 | .4375 | 4.0000 | | 15631 |
| .3906 | 25/64 | 9.92 | | 2.7500 | 2.3750 | .4375 | 4.5000 | • | 15380* |
| .4062 | 13/32 | 10.32 | | 2.2500 | 1.7500 | .4375 | 4.0000 | | 15633 |
| .4062 | 13/32 | 10.32 | | 2.7500 | 2.3750 | .4375 | 4.5000 | • | 15382 |
| .4219 | 27/64 | 10.72 | | 2.2500 | 1.7500 | .4375 | 4.0000 | | 15624 |
| .4219 | 27/64 | 10.72 | | 2.5000 | 2.0000 | .4375 | 4.0000 | • | 15646 |
| .4375 | 7/16 | 11.11 | | 2.2500 | 1.7500 | .4375 | 4.0000 | | 15626 |
| .4375 | 7/16 | 11.11 | | 2.5000 | 2.0000 | .4375 | 4.0000 | • | 15648 |
| .4531 | 29/64 | 11.51 | | 2.5000 | 2.0000 | .5000 | 4.5000 | | 15635 |
| .4531 | 29/64 | 11.51 | | 3.2500 | 2.8125 | .5000 | 5.0000 | • | 15387* |
| .4688 | 15/32 | 11.91 | | 2.5000 | 2.0000 | .5000 | 4.5000 | | 15679 |
| .4688 | 15/32 | 11.91 | | 3.2500 | 2.7812 | .5000 | 5.0000 | • | 15388 |
| .4844 | 31/64 | 12.30 | | 2.5000 | 2.0000 | .5000 | 4.5000 | | 15681 |
| .4844 | 31/64 | 12.30 | | 3.3750 | 2.9062 | .5000 | 5.0000 | • | 15389 |
| .5000 | 1/2 | 12.70 | | 2.5000 | 2.0000 | .5000 | 4.5000 | | 15628 |
| .5000 | 1/2 | 12.70 | | 3.5000 | 3.0000 | .5000 | 6.0000 | • | 15650 |
| .5156 | 33/64 | 13.10 | | 2.5625 | 2.0625 | .6250 | 5.0000 | | 15274* |
| .5312 | 17/32 | 13.49 | | 4.0000 | 3.5000 | .6250 | 6.0000 | | 15176 |
| .5312 | 17/32 | 13.49 | | 4.0000 | 3.5000 | .6250 | 6.0000 | • | 15393 |
| .5469 | 35/64 | 13.89 | | 2.7500 | 2.2188 | .6250 | 5.0000 | | 15285* |
| .5469 | 35/64 | 13.89 | | 4.0000 | 3.5000 | .6250 | 6.0000 | • | 15395* |
| .5625 | 9/16 | 14.29 | | 4.0000 | 3.5000 | .5625 | 6.0000 | | 15693 |
| .5625 | 9/16 | 14.29 | | 4.0000 | 3.5000 | .5625 | 6.0000 | • | 15652 |
| .5781 | 37/64 | 14.68 | | 2.8750 | 2.3125 | .6250 | 5.0000 | | 15287* |
| .5781 | 37/64 | 14.68 | | 4.0000 | 3.5000 | .6250 | 6.0000 | • | 15398* |
| .6250 | 5/8 | 15.88 | | 4.0000 | 3.5000 | .6250 | 6.0000 | | 15685 |
| .6250 | 5/8 | 15.88 | | 4.0000 | 3.5000 | .6250 | 6.0000 | • | 15654 |
| .6562 | 21/32 | 16.67 | | 4.0000 | 3.5000 | .7500 | 6.0000 | | 15177 |
| .6562 | 21/32 | 16.67 | | 4.5000 | 3.8750 | .7500 | 7.0000 | • | 15400* |
| .6875 | 11/16 | 17.46 | | 4.0000 | 3.5000 | .7500 | 6.0000 | | 15686 |
| .6875 | 11/16 | 17.46 | | 4.0000 | 3.5000 | .7500 | 6.0000 | • | 15649 |

DRILLS

ADVANCED PERFORMANCE



* Non Stocked

DRILLS

1505 Dominator

Titanium Super Alloys Hardened Steels >48HRC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



ADVANCED PERFORMANCE



* Non Stocked

| Cutting Diameter | | | | Flute Length | Cleared Length | Shank Diameter | Overall Length | Coolant Through | EDP Number |
|---------------------|------------|------------|-------------|--------------|----------------|----------------|----------------|-----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | | | |
| .7031 | 45/64 | 17.86 | | 3.5000 | 2.8125 | .7500 | 6.0000 | | 15288* |
| .7031 | 45/64 | 17.86 | | 5.0000 | 4.3125 | .7500 | 7.0000 | • | 15523* |
| .7500 | 3/4 | 19.05 | | 4.0000 | 3.5000 | .7500 | 6.0000 | | 15687 |
| .7500 | 3/4 | 19.05 | | 4.0000 | 3.5000 | .7500 | 6.0000 | • | 15656 |
| .7656 | 49/64 | 19.45 | | 4.0000 | 3.5000 | .8750 | 6.0000 | | 15178 |
| .8750 | 7/8 | 22.23 | | 4.0000 | 3.5000 | .8750 | 6.0000 | | 15179* |
| 1.0000 | 1 | 25.40 | | 5.0000 | 4.0000 | 1.0000 | 7.0000 | | 15292* |
| 1.0000 | 1 | 25.40 | | 7.0000 | 6.0000 | 1.0000 | 9.0000 | • | 15528* |
| METRIC (Millimeter) | | | | | | | | | |
| .1181 | | 3.00 | | 16.00 | 13.49 | 3.00 | 50.00 | | 15005 |
| .1181 | | 3.00 | | 38.00 | 30.00 | 3.00 | 76.00 | • | 15710 |
| .1299 | | 3.30 | | 38.00 | 30.00 | 6.00 | 76.00 | | 15180 |
| .1378 | | 3.50 | | 18.00 | 15.08 | 6.00 | 64.00 | | 15008* |
| .1457 | | 3.70 | | 18.00 | 15.08 | 6.00 | 64.00 | | 15010* |
| .1575 | | 4.00 | | 38.00 | 30.00 | 4.00 | 76.00 | • | 15711 |
| .1654 | | 4.20 | | 38.00 | 30.00 | 6.00 | 76.00 | | 15181 |
| .1772 | | 4.50 | | 22.00 | 18.26 | 6.00 | 64.00 | | 15253* |
| .1772 | | 4.50 | | 32.00 | 27.78 | 6.00 | 84.00 | • | 15326* |
| .1969 | | 5.00 | | 38.00 | 30.00 | 5.00 | 76.00 | • | 15712 |
| .1969 | | 5.00 | | 38.00 | 30.00 | 6.00 | 76.00 | | 15613 |
| .2047 | | 5.20 | | 26.00 | 21.43 | 6.00 | 64.00 | | 15258 |
| .2165 | | 5.50 | | 28.00 | 23.02 | 6.00 | 64.00 | | 15261* |
| .2165 | | 5.50 | | 38.00 | 30.00 | 6.00 | 101.00 | • | 15334* |
| .2362 | | 6.00 | | 38.00 | 30.00 | 6.00 | 76.00 | | 15610 |
| .2362 | | 6.00 | | 50.00 | 42.00 | 6.00 | 101.00 | • | 15713 |
| .2559 | | 6.50 | | 32.00 | 26.19 | 8.00 | 76.00 | | 15264* |
| .2677 | | 6.80 | | 38.00 | 30.00 | 8.00 | 76.00 | | 15619 |
| .2677 | | 6.80 | | 48.00 | 41.28 | 8.00 | 101.00 | • | 15338* |
| .2756 | | 7.00 | | 38.00 | 30.00 | 8.00 | 76.00 | | 15611 |
| .2756 | | 7.00 | | 60.00 | 52.00 | 8.00 | 101.00 | • | 15714* |
| .2953 | | 7.50 | | 38.00 | 30.00 | 8.00 | 76.00 | | 15265* |
| .2953 | | 7.50 | | 50.00 | 42.86 | 8.00 | 101.00 | • | 15340* |
| .3071 | | 7.80 | | 38.00 | 30.00 | 8.00 | 76.00 | | 15182 |
| .3071 | | 7.80 | | 54.00 | 46.83 | 8.00 | 101.00 | • | 15342* |
| .3150 | | 8.00 | | 38.00 | 30.00 | 8.00 | 76.00 | | 15612 |
| .3150 | | 8.00 | | 63.00 | 54.00 | 8.00 | 101.00 | • | 15715 |
| .3346 | | 8.50 | | 50.00 | 38.00 | 10.00 | 100.00 | | 15627 |
| .3465 | | 8.80 | | 45.00 | 36.51 | 10.00 | 100.00 | | 15267* |
| .3465 | | 8.80 | | 60.00 | 51.59 | 10.00 | 101.00 | • | 15347* |
| .3543 | | 9.00 | | 45.00 | 36.51 | 10.00 | 100.00 | | 15268* |
| .3543 | | 9.00 | | 60.00 | 51.59 | 10.00 | 101.00 | • | 15348* |
| .3740 | | 9.50 | | 50.00 | 38.00 | 10.00 | 100.00 | | 15183 |
| .3740 | | 9.50 | | 68.00 | 58.74 | 10.00 | 101.00 | • | 15379* |
| .3937 | | 10.00 | | 57.00 | 45.00 | 10.00 | 100.00 | | 15637 |
| .3937 | | 10.00 | | 63.00 | 54.00 | 10.00 | 101.00 | • | 15716 |
| .4016 | | 10.20 | | 57.00 | 45.00 | 12.00 | 125.00 | | 15632 |
| .4134 | | 10.50 | | 53.00 | 42.86 | 12.00 | 100.00 | | 15269* |
| .4134 | | 10.50 | | 74.00 | 63.50 | 12.00 | 115.00 | • | 15383* |
| .4251 | | 10.80 | | 55.00 | 44.45 | 12.00 | 100.00 | | 15270* |
| .4251 | | 10.80 | | 78.00 | 67.47 | 12.00 | 115.00 | • | 15384* |
| .4331 | | 11.00 | | 55.00 | 44.45 | 12.00 | 100.00 | | 15271* |
| .4331 | | 11.00 | | 78.00 | 67.47 | 12.00 | 115.00 | • | 15385* |
| .4528 | | 11.50 | | 63.00 | 50.00 | 12.00 | 125.00 | | 15634 |

1505 Dominator

Titanium Super Alloys Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



| Cutting Diameter | | | | Flute Length | Cleared Length | Shank Diameter | Overall Length | Coolant Through | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|----------------|-----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | | | FC-7 |
| .4528 | | 11.50 | | 82.00 | 70.64 | 12.00 | 127.00 | • | 15386* |
| .4724 | | 12.00 | | 63.00 | 50.00 | 12.00 | 125.00 | | 15680 |
| .4724 | | 12.00 | | 89.00 | 76.00 | 12.00 | 150.00 | • | 15717 |
| .4921 | | 12.50 | | 62.00 | 50.01 | 14.00 | 125.00 | | 15272 |
| .4921 | | 12.50 | | 89.00 | 76.99 | 14.00 | 127.00 | • | 15390* |
| .5118 | | 13.00 | | 65.00 | 52.39 | 14.00 | 125.00 | | 15273* |
| .5118 | | 13.00 | | 89.00 | 76.20 | 14.00 | 127.00 | • | 15391* |
| .5315 | | 13.50 | | 68.00 | 54.77 | 14.00 | 125.00 | | 15284 |
| .5315 | | 13.50 | | 95.00 | 81.76 | 14.00 | 150.00 | • | 15394* |
| .5512 | | 14.00 | | 101.00 | 88.00 | 14.00 | 150.00 | | 15682 |
| .5709 | | 14.50 | | 73.00 | 58.74 | 16.00 | 150.00 | | 15286* |
| .5709 | | 14.50 | | 101.00 | 88.00 | 16.00 | 150.00 | • | 15397* |
| .5906 | | 15.00 | | 101.00 | 88.00 | 16.00 | 150.00 | | 15639 |
| .5906 | | 15.00 | | 101.00 | 88.00 | 16.00 | 150.00 | • | 15718 |
| .6102 | | 15.50 | | 101.00 | 88.00 | 16.00 | 150.00 | | 15684 |
| .6102 | | 15.50 | | 110.00 | 95.25 | 16.00 | 150.00 | • | 15399* |
| .6299 | | 16.00 | | 101.00 | 88.00 | 16.00 | 150.00 | | 15641 |
| .6299 | | 16.00 | | 101.00 | 88.00 | 16.00 | 150.00 | • | 15719 |
| .6496 | | 16.50 | | 101.00 | 88.00 | 18.00 | 150.00 | | 15643* |
| .6496 | | 16.50 | | 101.00 | 88.00 | 18.00 | 150.00 | • | 15720 |
| .6693 | | 17.00 | | 101.00 | 88.00 | 18.00 | 150.00 | | 15645 |
| .6693 | | 17.00 | | 101.00 | 88.00 | 18.00 | 150.00 | • | 15721 |
| .6890 | | 17.50 | | 101.00 | 88.00 | 18.00 | 150.00 | | 15184 |
| .6890 | | 17.50 | | 122.00 | 104.78 | 20.00 | 150.00 | • | 15522* |
| .7087 | | 18.00 | | 90.00 | 72.23 | 18.00 | 150.00 | | 15289* |
| .7087 | | 18.00 | | 126.00 | 108.74 | 18.00 | 180.00 | • | 15524 |
| .7283 | | 18.50 | | 92.00 | 73.82 | 20.00 | 150.00 | | 15290* |
| .7283 | | 18.50 | | 129.00 | 111.13 | 20.00 | 180.00 | • | 15525* |
| .7480 | | 19.00 | | 95.00 | 76.20 | 20.00 | 150.00 | | 15291 |
| .7480 | | 19.00 | | 134.00 | 115.09 | 20.00 | 180.00 | • | 15526* |
| .7677 | | 19.50 | | 101.00 | 88.00 | 20.00 | 150.00 | | 15185 |
| .7677 | | 19.50 | | 136.00 | 116.68 | 20.00 | 180.00 | • | 15527* |
| .7874 | | 20.00 | | 101.00 | 88.00 | 20.00 | 150.00 | | 15647 |
| .7874 | | 20.00 | | 101.00 | 88.00 | 20.00 | 150.00 | • | 15722 |

DRILLS

ADVANCED PERFORMANCE



* Non Stocked

1570 Micro-Drill

Hardened Steels >48RC Steels Cast Iron Graphite High Si Al >10% Low Si Al <10% Composites Wood General Purpose



Basic Information:

- 135° Notched Point
- 2 Straight Flutes
 - Right Hand Cut
- Standard Uncoated
- Inch and Metric Based Tools
- Dura Carb (Micrograin)

Tolerance:

- Shank Diameter: +.0000" -.0005"
 +0.000mm -0.013mm
- Cutter Diameter: +.0000" -.0005"
 +0.000mm -0.013mm

| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| .0469 | 3/64 | 1.19 | | .3750 | .0469 | 1.5000 | 17500 |
| .0625 | 1/16 | 1.59 | | .3750 | .0625 | 1.5000 | 17502 |
| .0781 | 5/64 | 1.98 | | .5000 | .0781 | 1.5000 | 17504 |
| .0938 | 3/32 | 2.38 | | .5000 | .0938 | 2.0000 | 17506 |
| .1065 | | 2.71 | 36 | .6250 | .1065 | 2.0000 | 17508 |
| .1094 | 7/64 | 2.78 | | .6250 | .1094 | 2.0000 | 17510 |
| .1130 | | 2.87 | 33 | .6250 | .1130 | 2.0000 | 17512 |
| .1250 | 1/8 | 3.18 | | .6250 | .1250 | 2.0000 | 17514 |
| .1406 | 9/64 | 3.57 | | .7500 | .1406 | 2.0000 | 17516 |
| .1495 | | 3.80 | 25 | .7500 | .1495 | 2.5000 | 17518 |
| .1562 | 5/32 | 3.97 | | .7500 | .1562 | 2.5000 | 17520 |
| .1570 | | 3.99 | 22 | .7500 | .1570 | 2.5000 | 17522 |
| .1719 | 11/64 | 4.37 | | .7500 | .1719 | 2.5000 | 17524 |
| .1730 | | 4.39 | 17 | .7500 | .1730 | 2.5000 | 17526 |
| .1875 | 3/16 | 4.76 | | .7500 | .1875 | 2.5000 | 17528 |
| .2010 | | 5.11 | 7 | .7500 | .2010 | 2.5000 | 17530 |
| .2031 | 13/64 | 5.16 | | .7500 | .2031 | 2.5000 | 17532 |
| .2188 | 7/32 | 5.56 | | 1.0000 | .2188 | 2.5000 | 17534 |
| .2344 | 15/64 | 5.95 | | 1.0000 | .2344 | 2.5000 | 17536 |
| .2500 | 1/4 | 6.35 | | 1.0000 | .2500 | 2.5000 | 17538 |
| .2570 | | 6.53 | F | 1.0000 | .2570 | 2.5000 | 17540 |
| .2656 | 17/64 | 6.75 | | 1.0000 | .2656 | 2.5000 | 17542 |
| .2720 | | 6.91 | I | 1.0000 | .2720 | 2.5000 | 17544 |
| .2812 | 9/32 | 7.14 | | 1.0000 | .2812 | 2.5000 | 17546 |
| .2969 | 19/64 | 7.54 | | 1.2500 | .2969 | 3.0000 | 17548 |
| .3125 | 5/16 | 7.94 | | 1.2500 | .3125 | 3.0000 | 17550 |
| .3281 | 21/64 | 8.33 | | 1.2500 | .3281 | 3.0000 | 17552 |
| .3438 | 11/32 | 8.73 | | 1.2500 | .3438 | 3.0000 | 17554 |
| .3594 | 23/64 | 9.13 | | 1.2500 | .3594 | 3.0000 | 17556 |
| .3750 | 3/8 | 9.53 | | 1.2500 | .3750 | 3.0000 | 17558 |
| .3906 | 25/64 | 9.92 | | 1.2500 | .3906 | 3.0000 | 17560 |
| .4062 | 13/32 | 10.32 | | 1.2500 | .4062 | 3.0000 | 17562 |
| .4219 | 27/64 | 10.72 | | 1.2500 | .4219 | 3.0000 | 17564 |
| .4375 | 7/16 | 11.11 | | 1.2500 | .4375 | 3.0000 | 17566 |
| .4531 | 29/64 | 11.51 | | 1.2500 | .4531 | 3.0000 | 17568 |
| .4688 | 15/32 | 11.91 | | 1.2500 | .4688 | 3.0000 | 17570 |
| .4844 | 31/64 | 12.30 | | 1.2500 | .4844 | 3.0000 | 17572 |
| .5000 | 1/2 | 12.70 | | 1.2500 | .5000 | 3.0000 | 17574 |

1570 Micro-Drill

Hardened Steels >48RC Steels Cast Iron Graphite High Si Al >10% Low Si Al <10% Composites Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|----------------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| METRIC (Millimeter) | | | | | | | |
| .1181 | | 3.00 | | 16.00 | 3.00 | 57.00 | 15723 |
| .1575 | | 4.00 | | 20.00 | 4.00 | 64.00 | 15724 |
| .1969 | | 5.00 | | 20.00 | 5.00 | 64.00 | 15725 |
| .2165 | | 5.50 | | 20.00 | 5.50 | 64.00 | 15726 |
| .2362 | | 6.00 | | 25.00 | 6.00 | 64.00 | 15727 |
| .3150 | | 8.00 | | 32.00 | 8.00 | 76.00 | 15728 |
| .3937 | | 10.00 | | 32.00 | 10.00 | 76.00 | 15729 |
| .4724 | | 12.00 | | 32.00 | 12.00 | 76.00 | 15730 |
| .4921 | | 12.50 | | 32.00 | 12.50 | 76.00 | 15731 |
| .5118 | | 13.00 | | 32.00 | 13.00 | 76.00 | 15732 |

DRILLS



mm
METRIC

DRILLS

1566 Poly Drill

Graphite Composites Plastics

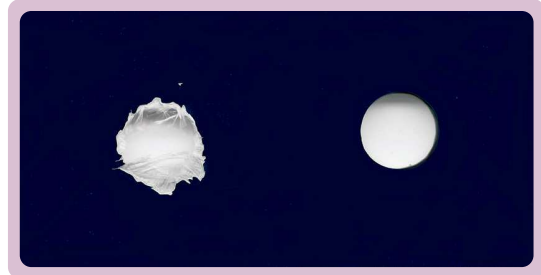


Basic Information:

- Advanced Performance
- 90° Point
- 3 Parabolic Flutes
 - Burr Teeth
 - Right Hand Spiral
 - Right Hand Cut
- Standard TiAlN Coating
- Inch and Metric Based Tools
- Dura Carb (Micrograin)

Tolerance:

- Shank Diameter: +.0000" -.0005"
 +0.000mm -0.013mm
- Cutter Diameter: +.0000" -.0005"
 +0.000mm -0.013mm



The Poly Drill is a patented tool that produces a clean burr-free hole with no breakout, thereby eliminating a secondary operation of sanding or deburring. The Poly Drill works well in fiber reinforced thermoplastics and composite materials commonly found in the automotive, aerospace, appliance, and recreation industries.

PATENT #5636948

ADVANCED PERFORMANCE



| Cutting Diameter | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|---------------------|------------|------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | | | | TiAlN |
| .2500 | 1/4 | 6.35 | 1.5000 | .2500 | 4.0000 | 15676 |
| .5000 | 1/2 | 12.70 | 1.5000 | .5000 | 6.0000 | 15678 |
| METRIC (Millimeter) | | | | | | |
| .1969 | | 5.00 | 32.00 | 5.00 | 100.00 | 15660 |
| .2362 | | 6.00 | 32.00 | 6.00 | 100.00 | 15662 |
| .2559 | | 6.50 | 38.00 | 6.50 | 105.00 | 15663 |
| .2756 | | 7.00 | 38.00 | 7.00 | 105.00 | 15664 |
| .2953 | | 7.50 | 38.00 | 7.50 | 110.00 | 15665 |
| .3150 | | 8.00 | 38.00 | 8.00 | 115.00 | 15666 |
| .3346 | | 8.50 | 38.00 | 8.50 | 120.00 | 15667 |
| .3543 | | 9.00 | 38.00 | 9.00 | 125.00 | 15668 |
| .3740 | | 9.50 | 38.00 | 9.50 | 125.00 | 15669 |
| .3937 | | 10.00 | 38.00 | 10.00 | 130.00 | 15670 |
| .4134 | | 10.50 | 38.00 | 10.50 | 137.00 | 15671 |
| .4331 | | 11.00 | 38.00 | 11.00 | 140.00 | 15672 |
| .4528 | | 11.50 | 38.00 | 11.50 | 143.00 | 15673 |
| .4724 | | 12.00 | 38.00 | 12.00 | 150.00 | 15674 |



Basic Information:

- 135° Notched Cam Point
- 2 Flutes
 - 30° Helix
 - Right Hand Spiral
 - Right Hand Cut
- Standard Uncoated, FC-7, and TiAlN Coating
- Inch and Metric Based Tools
- Dura Carb (Micrograin)

Tolerance:

- Shank Diameter: +.0000" -.0015"
 +0.000mm -0.038mm
- Cutter Diameter: +.0000" -.0005"
 +0.000mm -0.013mm

** Items are made to order and not planned as a normal stocked item. Contact us for current stock status or for lead time at time of order. If you have an * item that you need us to stock, please contact us and we will work with you.*

| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number | | |
|------------------------------------|------------|------------|-------------|--------------|----------------|----------------|------------|------|--------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC | FC-7 | TiAlN |
| SCREW MACHINE LENGTH (Inch) | | | | | | | | | |
| .0400 | | 1.02 | 60 | .3750 | .0400 | 1.5000 | 17802 | | 13201* |
| .0410 | | 1.04 | 59 | .3750 | .0410 | 1.5000 | 17803 | | 13202* |
| .0420 | | 1.07 | 58 | .3750 | .0420 | 1.5000 | 17804 | | 13203 |
| .0430 | | 1.09 | 57 | .3750 | .0430 | 1.5000 | 17805 | | 13204 |
| .0465 | | 1.18 | 56 | .3750 | .0465 | 1.5000 | 17806 | | 13205* |
| .0469 | 3/64 | 1.19 | | .3750 | .0469 | 1.5000 | 17807 | | 13206 |
| .0520 | | 1.32 | 55 | .3750 | .0520 | 1.5000 | 17808 | | 13207 |
| .0550 | | 1.40 | 54 | .3750 | .0550 | 1.5000 | 17809 | | 13208* |
| .0595 | | 1.51 | 53 | .3750 | .0595 | 1.5000 | 17811 | | 13210* |
| .0625 | 1/16 | 1.59 | | .3750 | .0625 | 1.5000 | 17812 | | 13211 |
| .0635 | | 1.61 | 52 | .3750 | .0635 | 1.5000 | 17813 | | 13212* |
| .0670 | | 1.70 | 51 | .3750 | .0670 | 1.5000 | 17814 | | 13213 |
| .0700 | | 1.78 | 50 | .3750 | .0700 | 1.5000 | 17815 | | 13214 |
| .0730 | | 1.85 | 49 | .3750 | .0730 | 1.5000 | 17816 | | 13215* |
| .0760 | | 1.93 | 48 | .3750 | .0760 | 1.5000 | 17817 | | 13216 |
| .0781 | 5/64 | 1.98 | | .3750 | .0781 | 1.5000 | 17818 | | 13217 |
| .0785 | | 1.99 | 47 | .3750 | .0785 | 1.5000 | 17819 | | 13218 |
| .0810 | | 2.06 | 46 | .3750 | .0810 | 1.5000 | 17821 | | 13220 |
| .0820 | | 2.08 | 45 | .3750 | .0820 | 1.5000 | 17822 | | 13221* |
| .0860 | | 2.18 | 44 | .5000 | .0860 | 2.0000 | 17823 | | 13222 |
| .0890 | | 2.26 | 43 | .5000 | .0890 | 2.0000 | 17824 | | 13223 |
| .0935 | | 2.37 | 42 | .5000 | .0935 | 2.0000 | 17825 | | 13224* |
| .0938 | 3/32 | 2.38 | | .5000 | .0938 | 2.0000 | 17826 | | 13225 |
| .0960 | | 2.44 | 41 | .5000 | .0960 | 2.0000 | 17827 | | 13226 |
| .0980 | | 2.49 | 40 | .6250 | .0980 | 2.0000 | 17828 | | 13227* |
| .0995 | | 2.53 | 39 | .6250 | .0995 | 2.0000 | 17830 | | 13229* |
| .1015 | | 2.58 | 38 | .6250 | .1015 | 2.0000 | 17831 | | 13230 |
| .1040 | | 2.64 | 37 | .6250 | .1040 | 2.0000 | 17832 | | 13231* |
| .1065 | | 2.71 | 36 | .6250 | .1065 | 2.0000 | 17833 | | 13232 |
| .1094 | 7/64 | 2.78 | | .6250 | .1094 | 2.0000 | 17834 | | 13233 |

DRILLS

135°

2

FLUTE

FC-7

COATING

TiAlN

COATING

mm

METRIC

* Non Stocked

DRILLS

1500

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number | | |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|--------|--------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC | FC-7 | TiAlN |
| .1100 | | 2.79 | 35 | .6250 | .1100 | 2.0000 | 17835 | | 13234* |
| .1110 | | 2.82 | 34 | .6250 | .1110 | 2.0000 | 17836 | | 13235* |
| .1130 | | 2.87 | 33 | .6250 | .1130 | 2.0000 | 17837 | | 13236 |
| .1160 | | 2.95 | 32 | .6250 | .1160 | 2.0000 | 17838 | | 13237* |
| .1200 | | 3.05 | 31 | .6250 | .1200 | 2.0000 | 17840 | | 13239 |
| .1250 | 1/8 | 3.18 | | .6250 | .1250 | 2.0000 | 17841 | | 13240 |
| .1285 | | 3.26 | 30 | .6250 | .1285 | 2.0000 | 17842 | 13241* | |
| .1360 | | 3.45 | 29 | .6250 | .1360 | 2.0000 | 17843 | 13242 | |
| .1405 | | 3.57 | 28 | .6250 | .1405 | 2.0000 | 17845 | 13244 | |
| .1406 | 9/64 | 3.57 | | .6250 | .1406 | 2.0000 | 17846 | 13245* | |
| .1440 | | 3.66 | 27 | .7500 | .1440 | 2.5000 | 17847 | 13255 | |
| .1470 | | 3.73 | 26 | .7500 | .1470 | 2.5000 | 17848 | 13256 | |
| .1495 | | 3.80 | 25 | .7500 | .1495 | 2.5000 | 17849 | 13257 | |
| .1520 | | 3.86 | 24 | .7500 | .1520 | 2.5000 | 17850 | 13258 | |
| .1540 | | 3.91 | 23 | .7500 | .1540 | 2.5000 | 17851 | 13259 | |
| .1562 | 5/32 | 3.97 | | .7500 | .1562 | 2.5000 | 17852 | 13260 | |
| .1570 | | 3.99 | 22 | .7500 | .1570 | 2.5000 | 17853 | 13261* | |
| .1590 | | 4.04 | 21 | .7500 | .1590 | 2.5000 | 17855 | 13263 | |
| .1610 | | 4.09 | 20 | .7500 | .1610 | 2.5000 | 17856 | 13264 | |
| .1660 | | 4.22 | 19 | .7500 | .1660 | 2.5000 | 17857 | 13265 | |
| .1695 | | 4.31 | 18 | .7500 | .1695 | 2.5000 | 17858 | 13266* | |
| .1719 | 11/64 | 4.37 | | .7500 | .1719 | 2.5000 | 17859 | 13267 | |
| .1730 | | 4.39 | 17 | .7500 | .1730 | 2.5000 | 17860 | 13268* | |
| .1770 | | 4.50 | 16 | .7500 | .1770 | 2.5000 | 17861 | 13269* | |
| .1800 | | 4.57 | 15 | .7500 | .1800 | 2.5000 | 17863 | 13271 | |
| .1820 | | 4.62 | 14 | .7500 | .1820 | 2.5000 | 17864 | 13272* | |
| .1850 | | 4.70 | 13 | .7500 | .1850 | 2.5000 | 17865 | 13273 | |
| .1875 | 3/16 | 4.76 | | .7500 | .1875 | 2.5000 | 17866 | 13274 | |
| .1890 | | 4.80 | 12 | .7500 | .1890 | 2.5000 | 17867 | 13275* | |
| .1910 | | 4.85 | 11 | .7500 | .1910 | 2.5000 | 17868 | 13276 | |
| .1935 | | 4.91 | 10 | .7500 | .1935 | 2.5000 | 17869 | 13277 | |
| .1960 | | 4.98 | 9 | .7500 | .1960 | 2.5000 | 17870 | 13278* | |
| .1990 | | 5.05 | 8 | .7500 | .1990 | 2.5000 | 17872 | 13280* | |
| .2010 | | 5.11 | 7 | .7500 | .2010 | 2.5000 | 17873 | 13281 | |
| .2031 | 13/64 | 5.16 | | .7500 | .2031 | 2.5000 | 17874 | 13282 | |
| .2040 | | 5.18 | 6 | 1.0000 | .2040 | 2.5000 | 17875 | 13283* | |
| .2055 | | 5.22 | 5 | 1.0000 | .2055 | 2.5000 | 17876 | 13284 | |
| .2090 | | 5.31 | 4 | 1.0000 | .2090 | 2.5000 | 17877 | 13285 | |
| .2130 | | 5.41 | 3 | 1.0000 | .2130 | 2.5000 | 17878 | 13286* | |
| .2188 | 7/32 | 5.56 | | 1.0000 | .2188 | 2.5000 | 17880 | 13288 | |
| .2210 | | 5.61 | 2 | 1.0000 | .2210 | 2.5000 | 17881 | 13289 | |
| .2280 | | 5.79 | 1 | 1.0000 | .2280 | 2.5000 | 17882 | 13290 | |
| .2340 | | 5.94 | A | 1.0000 | .2340 | 2.5000 | 17883 | 13291* | |
| .2344 | 15/64 | 5.95 | | 1.0000 | .2344 | 2.5000 | 17884 | 13292 | |
| .2380 | | 6.05 | B | 1.0000 | .2380 | 2.5000 | 17886 | 13294 | |
| .2420 | | 6.15 | C | 1.0000 | .2420 | 2.5000 | 17887 | 13295 | |
| .2460 | | 6.25 | D | 1.0000 | .2460 | 2.5000 | 17888 | 13296 | |
| .2500 | 1/4 | 6.35 | E | 1.0000 | .2500 | 2.5000 | 17889 | 13297 | |
| .2570 | | 6.53 | F | 1.0000 | .2570 | 2.5000 | 17891 | 13299 | |
| .2610 | | 6.63 | G | 1.0000 | .2610 | 2.5000 | 17892 | 13300 | |
| .2656 | 17/64 | 6.75 | | 1.0000 | .2656 | 2.5000 | 17893 | 13301 | |
| .2660 | | 6.76 | H | 1.0000 | .2660 | 2.5000 | 17894 | 13302* | |
| .2720 | | 6.91 | I | 1.0000 | .2720 | 2.5000 | 17895 | 13303 | |
| .2770 | | 7.04 | J | 1.0000 | .2770 | 2.5000 | 17897 | 13305 | |

* Non Stocked



Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number | | |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|--------|-------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC | FC-7 | TiAlN |
| .2810 | | 7.14 | K | 1.0000 | .2810 | 2.5000 | 17898 | 13306 | |
| .2812 | 9/32 | 7.14 | | 1.0000 | .2812 | 2.5000 | 17899 | 13307* | |
| .2900 | | 7.37 | L | 1.2500 | .2900 | 2.7500 | 17900 | 13308* | |
| .2950 | | 7.49 | M | 1.2500 | .2950 | 2.7500 | 17901 | 13309* | |
| .2969 | 19/64 | 7.54 | | 1.2500 | .2969 | 2.7500 | 17903 | 13311* | |
| .3020 | | 7.67 | N | 1.2500 | .3020 | 2.7500 | 17904 | 13312 | |
| .3125 | 5/16 | 7.94 | | 1.2500 | .3125 | 2.7500 | 17905 | 13313 | |
| .3160 | | 8.03 | O | 1.2500 | .3160 | 2.7500 | 17907 | 13315 | |
| .3230 | | 8.20 | P | 1.2500 | .3230 | 2.7500 | 17908 | 13316* | |
| .3281 | 21/64 | 8.33 | | 1.2500 | .3281 | 2.7500 | 17909 | 13317 | |
| .3320 | | 8.43 | Q | 1.2500 | .3320 | 3.0000 | 17910 | 13318* | |
| .3390 | | 8.61 | R | 1.2500 | .3390 | 3.0000 | 17912 | 13320 | |
| .3438 | 11/32 | 8.73 | | 1.2500 | .3438 | 3.0000 | 17913 | 13321 | |
| .3480 | | 8.84 | S | 1.2500 | .3480 | 3.0000 | 17914 | 13322 | |
| .3580 | | 9.09 | T | 1.2500 | .3580 | 3.0000 | 17917 | 13324 | |
| .3594 | 23/64 | 9.13 | | 1.2500 | .3594 | 3.0000 | 17918 | 13325 | |
| .3680 | | 9.35 | U | 1.2500 | .3680 | 3.0000 | 17919 | 13326* | |
| .3750 | 3/8 | 9.53 | | 1.2500 | .3750 | 3.0000 | 17921 | 13328 | |
| .3770 | | 9.58 | V | 1.2500 | .3770 | 3.0000 | 17922 | 13329 | |
| .3860 | | 9.80 | W | 1.2500 | .3860 | 3.0000 | 17923 | 13330 | |
| .3906 | 25/64 | 9.92 | | 1.2500 | .3906 | 3.0000 | 17924 | 13331 | |
| .3970 | | 10.08 | X | 1.2500 | .3970 | 3.0000 | 17926 | 13333 | |
| .4040 | | 10.26 | Y | 1.2500 | .4040 | 3.0000 | 17927 | 13334 | |
| .4062 | 13/32 | 10.32 | | 1.2500 | .4062 | 3.0000 | 17928 | 13335 | |
| .4130 | | 10.49 | Z | 1.2500 | .4130 | 3.0000 | 17929 | 13336* | |
| .4219 | 27/64 | 10.72 | | 1.2500 | .4219 | 3.0000 | 17931 | 13338 | |
| .4375 | 7/16 | 11.11 | | 1.2500 | .4375 | 3.0000 | 17933 | 13340 | |
| .4531 | 29/64 | 11.51 | | 1.2500 | .4531 | 3.0000 | 17935 | 13342* | |
| .4688 | 15/32 | 11.91 | | 1.2500 | .4688 | 3.0000 | 17936 | 13343 | |
| .4844 | 31/64 | 12.30 | | 1.2500 | .4844 | 3.0000 | 17938 | 13345 | |
| .5000 | 1/2 | 12.70 | | 1.2500 | .5000 | 3.0000 | 17940 | 13347 | |
| .5312 | 17/32 | 13.49 | | 1.2500 | .5312 | 3.5000 | 17941 | 13348 | |
| .5625 | 9/16 | 14.29 | | 1.2500 | .5625 | 3.5000 | 17942 | 13349 | |
| .5938 | 19/32 | 15.08 | | 1.5000 | .5938 | 3.5000 | 17943 | 13350* | |
| .6250 | 5/8 | 15.88 | | 1.5000 | .6250 | 3.5000 | 17944 | 13351* | |
| .6562 | 21/32 | 16.67 | | 1.5000 | .6562 | 3.5000 | 17945 | 13352 | |
| .6875 | 11/16 | 17.46 | | 1.5000 | .6875 | 4.0000 | 17946 | 13353* | |
| .7188 | 23/32 | 18.26 | | 1.5000 | .7188 | 4.0000 | 17947 | 13354* | |
| .7500 | 3/4 | 19.05 | | 1.5000 | .7500 | 4.0000 | 17948 | 13355 | |
| .8750 | 7/8 | 22.23 | | 1.5000 | .8750 | 4.0000 | 17949 | 13356* | |
| 1.0000 | 1 | 25.40 | | 1.5000 | 1.0000 | 4.0000 | 17950 | 13357 | |

STANDARD LENGTH (Inch)

| | | | | | | | | | |
|-------|------|------|----|-------|-------|--------|-------|--|--------|
| .0280 | | 0.71 | 70 | .3125 | .0280 | 1.2500 | 17601 | | 13000* |
| .0292 | | 0.74 | 69 | .3125 | .0292 | 1.2500 | 17602 | | 13001 |
| .0310 | | 0.79 | 68 | .3125 | .0310 | 1.2500 | 17603 | | 13002 |
| .0312 | 1/32 | 0.79 | | .3125 | .0312 | 1.2500 | 17604 | | 13003 |
| .0320 | | 0.81 | 67 | .3125 | .0320 | 1.2500 | 17605 | | 13004 |
| .0330 | | 0.84 | 66 | .3125 | .0330 | 1.2500 | 17606 | | 13005 |
| .0350 | | 0.89 | 65 | .6250 | .0350 | 1.5000 | 17607 | | 13006 |
| .0360 | | 0.91 | 64 | .6250 | .0360 | 1.5000 | 17608 | | 13007 |
| .0370 | | 0.94 | 63 | .6250 | .0370 | 1.5000 | 17609 | | 13008 |
| .0380 | | 0.97 | 62 | .6250 | .0380 | 1.5000 | 17610 | | 13009 |
| .0390 | | 0.99 | 61 | .6250 | .0390 | 1.5000 | 17611 | | 13010* |

DRILLS

135°

2 FLUTE

FC-7 COATING

TiAlN COATING

mm METRIC

* Non Stocked

DRILLS

1500

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number | | |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|--------|--------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC | FC-7 | TiAlN |
| .0400 | | 1.02 | 60 | .7500 | .0400 | 1.5000 | 17613 | | 13012 |
| .0410 | | 1.04 | 59 | .7500 | .0410 | 1.5000 | 17614 | | 13013 |
| .0420 | | 1.07 | 58 | .7500 | .0420 | 1.5000 | 17615 | | 13014 |
| .0430 | | 1.09 | 57 | .7500 | .0430 | 1.5000 | 17616 | | 13015* |
| .0465 | | 1.18 | 56 | .7500 | .0465 | 1.5000 | 17617 | | 13016 |
| .0469 | 3/64 | 1.19 | | .7500 | .0469 | 1.5000 | 17618 | | 13017* |
| .0520 | | 1.32 | 55 | .7500 | .0520 | 1.5000 | 17619 | | 13018 |
| .0550 | | 1.40 | 54 | .7500 | .0550 | 1.5000 | 17620 | | 13019 |
| .0595 | | 1.51 | 53 | .7500 | .0595 | 1.5000 | 17622 | | 13021 |
| .0625 | 1/16 | 1.59 | | .7500 | .0625 | 1.5000 | 17623 | | 13022 |
| .0635 | | 1.61 | 52 | .7500 | .0635 | 1.5000 | 17624 | | 13023 |
| .0670 | | 1.70 | 51 | .7500 | .0670 | 1.5000 | 17626 | | 13024 |
| .0700 | | 1.78 | 50 | .8750 | .0700 | 1.7500 | 17627 | | 13025 |
| .0730 | | 1.85 | 49 | .8750 | .0730 | 1.7500 | 17628 | | 13026 |
| .0760 | | 1.93 | 48 | .8750 | .0760 | 1.7500 | 17629 | | 13027 |
| .0781 | 5/64 | 1.98 | | .8750 | .0781 | 1.7500 | 17630 | | 13028 |
| .0785 | | 1.99 | 47 | .8750 | .0785 | 1.7500 | 17631 | | 13029* |
| .0810 | | 2.06 | 46 | .8750 | .0810 | 1.7500 | 17633 | | 13031* |
| .0820 | | 2.08 | 45 | .8750 | .0820 | 1.7500 | 17634 | | 13032* |
| .0860 | | 2.18 | 44 | 1.0000 | .0860 | 2.0000 | 17635 | | 13033* |
| .0890 | | 2.26 | 43 | 1.0000 | .0890 | 2.0000 | 17636 | | 13034 |
| .0935 | | 2.37 | 42 | 1.0000 | .0935 | 2.0000 | 17637 | | 13035 |
| .0938 | 3/32 | 2.38 | | 1.0000 | .0938 | 2.0000 | 17638 | | 13036 |
| .0960 | | 2.44 | 41 | 1.0000 | .0960 | 2.0000 | 17639 | | 13037 |
| .0980 | | 2.49 | 40 | 1.0000 | .0980 | 2.0000 | 17640 | | 13038 |
| .0995 | | 2.53 | 39 | 1.2500 | .0995 | 2.2500 | 17642 | | 13040 |
| .1015 | | 2.58 | 38 | 1.2500 | .1015 | 2.2500 | 17643 | | 13041 |
| .1040 | | 2.64 | 37 | 1.2500 | .1040 | 2.2500 | 17644 | | 13042 |
| .1065 | | 2.71 | 36 | 1.2500 | .1065 | 2.2500 | 17645 | | 13043 |
| .1094 | 7/64 | 2.78 | | 1.2500 | .1094 | 2.2500 | 17646 | | 13044 |
| .1100 | | 2.79 | 35 | 1.2500 | .1100 | 2.2500 | 17647 | | 13045 |
| .1110 | | 2.82 | 34 | 1.2500 | .1110 | 2.2500 | 17648 | | 13046* |
| .1130 | | 2.87 | 33 | 1.2500 | .1130 | 2.2500 | 17649 | | 13047 |
| .1160 | | 2.95 | 32 | 1.2500 | .1160 | 2.2500 | 17650 | | 13048 |
| .1200 | | 3.05 | 31 | 1.2500 | .1200 | 2.2500 | 17652 | | 13050 |
| .1250 | 1/8 | 3.18 | | 1.2500 | .1250 | 2.2500 | 17653 | | 13051 |
| .1285 | | 3.26 | 30 | 1.3750 | .1285 | 2.5000 | 17654 | 13052 | |
| .1360 | | 3.45 | 29 | 1.3750 | .1360 | 2.5000 | 17655 | 13053 | |
| .1405 | | 3.57 | 28 | 1.3750 | .1405 | 2.5000 | 17658 | 13055 | |
| .1406 | 9/64 | 3.57 | | 1.3750 | .1406 | 2.5000 | 17659 | 13056 | |
| .1440 | | 3.66 | 27 | 1.3750 | .1440 | 2.5000 | 17660 | 13057 | |
| .1470 | | 3.73 | 26 | 1.3750 | .1470 | 2.5000 | 17661 | 13058 | |
| .1495 | | 3.80 | 25 | 1.3750 | .1495 | 2.5000 | 17662 | 13059 | |
| .1520 | | 3.86 | 24 | 1.3750 | .1520 | 2.5000 | 17663 | 13060* | |
| .1540 | | 3.91 | 23 | 1.3750 | .1540 | 2.5000 | 17664 | 13061 | |
| .1562 | 5/32 | 3.97 | | 1.3750 | .1562 | 2.5000 | 17665 | 13062 | |
| .1570 | | 3.99 | 22 | 1.3750 | .1570 | 2.5000 | 17666 | 13063* | |
| .1590 | | 4.04 | 21 | 1.3750 | .1590 | 2.5000 | 17668 | 13065 | |
| .1610 | | 4.09 | 20 | 1.3750 | .1610 | 2.5000 | 17669 | 13066 | |
| .1660 | | 4.22 | 19 | 1.6250 | .1660 | 2.7500 | 17670 | 13067 | |
| .1695 | | 4.31 | 18 | 1.6250 | .1695 | 2.7500 | 17671 | 13068* | |
| .1719 | 11/64 | 4.37 | | 1.6250 | .1719 | 2.7500 | 17672 | 13069 | |
| .1730 | | 4.39 | 17 | 1.6250 | .1730 | 2.7500 | 17673 | 13070 | |
| .1770 | | 4.50 | 16 | 1.6250 | .1770 | 2.7500 | 17674 | 13071* | |

* Non Stocked



Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number | | |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|--------|-------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC | FC-7 | TiAlN |
| .1800 | | 4.57 | 15 | 1.6250 | .1800 | 2.7500 | 17676 | 13073 | |
| .1820 | | 4.62 | 14 | 1.6250 | .1820 | 2.7500 | 17677 | 13074 | |
| .1850 | | 4.70 | 13 | 1.6250 | .1850 | 2.7500 | 17678 | 13075* | |
| .1875 | 3/16 | 4.76 | | 1.6250 | .1875 | 2.7500 | 17679 | 13076 | |
| .1890 | | 4.80 | 12 | 1.6250 | .1890 | 2.7500 | 17680 | 13077* | |
| .1910 | | 4.85 | 11 | 1.6250 | .1910 | 2.7500 | 17681 | 13078 | |
| .1935 | | 4.91 | 10 | 1.6250 | .1935 | 2.7500 | 17682 | 13079 | |
| .1960 | | 4.98 | 9 | 1.7500 | .1960 | 3.0000 | 17683 | 13080* | |
| .1990 | | 5.05 | 8 | 1.7500 | .1990 | 3.0000 | 17685 | 13082 | |
| .2010 | | 5.11 | 7 | 1.7500 | .2010 | 3.0000 | 17686 | 13083 | |
| .2031 | 13/64 | 5.16 | | 1.7500 | .2031 | 3.0000 | 17687 | 13084 | |
| .2040 | | 5.18 | 6 | 1.7500 | .2040 | 3.0000 | 17688 | 13085* | |
| .2055 | | 5.22 | 5 | 1.7500 | .2055 | 3.0000 | 17689 | 13086 | |
| .2090 | | 5.31 | 4 | 1.7500 | .2090 | 3.0000 | 17690 | 13087 | |
| .2130 | | 5.41 | 3 | 1.7500 | .2130 | 3.0000 | 17691 | 13088 | |
| .2188 | 7/32 | 5.56 | | 1.7500 | .2188 | 3.0000 | 17693 | 13090 | |
| .2210 | | 5.61 | 2 | 1.7500 | .2210 | 3.0000 | 17694 | 13091* | |
| .2280 | | 5.79 | 1 | 1.7500 | .2280 | 3.0000 | 17695 | 13092 | |
| .2340 | | 5.94 | A | 2.0000 | .2340 | 3.2500 | 17696 | 13093* | |
| .2344 | 15/64 | 5.95 | | 2.0000 | .2344 | 3.2500 | 17697 | 13094 | |
| .2380 | | 6.05 | B | 2.0000 | .2380 | 3.2500 | 17699 | 13096 | |
| .2420 | | 6.15 | C | 2.0000 | .2420 | 3.2500 | 17700 | 13097* | |
| .2460 | | 6.25 | D | 2.0000 | .2460 | 3.2500 | 17701 | 13098* | |
| .2500 | 1/4 | 6.35 | E | 2.0000 | .2500 | 3.2500 | 17702 | 13099 | |
| .2570 | | 6.53 | F | 2.0000 | .2570 | 3.2500 | 17704 | 13101 | |
| .2610 | | 6.63 | G | 2.1250 | .2610 | 3.5000 | 17705 | 13102 | |
| .2656 | 17/64 | 6.75 | | 2.1250 | .2656 | 3.5000 | 17706 | 13103 | |
| .2660 | | 6.76 | H | 2.1250 | .2660 | 3.5000 | 17707 | 13104* | |
| .2720 | | 6.91 | I | 2.1250 | .2720 | 3.5000 | 17708 | 13105 | |
| .2770 | | 7.04 | J | 2.1250 | .2770 | 3.5000 | 17710 | 13107* | |
| .2810 | | 7.14 | K | 2.1250 | .2810 | 3.5000 | 17711 | 13108* | |
| .2812 | 9/32 | 7.14 | | 2.1250 | .2812 | 3.5000 | 17712 | 13109 | |
| .2900 | | 7.37 | L | 2.1250 | .2900 | 3.5000 | 17713 | 13110 | |
| .2950 | | 7.49 | M | 2.3750 | .2950 | 4.0000 | 17714 | 13111* | |
| .2969 | 19/64 | 7.54 | | 2.3750 | .2969 | 4.0000 | 17716 | 13113 | |
| .3020 | | 7.67 | N | 2.3750 | .3020 | 4.0000 | 17717 | 13114 | |
| .3125 | 5/16 | 7.94 | | 2.3750 | .3125 | 4.0000 | 17718 | 13115 | |
| .3160 | | 8.03 | O | 2.3750 | .3160 | 4.0000 | 17720 | 13117 | |
| .3230 | | 8.20 | P | 2.3750 | .3230 | 4.0000 | 17721 | 13118* | |
| .3281 | 21/64 | 8.33 | | 2.5000 | .3281 | 4.0000 | 17722 | 13119* | |
| .3320 | | 8.43 | Q | 2.5000 | .3320 | 4.0000 | 17723 | 13120* | |
| .3390 | | 8.61 | R | 2.5000 | .3390 | 4.0000 | 17725 | 13122 | |
| .3438 | 11/32 | 8.73 | | 2.5000 | .3438 | 4.0000 | 17726 | 13123 | |
| .3480 | | 8.84 | S | 2.5000 | .3480 | 4.0000 | 17727 | 13124* | |
| .3580 | | 9.09 | T | 2.7500 | .3580 | 4.2500 | 17729 | 13126* | |
| .3594 | 23/64 | 9.13 | | 2.7500 | .3594 | 4.2500 | 17730 | 13127 | |
| .3680 | | 9.35 | U | 2.7500 | .3680 | 4.2500 | 17731 | 13128* | |
| .3750 | 3/8 | 9.53 | | 2.7500 | .3750 | 4.2500 | 17733 | 13130 | |
| .3770 | | 9.58 | V | 2.7500 | .3770 | 4.2500 | 17734 | 13131 | |
| .3860 | | 9.80 | W | 2.8750 | .3860 | 4.5000 | 17735 | 13132 | |
| .3906 | 25/64 | 9.92 | | 2.8750 | .3906 | 4.5000 | 17736 | 13133 | |
| .3970 | | 10.08 | X | 2.8750 | .3970 | 4.5000 | 17738 | 13135* | |
| .4040 | | 10.26 | Y | 2.8750 | .4040 | 4.5000 | 17739 | 13136 | |
| .4062 | 13/32 | 10.32 | | 2.8750 | .4062 | 4.5000 | 17740 | 13137* | |

DRILLS

135°

2 FLUTE

FC-7 COATING

TiAlN COATING

mm METRIC

* Non Stocked

DRILLS

1500

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number | | |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|--------|-------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC | FC-7 | TiAlN |
| .4130 | | 10.49 | Z | 2.8750 | .4130 | 4.5000 | 17741 | 13138 | |
| .4219 | 27/64 | 10.72 | | 2.8750 | .4219 | 4.5000 | 17743 | 13140* | |
| .4375 | 7/16 | 11.11 | | 2.8750 | .4375 | 4.5000 | 17745 | 13142 | |
| .4531 | 29/64 | 11.51 | | 3.0000 | .4531 | 4.7500 | 17747 | 13144 | |
| .4688 | 15/32 | 11.91 | | 3.0000 | .4688 | 4.7500 | 17748 | 13145 | |
| .4844 | 31/64 | 12.30 | | 3.0000 | .4844 | 4.7500 | 17750 | 13147 | |
| .5000 | 1/2 | 12.70 | | 3.0000 | .5000 | 4.7500 | 17752 | 13149* | |
| .5312 | 17/32 | 13.49 | | 4.0000 | .5312 | 6.0000 | 17753 | 13150 | |
| .5625 | 9/16 | 14.29 | | 4.0000 | .5625 | 6.0000 | 17754 | 13151 | |
| .5938 | 19/32 | 15.08 | | 4.0000 | .5938 | 6.0000 | 17755 | 13152 | |
| .6250 | 5/8 | 15.88 | | 4.0000 | .6250 | 6.0000 | 17756 | 13153 | |
| .6562 | 21/32 | 16.67 | | 4.0000 | .6562 | 6.0000 | 17757 | 13154* | |
| .6875 | 11/16 | 17.46 | | 4.0000 | .6875 | 6.0000 | 17758 | 13155 | |
| .7188 | 23/32 | 18.26 | | 4.0000 | .7188 | 6.0000 | 17759 | 13156 | |
| .7500 | 3/4 | 19.05 | | 4.0000 | .7500 | 6.0000 | 17760 | 13157* | |
| .8750 | 7/8 | 22.23 | | 4.0000 | .8750 | 6.0000 | 17761 | 13158 | |
| 1.0000 | 1 | 25.40 | | 4.0000 | 1.0000 | 6.0000 | 17762 | 13159 | |

SCREW MACHINE LENGTH METRIC (Millimeter)

| | | | | | | | | | |
|-------|--|-------|--|-------|-------|-------|-------|--------|--------|
| .0394 | | 1.00 | | 9.50 | 1.00 | 38.00 | 17801 | | 13200* |
| .0591 | | 1.50 | | 9.50 | 1.50 | 38.00 | 17810 | | 13209* |
| .0787 | | 2.00 | | 9.50 | 2.00 | 38.00 | 17820 | | 13219 |
| .0984 | | 2.50 | | 16.00 | 2.50 | 51.00 | 17829 | | 13228 |
| .1181 | | 3.00 | | 16.00 | 3.00 | 51.00 | 17839 | | 13238 |
| .1299 | | 3.30 | | 16.00 | 3.30 | 51.00 | 17952 | | |
| .1339 | | 3.40 | | 16.00 | 3.40 | 51.00 | 17953 | | |
| .1378 | | 3.50 | | 16.00 | 3.50 | 51.00 | 17844 | 13243 | |
| .1575 | | 4.00 | | 19.00 | 4.00 | 63.00 | 17854 | 13262 | |
| .1772 | | 4.50 | | 19.00 | 4.50 | 63.00 | 17862 | 13270 | |
| .1969 | | 5.00 | | 19.00 | 5.00 | 63.00 | 17871 | 13279 | |
| .2165 | | 5.50 | | 25.00 | 5.50 | 63.00 | 17879 | 13287 | |
| .2362 | | 6.00 | | 25.00 | 6.00 | 63.00 | 17885 | 13293* | |
| .2559 | | 6.50 | | 25.00 | 6.50 | 63.00 | 17890 | 13298* | |
| .2756 | | 7.00 | | 25.00 | 7.00 | 63.00 | 17896 | 13304 | |
| .2953 | | 7.50 | | 32.00 | 7.50 | 70.00 | 17902 | 13310 | |
| .3150 | | 8.00 | | 32.00 | 8.00 | 70.00 | 17906 | 13314 | |
| .3346 | | 8.50 | | 32.00 | 8.50 | 76.00 | 17911 | 13319 | |
| .3543 | | 9.00 | | 32.00 | 9.00 | 76.00 | 17915 | 13323 | |
| .3740 | | 9.50 | | 32.00 | 9.50 | 76.00 | 17920 | 13327 | |
| .3937 | | 10.00 | | 32.00 | 10.00 | 76.00 | 17925 | 13332 | |
| .4134 | | 10.50 | | 32.00 | 10.50 | 76.00 | 17930 | 13337* | |
| .4331 | | 11.00 | | 32.00 | 11.00 | 76.00 | 17932 | 13339* | |
| .4528 | | 11.50 | | 32.00 | 11.50 | 76.00 | 17934 | 13341* | |
| .4724 | | 12.00 | | 32.00 | 12.00 | 76.00 | 17937 | 13344 | |
| .4921 | | 12.50 | | 32.00 | 12.50 | 76.00 | 17939 | 13346 | |
| .5118 | | 13.00 | | 32.00 | 13.00 | 89.00 | 17951 | 13358 | |

STANDARD LENGTH METRIC (Millimeter)

| | | | | | | | | | |
|-------|--|------|--|-------|------|-------|-------|--------|--------|
| .0394 | | 1.00 | | 16.00 | 1.00 | 38.00 | 17612 | | 13011 |
| .0591 | | 1.50 | | 19.00 | 1.50 | 38.00 | 17621 | | 13020* |
| .0787 | | 2.00 | | 22.00 | 2.00 | 44.00 | 17632 | | 13030* |
| .0984 | | 2.50 | | 25.00 | 2.50 | 51.00 | 17641 | | 13039 |
| .1181 | | 3.00 | | 32.00 | 3.00 | 57.00 | 17651 | | 13049 |
| .1378 | | 3.50 | | 35.00 | 3.50 | 63.00 | 17656 | 13054* | |



* Non Stocked

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Plastics Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number | | |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|--------|-------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC | FC-7 | TiAlN |
| .1575 | | 4.00 | | 35.00 | 4.00 | 63.00 | 17667 | 13064 | |
| .1772 | | 4.50 | | 41.00 | 4.50 | 70.00 | 17675 | 13072 | |
| .1969 | | 5.00 | | 44.00 | 5.00 | 76.00 | 17684 | 13081 | |
| .2165 | | 5.50 | | 44.00 | 5.50 | 76.00 | 17692 | 13089 | |
| .2362 | | 6.00 | | 51.00 | 6.00 | 83.00 | 17698 | 13095 | |
| .2559 | | 6.50 | | 51.00 | 6.50 | 83.00 | 17703 | 13100 | |
| .2756 | | 7.00 | | 54.00 | 7.00 | 89.00 | 17709 | 13106 | |
| .2953 | | 7.50 | | 60.00 | 7.50 | 102.00 | 17715 | 13112 | |
| .3150 | | 8.00 | | 60.00 | 8.00 | 102.00 | 17719 | 13116 | |
| .3346 | | 8.50 | | 63.00 | 8.50 | 102.00 | 17724 | 13121 | |
| .3543 | | 9.00 | | 70.00 | 9.00 | 108.00 | 17728 | 13125 | |
| .3740 | | 9.50 | | 70.00 | 9.50 | 108.00 | 17732 | 13129 | |
| .3937 | | 10.00 | | 73.00 | 10.00 | 114.00 | 17737 | 13134* | |
| .4134 | | 10.50 | | 73.00 | 10.50 | 114.00 | 17742 | 13139 | |
| .4331 | | 11.00 | | 73.00 | 11.00 | 114.00 | 17744 | 13141* | |
| .4528 | | 11.50 | | 76.00 | 11.50 | 121.00 | 17746 | 13143 | |
| .4724 | | 12.00 | | 76.00 | 12.00 | 121.00 | 17749 | 13146 | |
| .4921 | | 12.50 | | 76.00 | 12.50 | 121.00 | 17751 | 13148 | |

DRILLS



* Non Stocked

DRILLS

1510

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Wood General Purpose



Basic Information:

- 118° Four Facet Point
- 2 Flutes
 - 30° Helix
 - Right Hand Spiral
 - Right Hand Cut
- Standard Uncoated
- Inch and Metric Based Tools
- Dura Carb (Micrograin)

Tolerance:

- Shank Diameter: +.0000" -.0015"
 +0.000mm -0.038mm
- Cutter Diameter: +.0000" -.0005"
 +0.000mm -0.013mm

** Items are made to order and not planned as a normal stocked item. Contact us for current stock status or for lead time at time of order. If you have an * item that you need us to stock, please contact us and we will work with you.*

118°



mm

METRIC

* Non Stocked

| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| SCREW MACHINE LENGTH (Inch) | | | | | | | |
| .0400 | | 1.02 | 60 | .3750 | .0400 | 1.5000 | 16002 |
| .0410 | | 1.04 | 59 | .3750 | .0410 | 1.5000 | 16003 |
| .0420 | | 1.07 | 58 | .3750 | .0420 | 1.5000 | 16004 |
| .0430 | | 1.09 | 57 | .3750 | .0430 | 1.5000 | 16005 |
| .0465 | | 1.18 | 56 | .3750 | .0465 | 1.5000 | 16006 |
| .0469 | 3/64 | 1.19 | | .3750 | .0469 | 1.5000 | 16007 |
| .0520 | | 1.32 | 55 | .3750 | .0520 | 1.5000 | 16008 |
| .0550 | | 1.40 | 54 | .3750 | .0550 | 1.5000 | 16009 |
| .0595 | | 1.51 | 53 | .3750 | .0595 | 1.5000 | 16011 |
| .0625 | 1/16 | 1.59 | | .3750 | .0625 | 1.5000 | 16012 |
| .0635 | | 1.61 | 52 | .3750 | .0635 | 1.5000 | 16013 |
| .0670 | | 1.70 | 51 | .3750 | .0670 | 1.5000 | 16014 |
| .0700 | | 1.78 | 50 | .3750 | .0700 | 1.5000 | 16015 |
| .0730 | | 1.85 | 49 | .3750 | .0730 | 1.5000 | 16016 |
| .0760 | | 1.93 | 48 | .3750 | .0760 | 1.5000 | 16017 |
| .0781 | 5/64 | 1.98 | | .3750 | .0781 | 1.5000 | 16018 |
| .0785 | | 1.99 | 47 | .3750 | .0785 | 1.5000 | 16019 |
| .0810 | | 2.06 | 46 | .3750 | .0810 | 1.5000 | 16021 |
| .0820 | | 2.08 | 45 | .3750 | .0820 | 1.5000 | 16022 |
| .0860 | | 2.18 | 44 | .5000 | .0860 | 2.0000 | 16023 |
| .0890 | | 2.26 | 43 | .5000 | .0890 | 2.0000 | 16024 |
| .0935 | | 2.37 | 42 | .5000 | .0935 | 2.0000 | 16025 |
| .0938 | 3/32 | 2.38 | | .5000 | .0938 | 2.0000 | 16026 |
| .0960 | | 2.44 | 41 | .5000 | .0960 | 2.0000 | 16027 |
| .0980 | | 2.49 | 40 | .6250 | .0980 | 2.0000 | 16028 |
| .0995 | | 2.53 | 39 | .6250 | .0995 | 2.0000 | 16030 |
| .1015 | | 2.58 | 38 | .6250 | .1015 | 2.0000 | 16031 |
| .1040 | | 2.64 | 37 | .6250 | .1040 | 2.0000 | 16032 |
| .1065 | | 2.71 | 36 | .6250 | .1065 | 2.0000 | 15276 |
| .1094 | 7/64 | 2.78 | | .6250 | .1094 | 2.0000 | 16033 |
| .1100 | | 2.79 | 35 | .6250 | .1100 | 2.0000 | 16034 |

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| .1110 | | 2.82 | 34 | .6250 | .1110 | 2.0000 | 16035 |
| .1130 | | 2.87 | 33 | .6250 | .1130 | 2.0000 | 15277 |
| .1160 | | 2.95 | 32 | .6250 | .1160 | 2.0000 | 16036 |
| .1200 | | 3.05 | 31 | .6250 | .1200 | 2.0000 | 16038 |
| .1250 | 1/8 | 3.18 | | .6250 | .1250 | 2.0000 | 15201 |
| .1285 | | 3.26 | 30 | .6250 | .1285 | 2.0000 | 16039 |
| .1360 | | 3.45 | 29 | .6250 | .1360 | 2.0000 | 15278 |
| .1405 | | 3.57 | 28 | .6250 | .1405 | 2.0000 | 16041 |
| .1406 | 9/64 | 3.57 | | .6250 | .1406 | 2.0000 | 15202 |
| .1440 | | 3.66 | 27 | .7500 | .1440 | 2.5000 | 16042 |
| .1470 | | 3.73 | 26 | .7500 | .1470 | 2.5000 | 16043 |
| .1495 | | 3.80 | 25 | .7500 | .1495 | 2.5000 | 15279 |
| .1520 | | 3.86 | 24 | .7500 | .1520 | 2.5000 | 16044 |
| .1540 | | 3.91 | 23 | .7500 | .1540 | 2.5000 | 16045 |
| .1562 | 5/32 | 3.97 | | .7500 | .1562 | 2.5000 | 15203 |
| .1570 | | 3.99 | 22 | .7500 | .1570 | 2.5000 | 15280 |
| .1590 | | 4.04 | 21 | .7500 | .1590 | 2.5000 | 16047 |
| .1610 | | 4.09 | 20 | .7500 | .1610 | 2.5000 | 16048 |
| .1660 | | 4.22 | 19 | .7500 | .1660 | 2.5000 | 16049 |
| .1695 | | 4.31 | 18 | .7500 | .1695 | 2.5000 | 16050 |
| .1719 | 11/64 | 4.37 | | .7500 | .1719 | 2.5000 | 15204 |
| .1730 | | 4.39 | 17 | .7500 | .1730 | 2.5000 | 16051 |
| .1770 | | 4.50 | 16 | .7500 | .1770 | 2.5000 | 16052 |
| .1800 | | 4.57 | 15 | .7500 | .1800 | 2.5000 | 16054 |
| .1820 | | 4.62 | 14 | .7500 | .1820 | 2.5000 | 16055 |
| .1850 | | 4.70 | 13 | .7500 | .1850 | 2.5000 | 16056 |
| .1875 | 3/16 | 4.76 | | .7500 | .1875 | 2.5000 | 15205 |
| .1890 | | 4.80 | 12 | .7500 | .1890 | 2.5000 | 16057 |
| .1910 | | 4.85 | 11 | .7500 | .1910 | 2.5000 | 16058 |
| .1935 | | 4.91 | 10 | .7500 | .1935 | 2.5000 | 16059 |
| .1960 | | 4.98 | 9 | .7500 | .1960 | 2.5000 | 16060 |
| .1990 | | 5.05 | 8 | .7500 | .1990 | 2.5000 | 16062 |
| .2010 | | 5.11 | 7 | .7500 | .2010 | 2.5000 | 16063 |
| .2031 | 13/64 | 5.16 | | .7500 | .2031 | 2.5000 | 15206 |
| .2040 | | 5.18 | 6 | 1.0000 | .2040 | 2.5000 | 16064 |
| .2055 | | 5.22 | 5 | 1.0000 | .2055 | 2.5000 | 16065 |
| .2090 | | 5.31 | 4 | 1.0000 | .2090 | 2.5000 | 16066 |
| .2130 | | 5.41 | 3 | 1.0000 | .2130 | 2.5000 | 15281 |
| .2188 | 7/32 | 5.56 | | 1.0000 | .2188 | 2.5000 | 15207 |
| .2210 | | 5.61 | 2 | 1.0000 | .2210 | 2.5000 | 16068 |
| .2280 | | 5.79 | 1 | 1.0000 | .2280 | 2.5000 | 16069 |
| .2340 | | 5.94 | A | 1.0000 | .2340 | 2.5000 | 16070 |
| .2344 | 15/64 | 5.95 | | 1.0000 | .2344 | 2.5000 | 15208 |
| .2380 | | 6.05 | B | 1.0000 | .2380 | 2.5000 | 16072 |
| .2420 | | 6.15 | C | 1.0000 | .2420 | 2.5000 | 16073 |
| .2460 | | 6.25 | D | 1.0000 | .2460 | 2.5000 | 16074 |
| .2500 | 1/4 | 6.35 | E | 1.0000 | .2500 | 2.5000 | 15209 |
| .2570 | | 6.53 | F | 1.0000 | .2570 | 2.5000 | 15282 |
| .2610 | | 6.63 | G | 1.0000 | .2610 | 2.5000 | 16076 |
| .2656 | 17/64 | 6.75 | | 1.0000 | .2656 | 2.5000 | 15210 |
| .2660 | | 6.76 | H | 1.0000 | .2660 | 2.5000 | 16078 |
| .2720 | | 6.91 | I | 1.0000 | .2720 | 2.5000 | 15283 |
| .2770 | | 7.04 | J | 1.0000 | .2770 | 2.5000 | 16080 |
| .2810 | | 7.14 | K | 1.0000 | .2810 | 2.5000 | 16081 |

DRILLS

118°

mm

METRIC

* Non Stocked

DRILLS

118°

FLUTE

mm

METRIC

* Non Stocked

1510

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| .2812 | 9/32 | 7.14 | | 1.0000 | .2812 | 2.5000 | 15211 |
| .2900 | | 7.37 | L | 1.2500 | .2900 | 2.7500 | 16082 |
| .2950 | | 7.49 | M | 1.2500 | .2950 | 2.7500 | 16083 |
| .2969 | 19/64 | 7.54 | | 1.2500 | .2969 | 2.7500 | 15212 |
| .3020 | | 7.67 | N | 1.2500 | .3020 | 2.7500 | 16085 |
| .3125 | 5/16 | 7.94 | | 1.2500 | .3125 | 2.7500 | 15213 |
| .3160 | | 8.03 | O | 1.2500 | .3160 | 2.7500 | 16087 |
| .3230 | | 8.20 | P | 1.2500 | .3230 | 2.7500 | 16088 |
| .3281 | 21/64 | 8.33 | | 1.2500 | .3281 | 2.7500 | 15214 |
| .3320 | | 8.43 | Q | 1.2500 | .3320 | 3.0000 | 16089 |
| .3390 | | 8.61 | R | 1.2500 | .3390 | 3.0000 | 16091 |
| .3438 | 11/32 | 8.73 | | 1.2500 | .3438 | 3.0000 | 15215 |
| .3480 | | 8.84 | S | 1.2500 | .3480 | 3.0000 | 16092 |
| .3580 | | 9.09 | T | 1.2500 | .3580 | 3.0000 | 16094 |
| .3594 | 23/64 | 9.13 | | 1.2500 | .3594 | 3.0000 | 15216 |
| .3680 | | 9.35 | U | 1.2500 | .3680 | 3.0000 | 16095 |
| .3750 | 3/8 | 9.53 | | 1.2500 | .3750 | 3.0000 | 15217 |
| .3770 | | 9.58 | V | 1.2500 | .3770 | 3.0000 | 16097 |
| .3860 | | 9.80 | W | 1.2500 | .3860 | 3.0000 | 16098 |
| .3906 | 25/64 | 9.92 | | 1.2500 | .3906 | 3.0000 | 15218 |
| .3970 | | 10.08 | X | 1.2500 | .3970 | 3.0000 | 16100 |
| .4040 | | 10.26 | Y | 1.2500 | .4040 | 3.0000 | 16101 |
| .4062 | 13/32 | 10.32 | | 1.2500 | .4062 | 3.0000 | 15219 |
| .4130 | | 10.49 | Z | 1.2500 | .4130 | 3.0000 | 16102 |
| .4219 | 27/64 | 10.72 | | 1.2500 | .4219 | 3.0000 | 15220 |
| .4375 | 7/16 | 11.11 | | 1.2500 | .4375 | 3.0000 | 15221 |
| .4531 | 29/64 | 11.51 | | 1.2500 | .4531 | 3.0000 | 15222 |
| .4688 | 15/32 | 11.91 | | 1.2500 | .4688 | 3.0000 | 15223 |
| .4844 | 31/64 | 12.30 | | 1.2500 | .4844 | 3.0000 | 15224 |
| .5000 | 1/2 | 12.70 | | 1.2500 | .5000 | 3.0000 | 15225 |
| .5312 | 17/32 | 13.49 | | 1.2500 | .5312 | 3.5000 | 16108 |
| .5625 | 9/16 | 14.29 | | 1.5000 | .5625 | 3.5000 | 15256 |
| .5938 | 19/32 | 15.08 | | 1.5000 | .5938 | 3.5000 | 16109 |
| .6250 | 5/8 | 15.88 | | 1.5000 | .6250 | 3.5000 | 15262 |
| .6562 | 21/32 | 16.67 | | 1.5000 | .6562 | 3.5000 | 16110 |
| .6875 | 11/16 | 17.46 | | 1.5000 | .6875 | 4.0000 | 16111 |
| .7188 | 23/32 | 18.26 | | 1.5000 | .7188 | 4.0000 | 16112 |
| .7500 | 3/4 | 19.05 | | 1.5000 | .7500 | 4.0000 | 15275 |
| .8750 | 7/8 | 22.23 | | 1.5000 | .8750 | 4.0000 | 16113 |
| 1.0000 | 1 | 25.40 | | 1.5000 | 1.0000 | 4.0000 | 16114 |
| STANDARD LENGTH (Inch) | | | | | | | |
| .0280 | | 0.71 | 70 | .3125 | .0280 | 1.2500 | 15012 |
| .0292 | | 0.74 | 69 | .3125 | .0292 | 1.2500 | 15013 |
| .0310 | | 0.79 | 68 | .3125 | .0310 | 1.2500 | 15014 |
| .0312 | 1/32 | 0.79 | | .3125 | .0312 | 1.2500 | 15015 |
| .0320 | | 0.81 | 67 | .3125 | .0320 | 1.2500 | 15016 |
| .0330 | | 0.84 | 66 | .3125 | .0330 | 1.2500 | 15017 |
| .0350 | | 0.89 | 65 | .6250 | .0350 | 1.5000 | 15018 |
| .0360 | | 0.91 | 64 | .6250 | .0360 | 1.5000 | 15019 |
| .0370 | | 0.94 | 63 | .6250 | .0370 | 1.5000 | 15020 |
| .0380 | | 0.97 | 62 | .6250 | .0380 | 1.5000 | 15021 |
| .0390 | | 0.99 | 61 | .6250 | .0390 | 1.5000 | 15022 |
| .0400 | | 1.02 | 60 | .7500 | .0400 | 1.5000 | 15024 |

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| .0410 | | 1.04 | 59 | .7500 | .0410 | 1.5000 | 15025 |
| .0420 | | 1.07 | 58 | .7500 | .0420 | 1.5000 | 15026 |
| .0430 | | 1.09 | 57 | .7500 | .0430 | 1.5000 | 15027 |
| .0465 | | 1.18 | 56 | .7500 | .0465 | 1.5000 | 15028 |
| .0469 | 3/64 | 1.19 | | .7500 | .0469 | 1.5000 | 15029 |
| .0520 | | 1.32 | 55 | .7500 | .0520 | 1.5000 | 15030 |
| .0550 | | 1.40 | 54 | .7500 | .0550 | 1.5000 | 15031 |
| .0595 | | 1.51 | 53 | .7500 | .0595 | 1.5000 | 15033 |
| .0625 | 1/16 | 1.59 | | .7500 | .0625 | 1.5000 | 15034 |
| .0635 | | 1.61 | 52 | .7500 | .0635 | 1.5000 | 15035 |
| .0670 | | 1.70 | 51 | .7500 | .0670 | 1.5000 | 15036 |
| .0700 | | 1.78 | 50 | .8750 | .0700 | 1.7500 | 15037 |
| .0730 | | 1.85 | 49 | .8750 | .0730 | 1.7500 | 15038 |
| .0760 | | 1.93 | 48 | .8750 | .0760 | 1.7500 | 15039 |
| .0781 | 5/64 | 1.98 | | .8750 | .0781 | 1.7500 | 15040 |
| .0785 | | 1.99 | 47 | .8750 | .0785 | 1.7500 | 15041 |
| .0810 | | 2.06 | 46 | .8750 | .0810 | 1.7500 | 15043 |
| .0820 | | 2.08 | 45 | .8750 | .0820 | 1.7500 | 15044 |
| .0860 | | 2.18 | 44 | 1.0000 | .0860 | 2.0000 | 15045 |
| .0890 | | 2.26 | 43 | 1.0000 | .0890 | 2.0000 | 15046 |
| .0935 | | 2.37 | 42 | 1.0000 | .0935 | 2.0000 | 15047 |
| .0938 | 3/32 | 2.38 | | 1.0000 | .0938 | 2.0000 | 15048 |
| .0960 | | 2.44 | 41 | 1.0000 | .0960 | 2.0000 | 15049 |
| .0980 | | 2.49 | 40 | 1.0000 | .0980 | 2.0000 | 15050 |
| .0995 | | 2.53 | 39 | 1.2500 | .0995 | 2.2500 | 15052 |
| .1015 | | 2.58 | 38 | 1.2500 | .1015 | 2.2500 | 15053 |
| .1040 | | 2.64 | 37 | 1.2500 | .1040 | 2.2500 | 15054 |
| .1065 | | 2.71 | 36 | 1.2500 | .1065 | 2.2500 | 15055 |
| .1094 | 7/64 | 2.78 | | 1.2500 | .1094 | 2.2500 | 15056 |
| .1100 | | 2.79 | 35 | 1.2500 | .1100 | 2.2500 | 15057 |
| .1110 | | 2.82 | 34 | 1.2500 | .1110 | 2.2500 | 15058 |
| .1130 | | 2.87 | 33 | 1.2500 | .1130 | 2.2500 | 15059 |
| .1160 | | 2.95 | 32 | 1.2500 | .1160 | 2.2500 | 15060 |
| .1200 | | 3.05 | 31 | 1.2500 | .1200 | 2.2500 | 15062 |
| .1250 | 1/8 | 3.18 | | 1.2500 | .1250 | 2.2500 | 15063 |
| .1285 | | 3.26 | 30 | 1.3750 | .1285 | 2.5000 | 15064 |
| .1360 | | 3.45 | 29 | 1.3750 | .1360 | 2.5000 | 15065 |
| .1405 | | 3.57 | 28 | 1.3750 | .1405 | 2.5000 | 15067 |
| .1406 | 9/64 | 3.57 | | 1.3750 | .1406 | 2.5000 | 15068 |
| .1440 | | 3.66 | 27 | 1.3750 | .1440 | 2.5000 | 15069 |
| .1470 | | 3.73 | 26 | 1.3750 | .1470 | 2.5000 | 15070 |
| .1495 | | 3.80 | 25 | 1.3750 | .1495 | 2.5000 | 15071 |
| .1520 | | 3.86 | 24 | 1.3750 | .1520 | 2.5000 | 15072 |
| .1540 | | 3.91 | 23 | 1.3750 | .1540 | 2.5000 | 15073 |
| .1562 | 5/32 | 3.97 | | 1.3750 | .1562 | 2.5000 | 15074 |
| .1570 | | 3.99 | 22 | 1.3750 | .1570 | 2.5000 | 15075 |
| .1590 | | 4.04 | 21 | 1.3750 | .1590 | 2.5000 | 15077 |
| .1610 | | 4.09 | 20 | 1.3750 | .1610 | 2.5000 | 15078 |
| .1660 | | 4.22 | 19 | 1.6250 | .1660 | 2.7500 | 15079 |
| .1695 | | 4.31 | 18 | 1.6250 | .1695 | 2.7500 | 15080 |
| .1719 | 11/64 | 4.37 | | 1.6250 | .1719 | 2.7500 | 15081 |
| .1730 | | 4.39 | 17 | 1.6250 | .1730 | 2.7500 | 15082 |
| .1770 | | 4.50 | 16 | 1.6250 | .1770 | 2.7500 | 15083 |
| .1800 | | 4.57 | 15 | 1.6250 | .1800 | 2.7500 | 15085 |

DRILLS

118°

mm

METRIC

* Non Stocked

DRILLS

118°

FLUTE

mm

METRIC

* Non Stocked

1510

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| .1820 | | 4.62 | 14 | 1.6250 | .1820 | 2.7500 | 15086 |
| .1850 | | 4.70 | 13 | 1.6250 | .1850 | 2.7500 | 15087 |
| .1875 | 3/16 | 4.76 | | 1.6250 | .1875 | 2.7500 | 15088 |
| .1890 | | 4.80 | 12 | 1.6250 | .1890 | 2.7500 | 15089 |
| .1910 | | 4.85 | 11 | 1.6250 | .1910 | 2.7500 | 15090 |
| .1935 | | 4.91 | 10 | 1.6250 | .1935 | 2.7500 | 15091 |
| .1960 | | 4.98 | 9 | 1.7500 | .1960 | 3.0000 | 15092 |
| .1990 | | 5.05 | 8 | 1.7500 | .1990 | 3.0000 | 15094 |
| .2010 | | 5.11 | 7 | 1.7500 | .2010 | 3.0000 | 15095 |
| .2031 | 13/64 | 5.16 | | 1.7500 | .2031 | 3.0000 | 15096 |
| .2040 | | 5.18 | 6 | 1.7500 | .2040 | 3.0000 | 15097 |
| .2055 | | 5.22 | 5 | 1.7500 | .2055 | 3.0000 | 15098 |
| .2090 | | 5.31 | 4 | 1.7500 | .2090 | 3.0000 | 15099 |
| .2130 | | 5.41 | 3 | 1.7500 | .2130 | 3.0000 | 15100 |
| .2188 | 7/32 | 5.56 | | 1.7500 | .2188 | 3.0000 | 15102 |
| .2210 | | 5.61 | 2 | 1.7500 | .2210 | 3.0000 | 15103 |
| .2280 | | 5.79 | 1 | 1.7500 | .2280 | 3.0000 | 15104 |
| .2340 | | 5.94 | A | 2.0000 | .2340 | 3.2500 | 15105 |
| .2344 | 15/64 | 5.95 | | 2.0000 | .2344 | 3.2500 | 15106 |
| .2380 | | 6.05 | B | 2.0000 | .2380 | 3.2500 | 15108 |
| .2420 | | 6.15 | C | 2.0000 | .2420 | 3.2500 | 15109 |
| .2460 | | 6.25 | D | 2.0000 | .2460 | 3.2500 | 15110 |
| .2500 | 1/4 | 6.35 | E | 2.0000 | .2500 | 3.2500 | 15112 |
| .2570 | | 6.53 | F | 2.0000 | .2570 | 3.2500 | 15114 |
| .2610 | | 6.63 | G | 2.1250 | .2610 | 3.5000 | 15115 |
| .2656 | 17/64 | 6.75 | | 2.1250 | .2656 | 3.5000 | 15116 |
| .2660 | | 6.76 | H | 2.1250 | .2660 | 3.5000 | 15117 |
| .2720 | | 6.91 | I | 2.1250 | .2720 | 3.5000 | 15118 |
| .2770 | | 7.04 | J | 2.1250 | .2770 | 3.5000 | 15120 |
| .2810 | | 7.14 | K | 2.1250 | .2810 | 3.5000 | 15121 |
| .2812 | 9/32 | 7.14 | | 2.1250 | .2812 | 3.5000 | 15122 |
| .2900 | | 7.37 | L | 2.1250 | .2900 | 3.5000 | 15123 |
| .2950 | | 7.49 | M | 2.3750 | .2950 | 4.0000 | 15124 |
| .2969 | 19/64 | 7.54 | | 2.3750 | .2969 | 4.0000 | 15126 |
| .3020 | | 7.67 | N | 2.3750 | .3020 | 4.0000 | 15127 |
| .3125 | 5/16 | 7.94 | | 2.3750 | .3125 | 4.0000 | 15128 |
| .3160 | | 8.03 | O | 2.3750 | .3160 | 4.0000 | 15130 |
| .3230 | | 8.20 | P | 2.3750 | .3230 | 4.0000 | 15131 |
| .3281 | 21/64 | 8.33 | | 2.5000 | .3281 | 4.0000 | 15132 |
| .3320 | | 8.43 | Q | 2.5000 | .3320 | 4.0000 | 15133 |
| .3390 | | 8.61 | R | 2.5000 | .3390 | 4.0000 | 15135 |
| .3438 | 11/32 | 8.73 | | 2.5000 | .3438 | 4.0000 | 15136 |
| .3480 | | 8.84 | S | 2.5000 | .3480 | 4.0000 | 15137 |
| .3580 | | 9.09 | T | 2.7500 | .3580 | 4.2500 | 15139 |
| .3594 | 23/64 | 9.13 | | 2.7500 | .3594 | 4.2500 | 15140 |
| .3680 | | 9.35 | U | 2.7500 | .3680 | 4.2500 | 15141 |
| .3750 | 3/8 | 9.53 | | 2.7500 | .3750 | 4.2500 | 15143 |
| .3770 | | 9.58 | V | 2.7500 | .3770 | 4.2500 | 15144 |
| .3860 | | 9.80 | W | 2.8750 | .3860 | 4.5000 | 15145 |
| .3906 | 25/64 | 9.92 | | 2.8750 | .3906 | 4.5000 | 15146 |
| .3970 | | 10.08 | X | 2.8750 | .3970 | 4.5000 | 15148 |
| .4040 | | 10.26 | Y | 2.8750 | .4040 | 4.5000 | 15149 |
| .4062 | 13/32 | 10.32 | | 2.8750 | .4062 | 4.5000 | 15150 |
| .4130 | | 10.49 | Z | 2.8750 | .4130 | 4.5000 | 15170 |

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Wood General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| .4219 | 27/64 | 10.72 | | 2.8750 | .4219 | 4.5000 | 15152 |
| .4375 | 7/16 | 11.11 | | 2.8750 | .4375 | 4.5000 | 15154 |
| .4531 | 29/64 | 11.51 | | 3.0000 | .4531 | 4.7500 | 15156 |
| .4688 | 15/32 | 11.91 | | 3.0000 | .4688 | 4.7500 | 15157 |
| .4844 | 31/64 | 12.30 | | 3.0000 | .4844 | 4.7500 | 15159 |
| .5000 | 1/2 | 12.70 | | 3.0000 | .5000 | 4.7500 | 15161 |
| .5312 | 17/32 | 13.49 | | 4.0000 | .5312 | 6.0000 | 15162 |
| .5625 | 9/16 | 14.29 | | 4.0000 | .5625 | 6.0000 | 15163 |
| .5938 | 19/32 | 15.08 | | 4.0000 | .5938 | 6.0000 | 15164 |
| .6250 | 5/8 | 15.88 | | 4.0000 | .6250 | 6.0000 | 15165 |
| .6562 | 21/32 | 16.67 | | 4.0000 | .6562 | 6.0000 | 15166 |
| .6875 | 11/16 | 17.46 | | 4.0000 | .6875 | 6.0000 | 15167 |
| .7188 | 23/32 | 18.26 | | 4.0000 | .7188 | 6.0000 | 15171 |
| .7500 | 3/4 | 19.05 | | 4.0000 | .7500 | 6.0000 | 15168 |
| .8750 | 7/8 | 22.23 | | 4.0000 | .8750 | 6.0000 | 15169 |
| 1.0000 | 1 | 25.40 | | 4.0000 | 1.0000 | 6.0000 | 15174 |

| SCREW MACHINE LENGTH METRIC (Millimeter) | | | | | | | |
|--|--|-------|--|-------|-------|-------|--------|
| .0394 | | 1.00 | | 9.50 | 1.00 | 38.00 | 16001 |
| .0591 | | 1.50 | | 9.50 | 1.50 | 38.00 | 16010 |
| .0787 | | 2.00 | | 9.50 | 2.00 | 38.00 | 16020 |
| .0984 | | 2.50 | | 16.00 | 2.50 | 51.00 | 16029 |
| .1181 | | 3.00 | | 16.00 | 3.00 | 51.00 | 16037 |
| .1378 | | 3.50 | | 16.00 | 3.50 | 51.00 | 16040 |
| .1575 | | 4.00 | | 19.00 | 4.00 | 63.00 | 16046 |
| .1772 | | 4.50 | | 19.00 | 4.50 | 63.00 | 16053 |
| .1969 | | 5.00 | | 19.00 | 5.00 | 63.00 | 16061 |
| .2165 | | 5.50 | | 25.00 | 5.50 | 63.00 | 16067 |
| .2362 | | 6.00 | | 25.00 | 6.00 | 63.00 | 16071 |
| .2559 | | 6.50 | | 25.00 | 6.50 | 63.00 | 16075 |
| .2756 | | 7.00 | | 25.00 | 7.00 | 63.00 | 16079 |
| .2953 | | 7.50 | | 32.00 | 7.50 | 70.00 | 16084 |
| .3150 | | 8.00 | | 32.00 | 8.00 | 70.00 | 16086 |
| .3346 | | 8.50 | | 32.00 | 8.50 | 76.00 | 16090 |
| .3543 | | 9.00 | | 32.00 | 9.00 | 76.00 | 16093 |
| .3740 | | 9.50 | | 32.00 | 9.50 | 76.00 | 16096* |
| .3937 | | 10.00 | | 32.00 | 10.00 | 76.00 | 16099 |
| .4134 | | 10.50 | | 32.00 | 10.50 | 76.00 | 16103 |
| .4331 | | 11.00 | | 32.00 | 11.00 | 76.00 | 16104 |
| .4528 | | 11.50 | | 32.00 | 11.50 | 76.00 | 16105 |
| .4724 | | 12.00 | | 32.00 | 12.00 | 76.00 | 16106 |
| .4921 | | 12.50 | | 32.00 | 12.50 | 76.00 | 16107 |

| STANDARD LENGTH METRIC (Millimeter) | | | | | | | |
|-------------------------------------|--|------|--|-------|------|-------|-------|
| .0394 | | 1.00 | | 16.00 | 1.00 | 38.00 | 15023 |
| .0591 | | 1.50 | | 19.00 | 1.50 | 38.00 | 15032 |
| .0787 | | 2.00 | | 22.00 | 2.00 | 44.00 | 15042 |
| .0906 | | 2.30 | | 25.00 | 2.30 | 51.00 | 15196 |
| .0984 | | 2.50 | | 25.00 | 2.50 | 51.00 | 15051 |
| .1024 | | 2.60 | | 25.00 | 2.60 | 51.00 | 15186 |
| .1142 | | 2.90 | | 32.00 | 2.90 | 57.00 | 15187 |
| .1181 | | 3.00 | | 32.00 | 3.00 | 57.00 | 15061 |
| .1259 | | 3.20 | | 32.00 | 3.20 | 57.00 | 15245 |
| .1378 | | 3.50 | | 35.00 | 3.50 | 63.00 | 15066 |

DRILLS

118°

mm

METRIC

* Non Stocked

DRILLS

118°

FLUTE

mm

METRIC

* Non Stocked

1510

Titanium | Hardened Steels >48RC | Stainless Steels | Steels | Cast Iron | Graphite | Brass & Copper | High Si Al >10% | Low Si Al <10% | Composites | Wood | General Purpose



| Cutting Diameter | | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------|------------|------------|-------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | Wire/Letter | | | | UC |
| .1535 | | 3.90 | | 35.00 | 3.90 | 63.00 | 15246 |
| .1575 | | 4.00 | | 35.00 | 4.00 | 63.00 | 15076 |
| .1654 | | 4.20 | | 41.00 | 4.20 | 70.00 | 15188 |
| .1693 | | 4.30 | | 41.00 | 4.30 | 70.00 | 15189 |
| .1772 | | 4.50 | | 41.00 | 4.50 | 70.00 | 15084 |
| .1969 | | 5.00 | | 44.00 | 5.00 | 76.00 | 15093 |
| .2165 | | 5.50 | | 44.00 | 5.50 | 76.00 | 15101 |
| .2284 | | 5.80 | | 44.00 | 5.80 | 76.00 | 15190 |
| .2362 | | 6.00 | | 51.00 | 6.00 | 83.00 | 15107 |
| .2441 | | 6.20 | | 51.00 | 6.20 | 83.00 | 15191 |
| .2520 | | 6.40 | | 51.00 | 6.40 | 83.00 | 15194 |
| .2559 | | 6.50 | | 51.00 | 6.50 | 83.00 | 15113 |
| .2598 | | 6.60 | | 51.00 | 6.60 | 83.00 | 15195 |
| .2716 | | 6.90 | | 54.00 | 6.90 | 89.00 | 15247 |
| .2756 | | 7.00 | | 54.00 | 7.00 | 89.00 | 15119 |
| .2953 | | 7.50 | | 60.00 | 7.50 | 102.00 | 15125 |
| .3150 | | 8.00 | | 60.00 | 8.00 | 102.00 | 15129 |
| .3268 | | 8.30 | | 63.00 | 8.30 | 102.00 | 15192 |
| .3307 | | 8.40 | | 63.00 | 8.40 | 102.00 | 15197 |
| .3346 | | 8.50 | | 63.00 | 8.50 | 102.00 | 15173 |
| .3504 | | 8.90 | | 70.00 | 8.90 | 108.00 | 15198 |
| .3543 | | 9.00 | | 70.00 | 9.00 | 108.00 | 15134 |
| .3740 | | 9.50 | | 70.00 | 9.50 | 108.00 | 15142 |
| .3779 | | 9.60 | | 70.00 | 9.60 | 108.00 | 15193 |
| .3937 | | 10.00 | | 73.00 | 10.00 | 114.00 | 15147 |
| .4134 | | 10.50 | | 73.00 | 10.50 | 114.00 | 15151 |
| .4331 | | 11.00 | | 73.00 | 11.00 | 114.00 | 15153 |
| .4528 | | 11.50 | | 76.00 | 11.50 | 121.00 | 15155 |
| .4724 | | 12.00 | | 76.00 | 12.00 | 121.00 | 15158 |
| .4921 | | 12.50 | | 76.00 | 12.50 | 121.00 | 15160 |

2305 Center Drill

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Wood General Purpose



Basic Information:

- 118° Cam Relieved Pilot Point
- 2 Flutes
 - Right Hand Spiral
 - Right Hand Cut
- 60°, 82°, and 90° Included Angle Countersinks
- Double End
- Standard Uncoated
- Inch and Metric Based Tools
- Dura Carb (Micrograin)

Tolerance:

- Shank Diameter: h6
- Pilot Diameter: +.003" -.000"
- +0.08mm -0.00mm

| Tool Number | Pilot Diameter | | | Body Diameter | Overall Length | Countersink Angle | EDP Number |
|-------------|----------------|------------|------------|---------------|----------------|-------------------|------------|
| | Inch | Fractional | Millimeter | | | | |
| 000 | .0200 | | 0.51 | .1250 | 1.5000 | 60° | 23000 |
| 000 | .0200 | | 0.51 | .1250 | 1.5000 | 82° | 23002 |
| 000 | .0200 | | 0.51 | .1250 | 1.5000 | 90° | 23004 |
| 00 | .0250 | | 0.64 | .1250 | 1.5000 | 60° | 23001 |
| 00 | .0250 | | 0.64 | .1250 | 1.5000 | 82° | 23003 |
| 00 | .0250 | | 0.64 | .1250 | 1.5000 | 90° | 23005 |
| 0 | .0312 | 1/32 | 0.79 | .1250 | 1.5000 | 60° | 23100 |
| 0 | .0312 | 1/32 | 0.79 | .1250 | 1.5000 | 82° | 23200 |
| 0 | .0312 | 1/32 | 0.79 | .1250 | 1.5000 | 90° | 23300 |
| 1 | .0469 | 3/64 | 1.19 | .1250 | 1.5000 | 60° | 23101 |
| 1 | .0469 | 3/64 | 1.19 | .1250 | 1.5000 | 82° | 23201 |
| 1 | .0469 | 3/64 | 1.19 | .1250 | 1.5000 | 90° | 23301 |
| 2 | .0781 | 5/64 | 1.98 | .1875 | 2.0000 | 60° | 23102 |
| 2 | .0781 | 5/64 | 1.98 | .1875 | 2.0000 | 82° | 23202 |
| 2 | .0781 | 5/64 | 1.98 | .1875 | 2.0000 | 90° | 23302 |
| 3 | .1094 | 7/64 | 2.78 | .2500 | 2.0000 | 60° | 23103 |
| 3 | .1094 | 7/64 | 2.78 | .2500 | 2.0000 | 82° | 23203 |
| 3 | .1094 | 7/64 | 2.78 | .2500 | 2.0000 | 90° | 23303 |
| 4 | .1250 | 1/8 | 3.18 | .3125 | 2.1250 | 60° | 23104 |
| 4 | .1250 | 1/8 | 3.18 | .3125 | 2.1250 | 82° | 23204 |
| 4 | .1250 | 1/8 | 3.18 | .3125 | 2.1250 | 90° | 23304 |
| 5 | .1875 | 3/16 | 4.76 | .4375 | 2.7500 | 60° | 23105 |
| 5 | .1875 | 3/16 | 4.76 | .4375 | 2.7500 | 82° | 23205 |
| 5 | .1875 | 3/16 | 4.76 | .4375 | 2.7500 | 90° | 23305 |
| 6 | .2188 | 7/32 | 5.56 | .5000 | 3.0000 | 60° | 23106 |
| 6 | .2188 | 7/32 | 5.56 | .5000 | 3.0000 | 82° | 23206 |
| 6 | .2188 | 7/32 | 5.56 | .5000 | 3.0000 | 90° | 23306 |
| 7 | .2500 | 1/4 | 6.35 | .6250 | 3.2500 | 60° | 23107 |
| 7 | .2500 | 1/4 | 6.35 | .6250 | 3.2500 | 82° | 23207 |
| 7 | .2500 | 1/4 | 6.35 | .6250 | 3.2500 | 90° | 23307 |
| 8 | .3125 | 5/16 | 7.94 | .7500 | 3.5000 | 60° | 23108 |
| 8 | .3125 | 5/16 | 7.94 | .7500 | 3.5000 | 82° | 23208 |
| 8 | .3125 | 5/16 | 7.94 | .7500 | 3.5000 | 90° | 23308 |

DRILLS

118°

2
FLUTE

60°

82°

90°

mm
METRIC

DRILLS

2305 Center Drill

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper High Si Al >10% Low Si Al <10% Composites Wood General Purpose

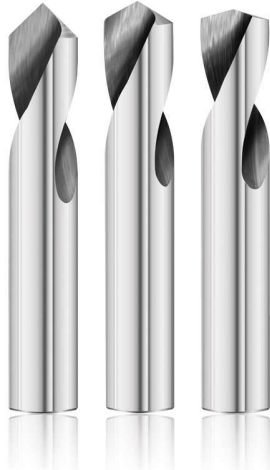


| Tool Number | Pilot Diameter | | | Body Diameter | Overall Length | Countersink Angle | EDP Number UC |
|----------------------------|----------------|------------|------------|---------------|----------------|-------------------|------------------|
| | Inch | Fractional | Millimeter | | | | |
| METRIC (Millimeter) | | | | | | | |
| | .0197 | | 0.50 | 3.00 | 38.00 | 60° | 15737 |
| | .0315 | | 0.80 | 3.00 | 38.00 | 60° | 15738 |
| | .0394 | | 1.00 | 3.00 | 38.00 | 60° | 15739 |
| | .0512 | | 1.30 | 3.00 | 38.00 | 60° | 15740 |
| | .0630 | | 1.60 | 4.00 | 50.00 | 60° | 15741 |
| | .0787 | | 2.00 | 5.00 | 51.00 | 60° | 15742 |
| | .0984 | | 2.50 | 6.00 | 50.00 | 60° | 15743 |
| | .1259 | | 3.20 | 8.00 | 50.00 | 60° | 15744 |
| | .1575 | | 4.00 | 10.00 | 76.00 | 60° | 15745 |
| | .1969 | | 5.00 | 12.00 | 76.00 | 60° | 15746 |



1535 NC Spotting Drills

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper Composites Wood General Purpose



Basic Information:

- 90°, 120°, and 150° Point Angles
- 2 Cam Relieved Flutes
 - Right Hand Spiral
 - Right Hand Cut
- Standard Uncoated
- Inch and Metric Based Tools
- Dura Carb (Micrograin)

Tolerance:

- Cutting Diameter: +.0000" -.0005"
- +0.000mm -0.013mm

Designed for fast and accurate spotting on NC machines, these drills are an excellent alternative to Combined Drill & Countersink Tools. With their short flute and overall lengths, no body clearance or back taper, these drills are very rigid allowing higher feeds & speeds. The unique flute design provides several easy regrinds without the need for web thinning. Centering and chamfering can be accomplished in a single operation.

| Cutting Diameter | | | Flute Length | Shank Diameter | Overall Length | Point Angle | EDP Number |
|---------------------|------------|------------|--------------|----------------|----------------|-------------|------------|
| Inch | Fractional | Millimeter | | | | | |
| .1250 | 1/8 | 3.18 | .6250 | .1250 | 2.5000 | 90° | 15450 |
| .1250 | 1/8 | 3.18 | .6250 | .1250 | 2.5000 | 120° | 15350 |
| .1250 | 1/8 | 3.18 | .6250 | .1250 | 2.5000 | 150° | 15736 |
| .1875 | 3/16 | 4.76 | .7500 | .1875 | 2.5000 | 90° | 15453 |
| .1875 | 3/16 | 4.76 | .7500 | .1875 | 2.5000 | 120° | 15353 |
| .1875 | 3/16 | 4.76 | .7500 | .1875 | 2.5000 | 150° | 15758 |
| .2500 | 1/4 | 6.35 | 1.0000 | .2500 | 2.5000 | 90° | 15462 |
| .2500 | 1/4 | 6.35 | 1.0000 | .2500 | 2.5000 | 120° | 15362 |
| .2500 | 1/4 | 6.35 | 1.0000 | .2500 | 2.5000 | 150° | 15774 |
| .3125 | 5/16 | 7.94 | 1.0000 | .3125 | 2.5000 | 90° | 15464 |
| .3125 | 5/16 | 7.94 | 1.0000 | .3125 | 2.5000 | 120° | 15364 |
| .3125 | 5/16 | 7.94 | 1.0000 | .3125 | 2.5000 | 150° | 15778 |
| .3750 | 3/8 | 9.53 | 1.2500 | .3750 | 3.0000 | 90° | 15468 |
| .3750 | 3/8 | 9.53 | 1.2500 | .3750 | 3.0000 | 120° | 15368 |
| .3750 | 3/8 | 9.53 | 1.2500 | .3750 | 3.0000 | 150° | 15782 |
| .5000 | 1/2 | 12.70 | 1.2500 | .5000 | 3.0000 | 90° | 15477 |
| .5000 | 1/2 | 12.70 | 1.2500 | .5000 | 3.0000 | 120° | 15377 |
| .5000 | 1/2 | 12.70 | 1.2500 | .5000 | 3.0000 | 150° | 15790 |
| .7500 | 3/4 | 19.05 | 1.5000 | .7500 | 4.0000 | 90° | 15708 |
| .7500 | 3/4 | 19.05 | 1.5000 | .7500 | 4.0000 | 120° | 15709 |
| .7500 | 3/4 | 19.05 | 1.5000 | .7500 | 4.0000 | 150° | 15707 |
| METRIC (Millimeter) | | | | | | | |
| .1181 | | 3.00 | 10.00 | 3.00 | 64.00 | 90° | 15454 |
| .1181 | | 3.00 | 10.00 | 3.00 | 64.00 | 120° | 15354 |
| .1181 | | 3.00 | 10.00 | 3.00 | 64.00 | 150° | 15700 |
| .1575 | | 4.00 | 12.00 | 4.00 | 64.00 | 90° | 15455 |
| .1575 | | 4.00 | 12.00 | 4.00 | 64.00 | 120° | 15355 |
| .1575 | | 4.00 | 12.00 | 4.00 | 64.00 | 150° | 15704 |
| .1969 | | 5.00 | 25.00 | 5.00 | 64.00 | 90° | 15456 |
| .1969 | | 5.00 | 25.00 | 5.00 | 64.00 | 120° | 15356 |
| .1969 | | 5.00 | 25.00 | 5.00 | 64.00 | 150° | 15701 |
| .2362 | | 6.00 | 25.00 | 6.00 | 64.00 | 90° | 15459 |

DRILLS

90°

120°

150°

2
FLUTE

mm

METRIC

DRILLS

1535 NC Spotting Drills

Titanium Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Brass & Copper Composites Wood General Purpose



| Cutting Diameter | | | Flute Length | Shank Diameter | Overall Length | Point Angle | EDP Number UC |
|------------------|------------|------------|--------------|----------------|----------------|-------------|------------------|
| Inch | Fractional | Millimeter | | | | | |
| .2362 | | 6.00 | 25.00 | 6.00 | 64.00 | 120° | 15359 |
| .2362 | | 6.00 | 25.00 | 6.00 | 64.00 | 150° | 15702 |
| .3150 | | 8.00 | 25.00 | 8.00 | 64.00 | 90° | 15465 |
| .3150 | | 8.00 | 25.00 | 8.00 | 64.00 | 120° | 15365 |
| .3150 | | 8.00 | 25.00 | 8.00 | 64.00 | 150° | 15703 |
| .3937 | | 10.00 | 32.00 | 10.00 | 76.00 | 90° | 15471 |
| .3937 | | 10.00 | 32.00 | 10.00 | 76.00 | 120° | 15371 |
| .3937 | | 10.00 | 32.00 | 10.00 | 76.00 | 150° | 15705 |
| .4724 | | 12.00 | 32.00 | 12.00 | 76.00 | 90° | 15474 |
| .4724 | | 12.00 | 32.00 | 12.00 | 76.00 | 120° | 15374 |
| .4724 | | 12.00 | 32.00 | 12.00 | 76.00 | 150° | 15706 |



1530 Spade Drill

Hardened Steels >48RC Stainless Steels Steels Cast Iron Graphite Wood General Purpose



Basic Information:

- 118° Point
- 2 Flat Flutes
 - Right Hand Cut
- Standard Uncoated
- Inch Based Tools
- Dura Carb (Micrograin)

Tolerance:

- Cutting Diameter: +.0000" -.0005"
 +0.000mm -0.013mm

Designed for Drilling Thin Sheet Metal and Shallow Hole Drilling

DRILLS

118°

| Cutting Diameter | | | Flute Length | Shank Diameter | Overall Length | EDP Number |
|------------------|------------|------------|--------------|----------------|----------------|------------|
| Inch | Fractional | Millimeter | | | | UC |
| .0625 | 1/16 | 1.59 | .3750 | .0625 | 1.5000 | 15301 |
| .0938 | 3/32 | 2.38 | .4375 | .0938 | 1.5000 | 15302 |
| .1250 | 1/8 | 3.18 | .5000 | .1250 | 1.5000 | 15303 |
| .1562 | 5/32 | 3.97 | .5625 | .1562 | 1.5000 | 15304 |
| .1875 | 3/16 | 4.76 | .6875 | .1875 | 2.0000 | 15305 |
| .2188 | 7/32 | 5.56 | .6875 | .2188 | 2.0000 | 15306 |
| .2500 | 1/4 | 6.35 | .8125 | .2500 | 2.0000 | 15307 |
| .2812 | 9/32 | 7.14 | .8750 | .2812 | 2.0000 | 15308 |
| .3125 | 5/16 | 7.94 | .8750 | .3125 | 2.5000 | 15309 |
| .3438 | 11/32 | 8.73 | .9375 | .3438 | 2.5000 | 15310 |
| .3750 | 3/8 | 9.53 | 1.1250 | .3750 | 2.5000 | 15311 |
| .4062 | 13/32 | 10.32 | 1.1250 | .4062 | 2.5000 | 15312 |
| .4375 | 7/16 | 11.11 | 1.1875 | .4375 | 2.5000 | 15313 |
| .4688 | 15/32 | 11.91 | 1.1875 | .4688 | 2.5000 | 15314 |
| .5000 | 1/2 | 12.70 | 1.3125 | .5000 | 2.5000 | 15315 |