

Twenty-First Century Manufacturing

Catalog 2000

QUALITY REAMERS



21CM
TWENTY-FIRST CENTURY



TERMS & CONDITIONS

RETURNED GOODS POLICY

Twenty-First Century Manufacturing will replace or apply full credit to your account for any tool that does not meet advertised catalog specifications for quality.

Twenty-First Century Manufacturing will not accept as a return any tool that has been altered or modified from its original manufactured specifications.

A 15% re-stocking charge will be applied to any returned standard. This charge will be deducted from the credit that will be issued to your account.

Twenty-First Century Manufacturing will not accept any return for a product that is purchased prior to two calendar years from date of request for return.

All returns must be given a "Returned Goods Authorization" and that can only be authorized by the Quality Assurance Manager, Customer Service Manager or President.

Twenty-First Century Manufacturing reserves the right to decline any return if the quantity desired to be returned cannot be reasonably re-sold within the next calendar year.

SPECIAL TOOLS POLICY

Cancellations of "Special" tools are subject to a charge for raw material and work performed prior to the time of cancellation. Acceptable industry practice assumes a 10% over or under shipment on a special tool order. If no over/under shipment is allowed, the corresponding RFQ and purchase order should carry the appropriate instructions.

TERMS OF PAYMENT

Net 30 days. F.O.B. Millersburg, PA(East Coast) or Lake Preston, SD(Midwest & West Coast) with minimum transportation charges prepaid or allowed on orders of \$500.00 or more. Minimum order \$25.00. (Net)

UNPAID ACCOUNTS POLICY

Accounts unpaid beyond 30 days are subject to a service charge of 1-1/2% per month and a hold may be placed on current active orders to the same account.

SHIPPING





F.O.B. Millersburg, PA (East Coast) or Lake Preston, SD (Midwest & West Coast) — Freight pre-paid on orders over \$500.00.

OPEN ACCOUNT APPLICATIONS

Complete address and telephone number of three trade references and your Bank are required.
PRICES SUBJECT TO CHANGE.

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CHUCKING REAMERS

HIGH SPEED STEEL, STRAIGHT SHANK
2270 Straight Flute, Right Hand Cut



Flute Configuration fro series 2270 Chucking Reamers.

- 4 Flutes .0280-.1561 Diameter
- 6 Flutes .1562-.5220 Diameter
- 8 Flutes .5221-.8820 Diameter
- 10 Flutes .8821-1.1950 Diameter
- 12 Flutes 1.1951-1.5000 Diameter

| EDP Number 2270 | Size | Decimal Equiv. Inches | Diameter of Shank | Length Overall Inches | Length Of Flute Inches | List Price 2270 |
|-----------------|-------|-----------------------|-------------------|-----------------------|------------------------|-----------------|
| 20001 | #70 | .0280 | .0260-.0250 | 2-1/2 | 1/2 | 12.90 |
| 20002 | #69 | .0292 | .0260-.0250 | 2-1/2 | 1/2 | 12.90 |
| 20003 | #68 | .0310 | .0290-.0280 | 2-1/2 | 1/2 | 12.90 |
| 20004 | 1/32" | .0312 | .0290-.0280 | 2-1/2 | 1/2 | 10.10 |
| 20005 | #67 | .0320 | .0290-.0280 | 2-1/2 | 1/2 | 10.80 |
| 20006 | #66 | .0330 | .0290-.0280 | 2-1/2 | 1/2 | 10.80 |
| 20007 | #65 | .0350 | .0320-.0310 | 2-1/2 | 1/2 | 10.80 |
| 20008 | #64 | .0360 | .0320-.0310 | 2-1/2 | 1/2 | 10.80 |
| 20009 | #63 | .0370 | .0350-.0340 | 2-1/2 | 1/2 | 10.80 |
| 20010 | #62 | .0380 | .0350-.0340 | 2-1/2 | 1/2 | 10.80 |
| 20011 | #61 | .0390 | .0350-.0340 | 2-1/2 | 1/2 | 10.80 |
| 20012 | 1MM | .0394 | .0350-.0340 | 2-1/2 | 1/2 | 10.80 |
| 20013 | #60 | .0400 | .0390-.0380 | 2-1/2 | 1/2 | 10.80 |
| 20014 | #59 | .0410 | .0390-.0380 | 2-1/2 | 1/2 | 10.80 |
| 20015 | #58 | .0420 | .0390-.0380 | 2-1/2 | 1/2 | 10.80 |
| 20016 | #57 | .0430 | .0390-.0380 | 2-1/2 | 1/2 | 10.80 |
| 20017 | #56 | .0465 | .0455-.0445 | 2-1/2 | 1/2 | 10.80 |
| 20018 | 3/64" | .0469 | .0455-.0445 | 2-1/2 | 1/2 | 10.80 |
| 20019 | #55 | .0520 | .0510-.0500 | 2-1/2 | 1/2 | 10.80 |
| 20020 | #54 | .0550 | .0510-.0500 | 2-1/2 | 1/2 | 10.80 |
| 20021 | 1.5MM | .0591 | .0585-.0575 | 2-1/2 | 1/2 | 10.80 |
| 20022 | #53 | .0595 | .0585-.0575 | 2-1/2 | 1/2 | 10.80 |
| 20023 | 1/16" | .0625 | .0585-.0575 | 2-1/2 | 1/2 | 9.70 |
| 20024 | #52 | .0635 | .0585-.0575 | 2-1/2 | 1/2 | 9.70 |
| 20025 | #51 | .0670 | .0660-.0650 | 3 | 3/4 | 8.80 |
| 20026 | #50 | .0700 | .0660-.0650 | 3 | 3/4 | 8.80 |
| 20027 | #49 | .0730 | .0660-.0650 | 3 | 3/4 | 8.80 |
| 20028 | #48 | .0760 | .0720-.0710 | 3 | 3/4 | 8.80 |
| 20029 | 5/64" | .0781 | .0720-.0710 | 3 | 3/4 | 8.80 |
| 20030 | #47 | .0785 | .0720-.0710 | 3 | 3/4 | 8.80 |
| 20031 | 2MM | .0787 | .0720-.0710 | 3 | 3/4 | 8.80 |
| 20032 | #46 | .0810 | .0771-.0761 | 3 | 3/4 | 8.80 |
| 20033 | #45 | .0820 | .0771-.0761 | 3 | 3/4 | 8.80 |
| 20034 | #44 | .0860 | .0810-.0800 | 3 | 3/4 | 8.80 |
| 20035 | #43 | .0890 | .0810-.0800 | 3 | 3/4 | 8.80 |
| 20036 | #42 | .0935 | .0880-.0870 | 3 | 3/4 | 8.80 |
| 20037 | 3/32" | .0938 | .0880-.0870 | 3 | 3/4 | 7.90 |
| 20038 | #41 | .0960 | .0928-.0918 | 3-1/2 | 7/8 | 8.90 |
| 20039 | #40 | .0980 | .0928-.0918 | 3-1/2 | 7/8 | 8.90 |
| 20040 | 2.5MM | .0984 | .0928-.0918 | 3-1/2 | 7/8 | 8.90 |
| 20041 | #39 | .0995 | .0928-.0918 | 3-1/2 | 7/8 | 8.50 |
| 20042 | #38 | .1015 | .0950-.0940 | 3-1/2 | 7/8 | 8.50 |
| 20043 | #37 | .1040 | .0950-.0940 | 3-1/2 | 7/8 | 8.50 |

| EDP Number 2270 | Size | Decimal Equiv. Inches | Diameter of Shank | Length Overall Inches | Length Of Flute Inches | List Price 2270 |
|-----------------|--------|-----------------------|-------------------|-----------------------|------------------------|-----------------|
| 20044 | #36 | .1065 | .1030-.1020 | 3-1/2 | 7/8 | 8.50 |
| 20045 | 7/64" | .1094 | .1030-.1020 | 3-1/2 | 7/8 | 8.80 |
| 20046 | #35 | .1100 | .1030-.1020 | 3-1/2 | 7/8 | 8.80 |
| 20047 | #34 | .1110 | .1055-.1045 | 3-1/2 | 7/8 | 8.80 |
| 20048 | #33 | .1130 | .1055-.1045 | 3-1/2 | 7/8 | 8.80 |
| 20049 | #32 | .1160 | .1120-.1110 | 3-1/2 | 7/8 | 8.80 |
| 20050 | 3.0MM | .1181 | .1120-.1110 | 3-1/2 | 7/8 | 8.80 |
| 20051 | #31 | .1200 | .1120-.1110 | 3-1/2 | 7/8 | 8.80 |
| 20052 | d-p | .1230 | .1120-.1110 | 3-1/2 | 7/8 | 8.80 |
| 20053 | o/u | .1240 | .1190-.1180 | 3-1/2 | 7/8 | 8.80 |
| 20054 | d-p | .1247 | .1190-.1180 | 3-1/2 | 7/8 | 8.80 |
| 20055 | 1/8" | .1250 | .1190-.1180 | 3-1/2 | 7/8 | 7.10 |
| 20056 | o/u | .1260 | .1190-.1180 | 3-1/2 | 7/8 | 8.80 |
| 20057 | #30 | .1285 | .1190-.1180 | 3-1/2 | 7/8 | 8.80 |
| 20058 | #29 | .1360 | .1275-.1265 | 4 | 1 | 10.40 |
| 20059 | 3.5MM | .1378 | .1275-.1265 | 4 | 1 | 10.40 |
| 20060 | #28 | .1405 | .1350-.1340 | 4 | 1 | 10.40 |
| 20061 | 9/64" | .1406 | .1350-.1340 | 4 | 1 | 10.40 |
| 20062 | #27 | .1440 | .1350-.1340 | 4 | 1 | 10.40 |
| 20063 | #26 | .1470 | .1430-.1420 | 4 | 1 | 10.40 |
| 20064 | #25 | .1495 | .1430-.1420 | 4 | 1 | 10.40 |
| 20065 | #24 | .1520 | .1460-.1450 | 4 | 1 | 10.40 |
| 20066 | #23 | .1540 | .1460-.1450 | 4 | 1 | 10.40 |
| 20067 | 5/32" | .1562 | .1510-.1500 | 4 | 1 | 9.30 |
| 20068 | #22 | .1570 | .1510-.1500 | 4 | 1 | 10.40 |
| 20069 | 4.0MM | .1575 | .1510-.1500 | 4 | 1 | 10.40 |
| 20070 | #21 | .1590 | .1530-.1520 | 4-1/2 | 1-1/8 | 11.00 |
| 20071 | #20 | .1610 | .1530-.1520 | 4-1/2 | 1-1/8 | 11.00 |
| 20072 | #19 | .1660 | .1595-.1585 | 4-1/2 | 1-1/8 | 11.00 |
| 20073 | #18 | .1695 | .1595-.1585 | 4-1/2 | 1-1/8 | 11.00 |
| 20074 | 11/64" | .1719 | .1645-.1635 | 4-1/2 | 1-1/8 | 11.00 |
| 20075 | #17 | .1730 | .1645-.1635 | 4-1/2 | 1-1/8 | 11.00 |
| 20076 | #16 | .1770 | .1704-.1694 | 4-1/2 | 1-1/8 | 11.00 |
| 20077 | 4.5MM | .1772 | .1704-.1694 | 4-1/2 | 1-1/8 | 11.00 |
| 20078 | #15 | .1800 | .1755-.1745 | 4-1/2 | 1-1/8 | 11.00 |
| 20079 | #14 | .1820 | .1755-.1745 | 4-1/2 | 1-1/8 | 11.00 |
| 20080 | #13 | .1850 | .1850-.1795 | 4-1/2 | 1-1/8 | 11.00 |
| 20081 | d-p | .1855 | .1805-.1795 | 4-1/2 | 1-1/8 | 11.00 |
| 20082 | o/u | .1865 | .1805-.1795 | 4-1/2 | 1-1/8 | 11.00 |
| 20083 | d-p | .1870 | .1805-.1795 | 4-1/2 | 1-1/8 | 11.00 |
| 20084 | 3/16" | .1875 | .1805-.1795 | 4-1/2 | 1-1/8 | 10.10 |
| 20085 | o/u | .1885 | .1805-.1795 | 4-1/2 | 1-1/8 | 11.00 |
| 20086 | #12 | .1890 | .1805-.1795 | 4-1/2 | 1-1/8 | 11.00 |

Precision Ground Flutes to $\pm .0002$ -.0000, Dowel Pins $\pm .0000$ -.0002

CHUCKING REAMERS

HIGH SPEED STEEL, STRAIGHT SHANK
2270 Straight Flute, Right Hand Cut



| EDP Number 2270 | Size | Decimal Equiv. Inches | Diameter of Shank | Length Overall Inches | Length Of Flute Inches | List Price 2270 |
|-----------------|---------|-----------------------|-------------------|-----------------------|------------------------|-----------------|
| 20087 | #11 | .1910 | .1860-.1850 | 5 | 1-1/4 | 12.40 |
| 20088 | #10 | .1935 | .1860-.1850 | 5 | 1-1/4 | 12.40 |
| 20089 | #9 | .1960 | .1895-.1885 | 5 | 1-1/4 | 12.40 |
| 20090 | 5.0MM | .1968 | .1895-.1855 | 5 | 1-1/4 | 12.40 |
| 20091 | #8 | .1990 | .1895-.1885 | 5 | 1-1/4 | 12.40 |
| 20092 | #7 | .2010 | .1945-.1935 | 5 | 1-1/4 | 12.40 |
| 20093 | 13/64" | .2031 | .1945-.1935 | 5 | 1-1/4 | 12.40 |
| 20094 | #6 | .2040 | .1945-.1935 | 5 | 1-1/4 | 12.40 |
| 20095 | #5 | .2055 | .2016-.2006 | 5 | 1-1/4 | 12.40 |
| 20096 | #4 | .2090 | .2016-.2006 | 5 | 1-1/4 | 12.40 |
| 20097 | #3 | .2130 | .2075-.2065 | 5 | 1-1/4 | 12.50 |
| 20098 | 5.5MM | .2165 | .2075-.2065 | 5 | 1-1/4 | 12.50 |
| 20099 | 7/32" | .2188 | .2075-.2065 | 5 | 1-1/4 | 12.50 |
| 20100 | #2 | .2210 | .2173-.2163 | 6 | 1-1/2 | 12.70 |
| 20101 | #1 | .2280 | .2173-.2163 | 6 | 1-1/2 | 12.70 |
| 20102 | A | .2340 | .2265-.2255 | 6 | 1-1/2 | 12.70 |
| 20103 | 15/64" | .2344 | .2265-.2255 | 6 | 1-1/2 | 12.70 |
| 20104 | 6.0MM | .2362 | .2265-.2255 | 6 | 1-1/2 | 13.50 |
| 20105 | B | .2380 | .2329-.2319 | 6 | 1-1/2 | 13.50 |
| 20106 | C | .2420 | .2329-.2319 | 6 | 1-1/2 | 13.50 |
| 20107 | D | .2460 | .2329-.2319 | 6 | 1-1/2 | 13.50 |
| 20108 | d-p | .2480 | .2329-.2319 | 6 | 1-1/2 | 13.50 |
| 20109 | o/u | .2490 | .2405-.2395 | 6 | 1-1/2 | 12.30 |
| 20110 | d-p | .2495 | .2405-.2395 | 6 | 1-1/2 | 12.10 |
| 20111 | (E)1/4" | .2500 | .2405-.2395 | 6 | 1-1/2 | 12.00 |
| 20112 | o/u | .2510 | .2405-.2395 | 6 | 1-1/2 | 12.20 |
| 20113 | 6.5MM | .2559 | .2405-.2395 | 6 | 1-1/2 | 13.40 |
| 20114 | F | .2570 | .2405-.2395 | 6 | 1-1/2 | 13.40 |
| 20115 | G | .2610 | .2485-.2475 | 6 | 1-1/2 | 13.50 |
| 20116 | 17/64" | .2656 | .2485-.2475 | 6 | 1-1/2 | 15.10 |
| 20117 | H | .2660 | .2485-.2475 | 6 | 1-1/2 | 15.10 |
| 20118 | I | .2720 | .2485-.2475 | 6 | 1-1/2 | 15.10 |
| 20119 | 7.0MM | .2756 | .2485-.2475 | 6 | 1-1/2 | 15.10 |
| 20120 | J | .2770 | .2485-.2475 | 6 | 1-1/2 | 15.10 |
| 20121 | K | .2810 | .2485-.2475 | 6 | 1-1/2 | 15.10 |
| 20122 | 9/32" | .2812 | .2485-.2475 | 6 | 1-1/2 | 15.10 |
| 20123 | L | .2900 | .2792-.2782 | 6 | 1-1/2 | 15.10 |
| 20124 | M | .2950 | .2792-.2782 | 6 | 1-1/2 | 15.10 |
| 20125 | 7.5MM | .2953 | .2792-.2782 | 6 | 1-1/2 | 15.10 |
| 20126 | 19/64" | .2969 | .2792-.2782 | 6 | 1-1/2 | 15.10 |
| 20127 | N | .3020 | .2792-.2782 | 6 | 1-1/2 | 15.10 |
| 20128 | d-p | .3105 | .2792-.2782 | 6 | 1-1/2 | 15.10 |
| 20129 | o/u | .3115 | .2792-.2782 | 6 | 1-1/2 | 14.30 |
| 20130 | d-p | .3120 | .2792-.2782 | 6 | 1-1/2 | 14.30 |
| 20131 | 5.16" | .3125 | .2792-.2782 | 6 | 1-1/2 | 13.80 |
| 20132 | o/u | .3135 | .2792-.2782 | 6 | 1-1/2 | 14.30 |
| 20133 | 8.0MM | .3150 | .2792-.2782 | 6 | 1-1/2 | 15.10 |
| 20134 | O | .3160 | .2792-.2782 | 6 | 1-1/2 | 15.10 |
| 20135 | P | .3230 | .2792-.2782 | 6 | 1-1/2 | 16.00 |
| 20136 | 21/64" | .3281 | .2792-.2782 | 6 | 1-1/2 | 16.00 |
| 20137 | Q | .3320 | .2792-.2782 | 6 | 1-1/2 | 16.00 |
| 20138 | 8.5MM | .3346 | .2792-.2782 | 6 | 1-1/2 | 16.00 |
| 20139 | R | .3390 | .2792-.2782 | 6 | 1-1/2 | 16.00 |
| 20140 | 11/32" | .3438 | .2792-.2782 | 6 | 1-1/2 | 16.00 |
| 20141 | S | .3480 | .3105-.3095 | 7 | 1-3/4 | 16.00 |
| 20142 | 9.0MM | .3543 | .3105-.3095 | 7 | 1-3/4 | 16.00 |
| 20143 | T | .3580 | .3105-.3095 | 7 | 1-3/4 | 16.00 |
| 20144 | 23/64" | .3594 | .3105-.3095 | 7 | 1-3/4 | 16.00 |

| EDP Number 2270 | Size | Decimal Equiv. Inches | Diameter of Shank | Length Overall Inches | Length Of Flute Inches | List Price 2270 |
|-----------------|------------|-----------------------|-------------------|-----------------------|------------------------|-----------------|
| 20145 | U | .3680 | .3105-.3095 | 7 | 1-3/4 | 16.00 |
| 20146 | d-p | .3730 | .3105-.3095 | 7 | 1-3/4 | 16.00 |
| 20148 | o/u, 9.5MM | .3740 | .3105-.3095 | 7 | 1-3/4 | 15.40 |
| 20149 | d-p | .3745 | .3105-.3095 | 7 | 1-3/4 | 16.00 |
| 20150 | 3/8" | .3750 | .3105-.3095 | 7 | 1-3/4 | 15.20 |
| 20151 | o/u | .3760 | .3105-.3095 | 7 | 1-3/4 | 15.40 |
| 20152 | V | .3770 | .3105-.3095 | 7 | 1-3/4 | 17.50 |
| 20153 | W | .3860 | .3105-.3095 | 7 | 1-3/4 | 17.50 |
| 20154 | 25/64" | .3906 | .3105-.3095 | 7 | 1-3/4 | 17.50 |
| 20155 | 10.0MM | .3937 | .3105-.3095 | 7 | 1-3/4 | 17.50 |
| 20156 | X | .3970 | .3105-.3095 | 7 | 1-3/4 | 18.20 |
| 20157 | Y | .4040 | .3105-.3095 | 7 | 1-3/4 | 18.20 |
| 20158 | 13/32" | .4062 | .3105-.3095 | 7 | 1-3/4 | 18.20 |
| 20159 | Z | .4130 | .3730-.3720 | 7 | 1-3/4 | 18.20 |
| 20160 | 10.5MM | .4134 | .3730-.3720 | 7 | 1-3/4 | 18.20 |
| 20161 | 27/64" | .4219 | .3730-.3720 | 7 | 1-3/4 | 18.20 |
| 20162 | 11.0MM | .4331 | .3730-.3720 | 7 | 1-3/4 | 18.20 |
| 20163 | d-p | .4355 | .3730-.3720 | 7 | 1-3/4 | 17.70 |
| 20164 | o/u | .4365 | .3730-.3720 | 7 | 1-3/4 | 17.70 |
| 20165 | d-p | .4370 | .3730-.3720 | 7 | 1-3/4 | 17.70 |
| 20166 | 7/16" | .4375 | .3730-.3720 | 7 | 1-3/4 | 17.70 |
| 20167 | o/u | .4385 | .3730-.3720 | 7 | 1-3/4 | 17.70 |
| 20168 | 11.5MM | .4528 | .3730-.3720 | 7 | 1-3/4 | 19.80 |
| 20169 | 29/64" | .4531 | .3730-.3720 | 7 | 1-3/4 | 19.80 |
| 20170 | 15/32" | .4688 | .3730-.3720 | 7 | 1-3/4 | 19.80 |
| 20171 | 12.0MM | .4724 | .4355-.4345 | 8 | 2 | 19.80 |
| 20172 | 31/64" | .4844 | .4355-.4345 | 8 | 2 | 19.80 |
| 20173 | 12.5MM | .4921 | .4355-.4345 | 8 | 2 | 19.80 |
| 20174 | d-p | .4980 | .4355-.4345 | 8 | 2 | 19.80 |
| 20175 | o/u | .4990 | .4355-.4345 | 8 | 2 | 19.20 |
| 20176 | d-p | .4995 | .4355-.4345 | 8 | 2 | 19.20 |
| 20177 | 1/2" | .5000 | .4355-.4345 | 8 | 2 | 19.20 |
| 20178 | o/u | .5010 | .4355-.4345 | 8 | 2 | 19.00 |
| 20179 | 13.0MM | .5118 | .4355-.4345 | 8 | 2 | 23.90 |
| 20400 | 33/64" | .5156 | .4355-.4345 | 8 | 2 | 23.30 |
| 20180 | 17/32" | .5312 | .4355-.4345 | 8 | 2 | 23.30 |
| 20181 | 13.5MM | .5315 | .4355-.4345 | 8 | 2 | 23.90 |
| 20401 | 35/64" | .5469 | .4355-.4345 | 8 | 2 | 23.90 |
| 20182 | 14.0MM | .5512 | .4355-.4345 | 8 | 2 | 23.90 |
| 20183 | 9/16" | .5625 | .4355-.4345 | 8 | 2 | 23.70 |
| 20184 | 14.5MM | .5709 | .4355-.4345 | 8 | 2 | 24.60 |
| 20402 | 37/64" | .5781 | .4355-.4345 | 8 | 2 | 24.60 |
| 20185 | 15.0MM | .5906 | .4355-.4345 | 8 | 2 | 24.60 |
| 20186 | 19/32" | .5938 | .4355-.4345 | 8 | 2 | 23.30 |
| 20403 | 39/64" | .6094 | .4355-.4345 | 8 | 2 | 27.80 |
| 20187 | 15.5MM | .6102 | .4355-.4345 | 8 | 2 | 28.50 |
| 20188 | 5/8" | .6250 | .5620-.5605 | 9 | 2-1/4 | 27.90 |
| 20189 | 16.0MM | .6299 | .5620-.5605 | 9 | 2-1/4 | 28.50 |
| 20404 | 41/64" | .6406 | .5620-.5605 | 9 | 2-1/4 | 28.50 |
| 20190 | 16.5MM | .6496 | .5620-.5605 | 9 | 2-1/4 | 28.50 |
| 20191 | 21/32" | .6562 | .5620-.5605 | 9 | 2-1/4 | 30.70 |
| 20192 | 17.0MM | .6693 | .5620-.5605 | 9 | 2-1/4 | 31.90 |
| 20405 | 43/64" | .6719 | .5620-.5605 | 9 | 2-1/4 | 31.90 |
| 20193 | 11/16" | .6875 | .5620-.5605 | 9 | 2-1/4 | 30.70 |
| 20194 | 17.5MM | .6890 | .5620-.5605 | 9 | 2-1/4 | 34.50 |
| 20406 | 45/64" | .7031 | .5620-.5605 | 9 | 2-1/4 | 34.50 |
| 20195 | 18.0MM | .7087 | .5620-.5605 | 9 | 2-1/4 | 34.50 |
| 20196 | 23/32" | .7188 | .5620-.5605 | 9 | 2-1/4 | 34.50 |

Precision Ground Flutes to $\pm .0002$ -.0000, Dowel Pin Sizes $\pm .0000$ -.0002



CHUCKING REAMERS

HIGH SPEED STEEL, STRAIGHT SHANK
2270 Straight Flute, Right Hand Cut

| EDP Number 2270 | Size | Decimal Equiv. Inches | Diameter of Shank | Length Overall Inches | Length Of Flute Inches | List Price 2270 |
|-----------------|--------|-----------------------|-------------------|-----------------------|------------------------|-----------------|
| 20197 | 18.5MM | .7283 | .6245-.6230 | 9-1/2 | 2-1/2 | 35.90 |
| 20407 | 47/64" | .7344 | .6245-.6230 | 9-1/2 | 2-1/2 | 35.90 |
| 20198 | 19.0MM | .7480 | .6245-.6230 | 9-1/2 | 2-1/2 | 39.70 |
| 20199 | 3/4" | .7500 | .6245-.6230 | 9-1/2 | 2-1/2 | 34.40 |
| 20408 | 49/64" | .7656 | .6245-.6230 | 9-1/2 | 2-1/2 | 38.30 |
| 20200 | 19.5MM | .7677 | .6245-.6230 | 9-1/2 | 2-1/2 | 38.30 |
| 20201 | 25/32" | .7812 | .6245-.6230 | 9-1/2 | 2-1/2 | 37.10 |
| 20202 | 20.0MM | .7874 | .6245-.6230 | 9-1/2 | 2-1/2 | 40.90 |
| 20409 | 51/64" | .7969 | .6245-.6230 | 9-1/2 | 2-1/2 | 40.90 |
| 20203 | 20.5MM | .8071 | .6245-.6230 | 9-1/2 | 2-1/2 | 40.90 |
| 20204 | 13/16" | .8125 | .6245-.6230 | 9-1/2 | 2-1/2 | 37.10 |
| 20205 | 21.0MM | .8268 | .6245-.6230 | 9-1/2 | 2-1/2 | 40.90 |
| 20410 | 53/64" | .8281 | .6245-.6230 | 9-1/2 | 2-1/2 | 40.90 |
| 20206 | 27/32" | .8438 | .6245-.6230 | 9-1/2 | 2-1/2 | 43.80 |
| 20207 | 21.5MM | .8465 | .6245-.6230 | 9-1/2 | 2-1/2 | 47.70 |
| 20411 | 55/64" | .8594 | .7495-.7480 | 10 | 2-5/8 | 47.70 |
| 20208 | 22.0MM | .8661 | .7495-.7480 | 10 | 2-5/8 | 47.70 |
| 20209 | 7/8" | .8750 | .7495-.7480 | 10 | 2-5/8 | 44.80 |
| 20210 | 22.5MM | .8858 | .7495-.7480 | 10 | 2-5/8 | 48.70 |
| 20412 | 57/64" | .8906 | .7495-.7480 | 10 | 2-5/8 | 48.70 |

| EDP Number 2270 | Size | Decimal Equiv. Inches | Diameter of Shank | Length Overall Inches | Length Of Flute Inches | List Price 2270 |
|-----------------|---------|-----------------------|-------------------|-----------------------|------------------------|-----------------|
| 20211 | 23.0MM | .9055 | .7495-.7480 | 10 | 2-5/8 | 48.70 |
| 20212 | 29/32" | .9062 | .7495-.7480 | 10 | 2-5/8 | 48.40 |
| 20413 | 59/64" | .9219 | .7495-.7480 | 10 | 2-5/8 | 51.70 |
| 20213 | 23.5MM | .9252 | .7495-.7480 | 10 | 2-5/8 | 51.70 |
| 20214 | 15/16" | .9375 | .7495-.7480 | 10 | 2-5/8 | 48.40 |
| 20215 | 24.0MM | .9449 | .7495-.7480 | 10 | 2-5/8 | 52.20 |
| 20414 | 61/64" | .9531 | .7495-.7480 | 10 | 2-5/8 | 52.20 |
| 20216 | 24.5MM | .9646 | .7495-.7480 | 10 | 2-5/8 | 52.20 |
| 20217 | 31/32" | .9688 | .7495-.7480 | 10 | 2-5/8 | 54.20 |
| 20218 | 25.0MM | .9843 | .8745-.8730 | 10-1/2 | 2-3/4 | 55.50 |
| 20415 | 63/64" | .9844 | .8745-.8730 | 10-1/2 | 2-3/4 | 54.60 |
| 20219 | 1" | 1.0000 | .8745-.8730 | 10-1/2 | 2-3/4 | 54.60 |
| 20220 | 1-1/16" | 1.0625 | .8745-.8730 | 10-1/2 | 2-3/4 | 60.70 |
| 20221 | 1-1/8" | 1.1250 | .8745-.8730 | 11 | 2-7/8 | 64.20 |
| 20222 | 1-3/16" | 1.1875 | .9995-.9980 | 11 | 2-7/8 | 75.30 |
| 20223 | 1-1/4" | 1.2500 | .9995-.9980 | 11-1/2 | 3 | 79.90 |
| 20224 | 1-5/16" | 1.3125 | .9995-.9980 | 11-1/2 | 3 | 93.10 |
| 20225 | 1-3/8" | 1.3750 | .9995-.9980 | 12 | 3-1/4 | 98.00 |
| 20226 | 1-7/16" | 1.4375 | 1.2495-1.248 | 12 | 3-1/4 | 105.00 |
| 20227 | 1-1/2" | 1.5000 | 1.2495-1.248 | 12-1/2 | 3-1/2 | 113.00 |

Precision Ground Flutes to +.0002 -.0000, Dowel Pin Sizes +.0000 -.0002

CHUCKING REAMERS

SPECIAL DECIMAL SIZES

HIGH SPEED STEEL, STRAIGHT SHANK



| EDP Number 2270 | Size | EDP Number 2270 | Size | EDP Number 2270 | Size | EDP Number 2270 | Size | EDP Number 2270 | Size | EDP Number 2270 | Size |
|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
| 40001 | 0.0285 | 40031 | 0.0435 | 40061 | 0.0585 | 40091 | 0.0735 | 40121 | 0.0885 | 40151 | 0.1035 |
| 40002 | 0.0290 | 40032 | 0.0440 | 40062 | 0.0590 | 40092 | 0.0740 | 40122 | 0.0890 | 40152 | 0.1040 |
| 40003 | 0.0295 | 40033 | 0.0445 | 20022 | 0.0595 | 40093 | 0.0745 | 40123 | 0.0895 | 40153 | 0.1045 |
| 40004 | 0.0300 | 40034 | 0.0450 | 40064 | 0.0600 | 40094 | 0.0750 | 40124 | 0.0900 | 40154 | 0.1050 |
| 40005 | 0.0305 | 40035 | 0.0455 | 40065 | 0.0605 | 40095 | 0.0755 | 40125 | 0.0905 | 40155 | 0.1055 |
| 20003 | 0.0310 | 40036 | 0.0460 | 40066 | 0.0610 | 20028 | 0.0760 | 40126 | 0.0910 | 40159 | 0.1060 |
| 40007 | 0.0315 | 20017 | 0.0465 | 40067 | 0.0615 | 40097 | 0.0765 | 40127 | 0.0915 | 20044 | 0.1065 |
| 20005 | 0.0320 | 40038 | 0.0470 | 40068 | 0.0620 | 40098 | 0.0770 | 40128 | 0.0920 | 40161 | 0.1070 |
| 40009 | 0.0325 | 40039 | 0.0475 | 20023 | 0.0625 | 40099 | 0.0775 | 40129 | 0.0925 | 40162 | 0.1075 |
| 20006 | 0.0330 | 40040 | 0.0480 | 40070 | 0.0630 | 40100 | 0.0780 | 40130 | 0.0930 | 40163 | 0.1080 |
| 40011 | 0.0335 | 40041 | 0.0485 | 20024 | 0.0635 | 20030 | 0.0785 | 20036 | 0.0935 | 40164 | 0.1085 |
| 40012 | 0.0340 | 40042 | 0.0490 | 40072 | 0.0640 | 40102 | 0.0790 | 40132 | 0.0940 | 40165 | 0.1090 |
| 40013 | 0.0345 | 40043 | 0.0495 | 40073 | 0.0645 | 40103 | 0.0795 | 40133 | 0.0945 | 40166 | 0.1095 |
| 20007 | 0.0350 | 40044 | 0.0500 | 40074 | 0.0650 | 40104 | 0.0800 | 40134 | 0.0950 | 20046 | 0.1100 |
| 40015 | 0.0355 | 40045 | 0.0505 | 40075 | 0.0655 | 40105 | 0.0805 | 40135 | 0.0955 | 40168 | 0.1105 |
| 20008 | 0.0360 | 40046 | 0.0510 | 40076 | 0.0660 | 20032 | 0.0810 | 20038 | 0.0960 | 20047 | 0.1110 |
| 40017 | 0.0365 | 40047 | 0.0515 | 40077 | 0.0665 | 40107 | 0.0815 | 40137 | 0.0965 | 40170 | 0.1115 |
| 20009 | 0.0370 | 20019 | 0.0520 | 20025 | 0.0670 | 20033 | 0.0820 | 40138 | 0.0970 | 40171 | 0.1120 |
| 40019 | 0.0375 | 40049 | 0.0525 | 40079 | 0.0675 | 40109 | 0.0825 | 40139 | 0.0975 | 40172 | 0.1125 |
| 20010 | 0.0380 | 40050 | 0.0530 | 40080 | 0.0680 | 40110 | 0.0830 | 20039 | 0.0980 | 20048 | 0.1130 |
| 40021 | 0.0385 | 40051 | 0.0535 | 40081 | 0.0685 | 40111 | 0.0835 | 40141 | 0.0985 | 40174 | 0.1135 |
| 20011 | 0.0390 | 40052 | 0.0540 | 40082 | 0.0690 | 40112 | 0.0840 | 40142 | 0.0990 | 40175 | 0.1140 |
| 40023 | 0.0395 | 40053 | 0.0545 | 40083 | 0.0695 | 40113 | 0.0845 | 20041 | 0.0995 | 40176 | 0.1145 |
| 20013 | 0.0400 | 20020 | 0.0550 | 20026 | 0.0700 | 40114 | 0.0850 | 40144 | 0.1000 | 40177 | 0.1150 |
| 40025 | 0.0405 | 40055 | 0.0555 | 40085 | 0.0705 | 40115 | 0.0855 | 40148 | 0.1005 | 40178 | 0.1155 |
| 20014 | 0.0410 | 40056 | 0.0560 | 40086 | 0.0710 | 20034 | 0.0860 | 40149 | 0.1010 | 20049 | 0.1160 |
| 40027 | 0.0415 | 40057 | 0.0565 | 40087 | 0.0715 | 40117 | 0.0865 | 20042 | 0.1015 | 40180 | 0.1165 |
| 20015 | 0.0420 | 40058 | 0.0570 | 40088 | 0.0720 | 40118 | 0.0870 | 40151 | 0.1020 | 40181 | 0.1170 |
| 40029 | 0.0425 | 40059 | 0.0575 | 40089 | 0.0725 | 40119 | 0.0875 | 40152 | 0.1025 | 40182 | 0.1175 |
| 20016 | 0.0430 | 40060 | 0.0580 | 20027 | 0.0730 | 40120 | 0.0880 | 40153 | 0.1030 | 40183 | 0.1180 |

Precision Ground Flutes to +.0002 -.0000

CHUCKING REAMERS

SPECIAL DECIMAL SIZES

HIGH SPEED STEEL, STRAIGHT SHANK
2270 Straight Flute, Right Hand Cut



| EDP Number 2270 | Size | EDP Number 2270 | Size | EDP Number 2270 | Size | EDP Number 2270 | Size | EDP Number 2270 | Size | EDP Number 2270 | Size |
|--------------------|--------|--------------------|--------|--------------------|--------|--------------------|--------|--------------------|--------|--------------------|--------|
| 40184 | 0.1185 | 40264 | 0.1585 | 40344 | 0.1985 | 40425 | 0.2385 | 40505 | 0.2785 | 40585 | 0.3185 |
| 40185 | 0.1190 | 20070 | 0.1590 | 20091 | 0.1990 | 40426 | 0.2390 | 40506 | 0.2790 | 40586 | 0.3190 |
| 40186 | 0.1195 | 40266 | 0.1595 | 40346 | 0.1995 | 40427 | 0.2395 | 40507 | 0.2795 | 40587 | 0.3195 |
| 20051 | 0.1200 | 40267 | 0.1600 | 40347 | 0.2000 | 40428 | 0.2400 | 40508 | 0.2800 | 40588 | 0.3200 |
| 40188 | 0.1205 | 40268 | 0.1605 | 40378 | 0.2005 | 40429 | 0.2405 | 40509 | 0.2805 | 40589 | 0.3205 |
| 40189 | 0.1210 | 20071 | 0.1610 | 20092 | 0.2010 | 40430 | 0.2410 | 20121 | 0.2810 | 40590 | 0.3210 |
| 40190 | 0.1215 | 40270 | 0.1615 | 40350 | 0.2015 | 40431 | 0.2415 | 40511 | 0.2815 | 40591 | 0.3215 |
| 40191 | 0.1220 | 40271 | 0.1620 | 40351 | 0.2020 | 20106 | 0.2420 | 40512 | 0.2820 | 40592 | 0.3220 |
| 40192 | 0.1225 | 40272 | 0.1625 | 40352 | 0.2025 | 40433 | 0.2425 | 40513 | 0.2825 | 40593 | 0.3225 |
| 40193 | 0.1230 | 40273 | 0.1630 | 40353 | 0.2030 | 40434 | 0.2430 | 40514 | 0.2830 | 20135 | 0.3230 |
| 40194 | 0.1235 | 40274 | 0.1635 | 40354 | 0.2035 | 40435 | 0.2435 | 40515 | 0.2835 | 40595 | 0.3235 |
| 20053 | 0.1240 | 40275 | 0.1640 | 20094 | 0.2040 | 40436 | 0.2440 | 40516 | 0.2840 | 40596 | 0.3240 |
| 40196 | 0.1245 | 40276 | 0.1645 | 40356 | 0.2045 | 40437 | 0.2445 | 40517 | 0.2845 | 40597 | 0.3245 |
| 20055 | 0.1250 | 40277 | 0.1650 | 40357 | 0.2050 | 40438 | 0.2450 | 40518 | 0.2850 | 40598 | 0.3250 |
| 40198 | 0.1255 | 40278 | 0.1655 | 20095 | 0.2055 | 40439 | 0.2455 | 40519 | 0.2855 | 40599 | 0.3255 |
| 20056 | 0.1260 | 20072 | 0.1660 | 40359 | 0.2060 | 20107 | 0.2460 | 40520 | 0.2860 | 40600 | 0.3260 |
| 40200 | 0.1265 | 40280 | 0.1665 | 40360 | 0.2065 | 40441 | 0.2465 | 40521 | 0.2865 | 40601 | 0.3265 |
| 40201 | 0.1270 | 40281 | 0.1670 | 40362 | 0.2070 | 40442 | 0.2470 | 40522 | 0.2870 | 40602 | 0.3270 |
| 40202 | 0.1275 | 40282 | 0.1675 | 40363 | 0.2075 | 40443 | 0.2475 | 40523 | 0.2875 | 40603 | 0.3275 |
| 40203 | 0.1280 | 40283 | 0.1680 | 40364 | 0.2080 | 40444 | 0.2480 | 40524 | 0.2880 | 40604 | 0.3280 |
| 20057 | 0.1285 | 40284 | 0.1685 | 40365 | 0.2085 | 40445 | 0.2485 | 40525 | 0.2885 | 40605 | 0.3285 |
| 40205 | 0.1290 | 40285 | 0.1690 | 20096 | 0.2090 | 20109 | 0.2490 | 40526 | 0.2890 | 40606 | 0.3290 |
| 40206 | 0.1295 | 20073 | 0.1695 | 40367 | 0.2095 | 40447 | 0.2495 | 40527 | 0.2895 | 40607 | 0.3295 |
| 40207 | 0.1300 | 40287 | 0.1700 | 40368 | 0.2100 | 20111 | 0.2500 | 20123 | 0.2900 | 40608 | 0.3300 |
| 40208 | 0.1305 | 40288 | 0.1705 | 40369 | 0.2105 | 40449 | 0.2505 | 40529 | 0.2905 | 40609 | 0.3305 |
| 40209 | 0.1310 | 40289 | 0.1710 | 40370 | 0.2110 | 20112 | 0.2510 | 40530 | 0.2910 | 40610 | 0.3310 |
| 40210 | 0.1315 | 40290 | 0.1715 | 40371 | 0.2115 | 40451 | 0.2515 | 40531 | 0.2915 | 40611 | 0.3315 |
| 40211 | 0.1320 | 40291 | 0.1720 | 40372 | 0.2120 | 40452 | 0.2520 | 40532 | 0.2920 | 20137 | 0.3320 |
| 40212 | 0.1325 | 40292 | 0.1725 | 40373 | 0.2125 | 40453 | 0.2525 | 40533 | 0.2925 | 40613 | 0.3325 |
| 40213 | 0.1330 | 20075 | 0.1730 | 20097 | 0.2130 | 40454 | 0.2530 | 40534 | 0.2930 | 40614 | 0.3330 |
| 40214 | 0.1335 | 40294 | 0.1735 | 40375 | 0.2135 | 40455 | 0.2535 | 40535 | 0.2935 | 40615 | 0.3335 |
| 40215 | 0.1340 | 40295 | 0.1740 | 40376 | 0.2140 | 40456 | 0.2540 | 40536 | 0.2940 | 40616 | 0.3340 |
| 40216 | 0.1345 | 40296 | 0.1745 | 40377 | 0.2145 | 40457 | 0.2545 | 40537 | 0.2945 | 40617 | 0.3345 |
| 40217 | 0.1350 | 40297 | 0.1750 | 40378 | 0.2150 | 40458 | 0.2550 | 20124 | 0.2950 | 40618 | 0.3350 |
| 40218 | 0.1355 | 40298 | 0.1755 | 40379 | 0.2155 | 40459 | 0.2555 | 40539 | 0.2955 | 40619 | 0.3355 |
| 20058 | 0.1360 | 40299 | 0.1760 | 40380 | 0.2160 | 40460 | 0.2560 | 40540 | 0.2960 | 40620 | 0.3360 |
| 40220 | 0.1365 | 40300 | 0.1765 | 20098 | 0.2165 | 40461 | 0.2565 | 40541 | 0.2965 | 40621 | 0.3365 |
| 40221 | 0.1370 | 20076 | 0.1770 | 40382 | 0.2170 | 20114 | 0.2570 | 40542 | 0.2970 | 40622 | 0.3370 |
| 40222 | 0.1375 | 40302 | 0.1775 | 40383 | 0.2175 | 40463 | 0.2575 | 40543 | 0.2975 | 40623 | 0.3375 |
| 40223 | 0.1380 | 40303 | 0.1780 | 40384 | 0.2180 | 40464 | 0.2580 | 40544 | 0.2980 | 40624 | 0.3380 |
| 40224 | 0.1385 | 40304 | 0.1785 | 40385 | 0.2185 | 40465 | 0.2585 | 40545 | 0.2985 | 40625 | 0.3385 |
| 40225 | 0.1390 | 40305 | 0.1790 | 40386 | 0.2190 | 40466 | 0.2590 | 40546 | 0.2990 | 20139 | 0.3390 |
| 40226 | 0.1395 | 40306 | 0.1795 | 40387 | 0.2195 | 40467 | 0.2595 | 40547 | 0.2995 | 40627 | 0.3395 |
| 40227 | 0.1400 | 20078 | 0.1800 | 40388 | 0.2200 | 40468 | 0.2600 | 40548 | 0.3000 | 40628 | 0.3400 |
| 20060 | 0.1405 | 40308 | 0.1805 | 40389 | 0.2205 | 40469 | 0.2605 | 40549 | 0.3005 | 40629 | 0.3405 |
| 40229 | 0.1410 | 40309 | 0.1810 | 20100 | 0.2210 | 20115 | 0.2610 | 40550 | 0.3010 | 40630 | 0.3410 |
| 40230 | 0.1415 | 40310 | 0.1815 | 40391 | 0.2215 | 40471 | 0.2615 | 40551 | 0.3015 | 40631 | 0.3415 |
| 40231 | 0.1420 | 20079 | 0.1820 | 40392 | 0.2220 | 40472 | 0.2620 | 20127 | 0.3020 | 40632 | 0.3420 |
| 40232 | 0.1425 | 40312 | 0.1825 | 40393 | 0.2225 | 40473 | 0.2625 | 40553 | 0.3025 | 40633 | 0.3425 |
| 40233 | 0.1430 | 40313 | 0.1830 | 40394 | 0.2230 | 40474 | 0.2630 | 40554 | 0.3030 | 40634 | 0.3430 |
| 40234 | 0.1435 | 40314 | 0.1835 | 40395 | 0.2235 | 40475 | 0.2635 | 40555 | 0.3035 | 40635 | 0.3435 |
| 20062 | 0.1440 | 40315 | 0.1840 | 40396 | 0.2240 | 40476 | 0.2640 | 40556 | 0.3040 | 40636 | 0.3440 |
| 40236 | 0.1445 | 40316 | 0.1845 | 40397 | 0.2245 | 40477 | 0.2645 | 40557 | 0.3045 | 40637 | 0.3445 |
| 40237 | 0.1450 | 20080 | 0.1850 | 40398 | 0.2250 | 40478 | 0.2650 | 40558 | 0.3050 | 40638 | 0.3450 |
| 40238 | 0.1455 | 40318 | 0.1855 | 40399 | 0.2255 | 40479 | 0.2655 | 40559 | 0.3055 | 40639 | 0.3455 |
| 40239 | 0.1460 | 40319 | 0.1860 | 40400 | 0.2260 | 20117 | 0.2660 | 40560 | 0.3060 | 40640 | 0.3460 |
| 40240 | 0.1465 | 20082 | 0.1865 | 40401 | 0.2265 | 40481 | 0.2665 | 40561 | 0.3065 | 40641 | 0.3465 |
| 20063 | 0.1470 | 40321 | 0.1870 | 40402 | 0.2270 | 40482 | 0.2670 | 40562 | 0.3070 | 40642 | 0.3470 |
| 40242 | 0.1475 | 20084 | 0.1875 | 40403 | 0.2275 | 40483 | 0.2675 | 40563 | 0.3075 | 40643 | 0.3475 |
| 40243 | 0.1480 | 40323 | 0.1880 | 20101 | 0.2280 | 40484 | 0.2680 | 40564 | 0.3080 | 20141 | 0.3480 |
| 40244 | 0.1485 | 20085 | 0.1885 | 40405 | 0.2285 | 40485 | 0.2685 | 40565 | 0.3085 | 40645 | 0.3485 |
| 40245 | 0.1490 | 20086 | 0.1890 | 40406 | 0.2290 | 40486 | 0.2690 | 40566 | 0.3090 | 40646 | 0.3490 |
| 20064 | 0.1495 | 40326 | 0.1895 | 40407 | 0.2295 | 40487 | 0.2695 | 40567 | 0.3095 | 40647 | 0.3495 |
| 40247 | 0.1500 | 40327 | 0.1900 | 40408 | 0.2300 | 40488 | 0.2700 | 40568 | 0.3100 | 40648 | 0.3500 |
| 40248 | 0.1505 | 40328 | 0.1905 | 40409 | 0.2305 | 40489 | 0.2705 | 40569 | 0.3105 | 40649 | 0.3505 |
| 40249 | 0.1510 | 20087 | 0.1910 | 40410 | 0.2310 | 40490 | 0.2710 | 40570 | 0.3110 | 40650 | 0.3510 |
| 40250 | 0.1515 | 40330 | 0.1915 | 40411 | 0.2315 | 40491 | 0.2715 | 20129 | 0.3115 | 40651 | 0.3515 |
| 20065 | 0.1520 | 40331 | 0.1920 | 40412 | 0.2320 | 20118 | 0.2720 | 40572 | 0.3120 | 40652 | 0.3520 |
| 40252 | 0.1525 | 40332 | 0.1925 | 40413 | 0.2325 | 40493 | 0.2725 | 20131 | 0.3125 | 40653 | 0.3525 |
| 40253 | 0.1530 | 40333 | 0.1930 | 40414 | 0.2330 | 40494 | 0.2730 | 40574 | 0.3130 | 40654 | 0.3530 |
| 40254 | 0.1535 | 20088 | 0.1935 | 40415 | 0.2335 | 40495 | 0.2735 | 20132 | 0.3135 | 40655 | 0.3535 |
| 20066 | 0.1540 | 40335 | 0.1940 | 20102 | 0.2340 | 40496 | 0.2740 | 40576 | 0.3140 | 40656 | 0.3540 |
| 40256 | 0.1545 | 40336 | 0.1945 | 40417 | 0.2345 | 40497 | 0.2745 | 40577 | 0.3145 | 40657 | 0.3545 |
| 40257 | 0.1550 | 40337 | 0.1950 | 40418 | 0.2350 | 40498 | 0.2750 | 20133 | 0.3150 | 40658 | 0.3550 |
| 40258 | 0.1555 | 40338 | 0.1955 | 40419 | 0.2355 | 40499 | 0.2755 | 40579 | 0.3155 | 40659 | 0.3555 |
| 40259 | 0.1560 | 20089 | 0.1960 | 40420 | 0.2360 | 40500 | 0.2760 | 40580 | 0.3160 | 40660 | 0.3560 |
| 40260 | 0.1565 | 40340 | 0.1965 | 40421 | 0.2365 | 40501 | 0.2765 | 40581 | 0.3165 | 40661 | 0.3565 |
| 20068 | 0.1570 | 40341 | 0.1970 | 40422 | 0.2370 | 20120 | 0.2770 | 40582 | 0.3170 | 40662 | 0.3570 |
| 20069 | 0.1575 | 40342 | 0.1975 | 40423 | 0.2375 | 40503 | 0.2775 | 40583 | 0.3175 | 40663 | 0.3575 |
| 40263 | 0.1580 | 40343 | 0.1980 | 20105 | 0.2380 | 40504 | 0.2780 | 40584 | 0.3180 | 20143 | 0.3580 |

Precision Ground Flutes to $\pm .0002$ - $.0000$



CHUCKING REAMERS

SPECIAL DECIMAL SIZES

HIGH SPEED STEEL, STRAIGHT SHANK
2270 Straight Flute, Right Hand Cut

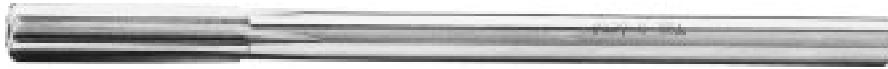
| EDP Number 2270 | Size | EDP Number 2270 | Size | EDP Number 2270 | Size | EDP Number 2270 | Size | EDP Number 2270 | Size | EDP Number 2270 | Size |
|--------------------|--------|--------------------|--------|--------------------|--------|--------------------|--------|--------------------|--------|--------------------|--------|
| 40665 | 0.3585 | 40713 | 0.3825 | 40761 | 0.4065 | 40809 | 0.4305 | 40857 | 0.4545 | 40905 | 0.4785 |
| 40666 | 0.3590 | 40714 | 0.3830 | 40762 | 0.4070 | 40810 | 0.4310 | 40858 | 0.4550 | 40906 | 0.4790 |
| 40667 | 0.3595 | 40715 | 0.3835 | 40763 | 0.4075 | 40811 | 0.4315 | 40859 | 0.4555 | 40907 | 0.4795 |
| 40668 | 0.3600 | 40716 | 0.3840 | 40764 | 0.4080 | 40812 | 0.4320 | 40860 | 0.4560 | 40908 | 0.4800 |
| 40669 | 0.3605 | 40717 | 0.3845 | 40765 | 0.4085 | 40813 | 0.4325 | 40861 | 0.4565 | 40909 | 0.4805 |
| 40670 | 0.3610 | 40718 | 0.3850 | 40766 | 0.4090 | 40814 | 0.4330 | 40862 | 0.4570 | 40910 | 0.4810 |
| 40671 | 0.3615 | 40719 | 0.3855 | 40767 | 0.4095 | 40815 | 0.4335 | 40863 | 0.4575 | 40911 | 0.4815 |
| 40672 | 0.3620 | 20153 | 0.3860 | 40768 | 0.4100 | 40816 | 0.4340 | 40864 | 0.4580 | 40912 | 0.4820 |
| 40673 | 0.3625 | 40721 | 0.3865 | 40769 | 0.4105 | 40817 | 0.4345 | 40865 | 0.4585 | 40913 | 0.4825 |
| 40674 | 0.3630 | 40722 | 0.3870 | 40770 | 0.4110 | 40818 | 0.4350 | 40866 | 0.4590 | 40914 | 0.4830 |
| 40675 | 0.3635 | 40723 | 0.3875 | 40771 | 0.4115 | 40819 | 0.4355 | 40867 | 0.4595 | 40915 | 0.4835 |
| 40676 | 0.3640 | 40724 | 0.3880 | 40772 | 0.4120 | 40820 | 0.4360 | 40868 | 0.4600 | 40916 | 0.4840 |
| 40677 | 0.3645 | 40725 | 0.3885 | 40773 | 0.4125 | 20164 | 0.4365 | 40869 | 0.4605 | 40917 | 0.4845 |
| 40678 | 0.3650 | 40726 | 0.3890 | 20159 | 0.4130 | 40822 | 0.4370 | 40870 | 0.4610 | 40918 | 0.4850 |
| 40679 | 0.3655 | 40727 | 0.3895 | 40775 | 0.4135 | 20166 | 0.4375 | 40871 | 0.4615 | 40919 | 0.4855 |
| 40680 | 0.3660 | 40728 | 0.3900 | 40776 | 0.4140 | 40824 | 0.4380 | 40872 | 0.4620 | 40920 | 0.4860 |
| 40681 | 0.3665 | 40729 | 0.3905 | 40777 | 0.4145 | 20167 | 0.4385 | 40873 | 0.4625 | 40921 | 0.4865 |
| 40682 | 0.3670 | 40730 | 0.3910 | 40778 | 0.4150 | 40826 | 0.4390 | 40874 | 0.4630 | 40922 | 0.4870 |
| 40683 | 0.3675 | 40731 | 0.3915 | 40779 | 0.4155 | 40827 | 0.4395 | 40875 | 0.4635 | 40923 | 0.4875 |
| 20145 | 0.3680 | 40732 | 0.3920 | 40780 | 0.4160 | 40828 | 0.4400 | 40876 | 0.4640 | 40924 | 0.4880 |
| 40685 | 0.3685 | 40733 | 0.3925 | 40781 | 0.4165 | 40829 | 0.4405 | 40877 | 0.4645 | 40925 | 0.4885 |
| 40686 | 0.3690 | 40734 | 0.3930 | 40782 | 0.4170 | 40830 | 0.4410 | 40878 | 0.4650 | 40926 | 0.4890 |
| 40687 | 0.3695 | 40735 | 0.3935 | 40783 | 0.4175 | 40831 | 0.4415 | 40879 | 0.4655 | 40927 | 0.4895 |
| 40688 | 0.3700 | 40736 | 0.3940 | 40784 | 0.4180 | 40832 | 0.4420 | 40880 | 0.4660 | 40928 | 0.4900 |
| 40689 | 0.3705 | 40737 | 0.3945 | 40785 | 0.4185 | 40833 | 0.4425 | 40881 | 0.4665 | 40929 | 0.4905 |
| 40690 | 0.3710 | 40738 | 0.3950 | 40786 | 0.4190 | 40834 | 0.4430 | 40882 | 0.4670 | 40930 | 0.4910 |
| 40691 | 0.3715 | 40739 | 0.3955 | 40787 | 0.4195 | 40835 | 0.4435 | 40883 | 0.4675 | 40931 | 0.4915 |
| 40692 | 0.3720 | 40740 | 0.3960 | 40788 | 0.4200 | 40836 | 0.4440 | 40884 | 0.4680 | 40932 | 0.4920 |
| 40693 | 0.3725 | 40741 | 0.3965 | 40789 | 0.4205 | 40837 | 0.4445 | 40885 | 0.4685 | 40933 | 0.4925 |
| 40694 | 0.3730 | 20156 | 0.3970 | 40790 | 0.4210 | 40838 | 0.4450 | 40886 | 0.4690 | 40934 | 0.4930 |
| 40695 | 0.3735 | 40743 | 0.3975 | 40791 | 0.4215 | 40839 | 0.4455 | 40887 | 0.4695 | 40935 | 0.4935 |
| 20148 | 0.3740 | 40744 | 0.3980 | 40792 | 0.4220 | 40840 | 0.4460 | 40888 | 0.4700 | 40936 | 0.4940 |
| 40697 | 0.3745 | 40745 | 0.3985 | 40793 | 0.4225 | 40841 | 0.4465 | 40889 | 0.4705 | 40937 | 0.4945 |
| 20150 | 0.3750 | 40746 | 0.3990 | 40794 | 0.4230 | 40842 | 0.4470 | 40890 | 0.4710 | 40938 | 0.4950 |
| 40699 | 0.3755 | 40747 | 0.3995 | 40795 | 0.4235 | 40843 | 0.4475 | 40891 | 0.4715 | 40939 | 0.4955 |
| 20151 | 0.3760 | 40748 | 0.4000 | 40796 | 0.4240 | 40844 | 0.4480 | 40892 | 0.4720 | 40940 | 0.4960 |
| 40701 | 0.3765 | 40749 | 0.4005 | 40797 | 0.4245 | 40845 | 0.4485 | 40893 | 0.4725 | 40941 | 0.4965 |
| 20152 | 0.3770 | 40750 | 0.4010 | 40798 | 0.4250 | 40846 | 0.4490 | 40894 | 0.4730 | 40942 | 0.4970 |
| 40703 | 0.3775 | 40751 | 0.4015 | 40799 | 0.4255 | 40847 | 0.4495 | 40895 | 0.4735 | 40943 | 0.4975 |
| 40704 | 0.3780 | 40752 | 0.4020 | 40800 | 0.4260 | 40848 | 0.4500 | 40896 | 0.4740 | 40944 | 0.4980 |
| 40705 | 0.3785 | 40753 | 0.4025 | 40801 | 0.4265 | 40849 | 0.4505 | 40897 | 0.4745 | 40945 | 0.4985 |
| 40706 | 0.3790 | 40754 | 0.4030 | 40802 | 0.4270 | 40850 | 0.4510 | 40898 | 0.4750 | 20175 | 0.4990 |
| 40707 | 0.3795 | 40755 | 0.4035 | 40803 | 0.4275 | 40851 | 0.4515 | 40899 | 0.4755 | 40947 | 0.4995 |
| 40708 | 0.3800 | 20157 | 0.4040 | 40804 | 0.4280 | 40852 | 0.4520 | 40900 | 0.4760 | | |
| 40709 | 0.3805 | 40757 | 0.4045 | 40805 | 0.4285 | 40853 | 0.4525 | 40901 | 0.4765 | | |
| 40710 | 0.3810 | 40758 | 0.4050 | 40806 | 0.4290 | 40854 | 0.4530 | 40902 | 0.4770 | | |
| 40711 | 0.3815 | 40759 | 0.4055 | 40807 | 0.4295 | 40855 | 0.4535 | 40903 | 0.4775 | | |
| 40712 | 0.3820 | 40760 | 0.4060 | 40808 | 0.4300 | 40856 | 0.4540 | 40904 | 0.4780 | | |

Precision Ground Flutes to $\pm .0002$ $-.0000$

CHUCKING REAMERS

METRIC SIZES

HIGH SPEED STEEL, STRAIGHT SHANK
2270 Straight Flute, Right Hand Cut



| EDP Number | Decimal Equiv. | MM | List Price | EDP Number | Decimal Equiv. | MM | List Price | EDP Number | Decimal Equiv. | MM | List Price | EDP Number | Decimal Equiv. | MM | List Price |
|------------|----------------|------|------------|------------|----------------|------|------------|------------|----------------|------|------------|------------|----------------|------|------------|
| 40003 | 0.0295 | .75 | 16.20 | 44008 | 0.0472 | 1.2 | 13.10 | 40074 | 0.0650 | 1.65 | 10.70 | 44024 | 0.0827 | 2.1 | 11.40 |
| 40007 | 0.0315 | .8 | 12.70 | 44009 | 0.0492 | 1.25 | 13.10 | 44017 | 0.0669 | 1.7 | 11.90 | 44025 | 0.0846 | 2.15 | 11.40 |
| 40011 | 0.0335 | .85 | 12.70 | 44010 | 0.0512 | 1.3 | 13.10 | 44018 | 0.0689 | 1.75 | 11.90 | 44026 | 0.0866 | 2.2 | 11.40 |
| 44003 | 0.0354 | .9 | 13.30 | 44011 | 0.0531 | 1.35 | 13.10 | 44019 | 0.0709 | 1.8 | 11.90 | 44027 | 0.0886 | 2.25 | 11.40 |
| 44004 | 0.0374 | .95 | 13.30 | 44012 | 0.0551 | 1.4 | 13.10 | 44020 | 0.0728 | 1.85 | 11.90 | 44028 | 0.0906 | 2.3 | 11.40 |
| 20012 | 0.0394 | 1 | 10.80 | 44013 | 0.0571 | 1.45 | 13.10 | 44021 | 0.0748 | 1.9 | 11.90 | 40129 | 0.0925 | 2.35 | 9.60 |
| 44005 | 0.0413 | 1.05 | 13.30 | 20021 | 0.0591 | 1.5 | 10.80 | 44022 | 0.0768 | 1.95 | 11.30 | 40133 | 0.0945 | 2.4 | 10.30 |
| 44006 | 0.0433 | 1.1 | 13.30 | 40066 | 0.0610 | 1.55 | 11.70 | 20031 | 0.0787 | 2 | 8.80 | 40137 | 0.0965 | 2.45 | 10.30 |
| 44007 | 0.0453 | 1.15 | 13.30 | 40070 | 0.0630 | 1.6 | 10.70 | 44023 | 0.0807 | 2.05 | 11.50 | 20040 | 0.0984 | 2.5 | 8.90 |

Precision Ground Flutes to $\pm .0002$ $-.0000$

CHUCKING REAMERS



METRIC SIZES

HIGH SPEED STEEL, STRAIGHT SHANK
2270 Straight Flute, Right Hand Cut

| EDP Number | Decimal Equiv. | MM | List Price | EDP Number | Decimal Equiv. | MM | List Price | EDP Number | Decimal Equiv. | MM | List Price | EDP Number | Decimal Equiv. | MM | List Price |
|------------|----------------|------|------------|------------|----------------|------|------------|------------|----------------|------|------------|------------|----------------|------|------------|
| 44032 | 0.1024 | 2.6 | 12.00 | 44064 | 0.2244 | 5.7 | 14.60 | 40637 | 0.3445 | 8.75 | 17.30 | 20205 | 0.8268 | 21 | 40.90 |
| 44033 | 0.1063 | 2.7 | 12.00 | 44065 | 0.2264 | 5.75 | 14.60 | 40641 | 0.3465 | 8.8 | 17.30 | 20207 | 0.8465 | 21.5 | 47.70 |
| 44034 | 0.1083 | 2.75 | 12.00 | 44066 | 0.2283 | 5.8 | 14.60 | 44098 | 0.3504 | 8.9 | 18.20 | 20208 | 0.8661 | 22 | 47.70 |
| 44035 | 0.1102 | 2.8 | 12.00 | 44067 | 0.2323 | 5.9 | 14.60 | 20142 | 0.3543 | 9 | 16.00 | 20210 | 0.8858 | 22.5 | 48.70 |
| 44036 | 0.1142 | 2.9 | 12.00 | 20104 | 0.2362 | 6 | 13.50 | 44099 | 0.3583 | 9.1 | 18.20 | 20211 | 0.9055 | 23 | 48.70 |
| 20050 | 0.1181 | 3 | 8.80 | 44068 | 0.2402 | 6.1 | 14.60 | 44100 | 0.3622 | 9.2 | 18.20 | 20213 | 0.9252 | 23.5 | 51.70 |
| 40191 | 0.1220 | 3.1 | 8.30 | 44069 | 0.2441 | 6.2 | 14.60 | 44101 | 0.3642 | 9.25 | 18.20 | 20215 | 0.9449 | 24 | 52.20 |
| 20056 | 0.1260 | 3.2 | 8.80 | 44070 | 0.2461 | 6.25 | 14.60 | 44102 | 0.3661 | 9.3 | 18.20 | 20216 | 0.9646 | 24.5 | 52.20 |
| 40203 | 0.1280 | 3.25 | 12.20 | 40444 | 0.2480 | 6.3 | 12.40 | 44103 | 0.3701 | 9.4 | 18.20 | 20218 | 0.9843 | 25 | 55.50 |
| 44040 | 0.1299 | 3.3 | 12.00 | 40452 | 0.2520 | 6.4 | 15.60 | 20148 | 0.3740 | 9.5 | 15.40 | 44109 | 1.0039 | 25.5 | 65.70 |
| 44041 | 0.1339 | 3.4 | 12.00 | 20113 | 0.2559 | 6.5 | 13.40 | 40704 | 0.3780 | 9.6 | 18.00 | 44110 | 1.0236 | 26 | 65.70 |
| 20059 | 0.1378 | 3.5 | 10.40 | 44074 | 0.2598 | 6.6 | 16.70 | 44105 | 0.3819 | 9.7 | 20.30 | 44111 | 1.0433 | 26.5 | 65.70 |
| 44042 | 0.1417 | 3.6 | 12.00 | 44075 | 0.2638 | 6.7 | 16.70 | 44106 | 0.3839 | 9.75 | 20.30 | 44112 | 1.0630 | 27 | 74.10 |
| 44043 | 0.1457 | 3.7 | 12.00 | 44076 | 0.2657 | 6.75 | 16.70 | 44107 | 0.3858 | 9.8 | 20.30 | 44113 | 1.0827 | 27.5 | 74.10 |
| 44044 | 0.1476 | 3.75 | 12.00 | 44077 | 0.2677 | 6.8 | 16.70 | 44108 | 0.3898 | 9.9 | 20.30 | 44114 | 1.1024 | 28 | 74.10 |
| 44045 | 0.1496 | 3.8 | 12.00 | 44078 | 0.2717 | 6.9 | 16.70 | 20155 | 0.3937 | 10 | 17.50 | 44115 | 1.1220 | 28.5 | 74.10 |
| 40254 | 0.1535 | 3.9 | 11.30 | 20119 | 0.2756 | 7 | 15.10 | 20160 | 0.4134 | 10.5 | 18.20 | 44116 | 1.1417 | 29 | 80.00 |
| 20069 | 0.1575 | 4 | 10.40 | 40507 | 0.2795 | 7.1 | 15.60 | 20162 | 0.4331 | 11 | 18.20 | 44117 | 1.1614 | 29.5 | 80.00 |
| 44047 | 0.1614 | 4.1 | 12.00 | 40515 | 0.2835 | 7.2 | 16.30 | 20168 | 0.4528 | 11.5 | 19.80 | 44118 | 1.1811 | 30 | 80.00 |
| 44048 | 0.1654 | 4.2 | 12.00 | 44081 | 0.2854 | 7.25 | 16.70 | 20171 | 0.4724 | 12 | 19.80 | 44119 | 1.2008 | 30.5 | 87.30 |
| 44049 | 0.1673 | 4.25 | 12.00 | 44082 | 0.2874 | 7.3 | 16.70 | 20173 | 0.4921 | 12.5 | 19.80 | 44120 | 1.2205 | 31 | 87.30 |
| 44050 | 0.1693 | 4.3 | 12.00 | 44083 | 0.2913 | 7.4 | 16.70 | 20179 | 0.5118 | 13 | 23.90 | 44121 | 1.2402 | 31.5 | 87.30 |
| 44051 | 0.1732 | 4.4 | 12.00 | 20125 | 0.2953 | 7.5 | 15.10 | 20181 | 0.5315 | 13.5 | 23.90 | 44122 | 1.2598 | 32 | 95.10 |
| 20077 | 0.1772 | 4.5 | 11.00 | 44084 | 0.2992 | 7.6 | 16.70 | 20182 | 0.5512 | 14 | 23.90 | 44123 | 1.2795 | 32.5 | 95.10 |
| 44053 | 0.1811 | 4.6 | 12.00 | 44085 | 0.3031 | 7.7 | 16.70 | 20184 | 0.5709 | 14.5 | 24.60 | 44124 | 1.2992 | 33 | 95.10 |
| 20080 | 0.1850 | 4.7 | 11.00 | 44086 | 0.3051 | 7.75 | 16.70 | 20185 | 0.5906 | 15 | 24.60 | 44125 | 1.3189 | 33.5 | 95.10 |
| 40321 | 0.1870 | 4.75 | 11.00 | 44087 | 0.3071 | 7.8 | 16.70 | 20187 | 0.6102 | 15.5 | 28.50 | 44126 | 1.3386 | 34 | 95.10 |
| 20086 | 0.1890 | 4.8 | 11.00 | 40570 | 0.3110 | 7.9 | 14.60 | 20189 | 0.6299 | 16 | 28.50 | 44127 | 1.3583 | 34.5 | 95.10 |
| 44057 | 0.1929 | 4.9 | 14.60 | 20133 | 0.3150 | 8 | 15.10 | 20190 | 0.6496 | 16.5 | 28.50 | 44128 | 1.3780 | 35 | 104.60 |
| 20090 | 0.1968 | 5 | 12.40 | 44089 | 0.3189 | 8.1 | 16.70 | 20192 | 0.6693 | 17 | 31.90 | 44129 | 1.3976 | 35.5 | 104.60 |
| 44058 | 0.2008 | 5.1 | 14.60 | 44090 | 0.3228 | 8.2 | 16.70 | 20194 | 0.6890 | 17.5 | 34.50 | 44130 | 1.4173 | 36 | 104.60 |
| 44059 | 0.2047 | 5.2 | 14.60 | 44091 | 0.3248 | 8.25 | 16.70 | 20195 | 0.7087 | 18 | 34.50 | 44131 | 1.4370 | 36.5 | 104.60 |
| 44060 | 0.2067 | 5.25 | 14.60 | 44092 | 0.3268 | 8.3 | 16.70 | 20197 | 0.7283 | 18.5 | 35.90 | 44132 | 1.4567 | 37 | 104.60 |
| 44061 | 0.2087 | 5.3 | 14.60 | 44093 | 0.3307 | 8.4 | 18.20 | 20198 | 0.7480 | 19 | 39.70 | 44133 | 1.4764 | 37.5 | 104.60 |
| 44062 | 0.2126 | 5.4 | 14.60 | 20138 | 0.3346 | 8.5 | 16.00 | 20200 | 0.7677 | 19.5 | 38.30 | 44134 | 1.4961 | 38 | 104.60 |
| 20098 | 0.2165 | 5.5 | 12.50 | 44094 | 0.3386 | 8.6 | 18.20 | 20202 | 0.7874 | 20 | 40.90 | | | | |
| 40389 | 0.2205 | 5.6 | 14.10 | 40633 | 0.3425 | 8.7 | 17.30 | 20203 | 0.8071 | 20.5 | 40.90 | | | | |

Precision Ground Flutes to +.0002 -.0000

CHUCKING REAMERS SETS

HIGH SPEED STEEL, STRAIGHT SHANK
2270 Straight Flute, Right Hand Cut



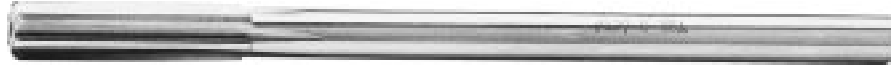
| EDP Number Sets | Range | Number of Reamers | Case | List Price Sets | EDP Number Sets | Range | Number of Reamers | Case | List Price Sets |
|-----------------|--------------------------|-------------------|-------|-----------------|-----------------|-----------------|-------------------|-------|-----------------|
| 29053 | 1/16" thru 1/4" by 1/64" | 13 | Steel | 203.60 | 29065 | A thru Z | 26 | Steel | 501.40 |
| 29054 | 1/16" thru 1/2" by 1/64" | 29 | Steel | 501.40 | 29068 | o/u.1240-.5010 | 14 | Steel | 255.80 |
| 29056 | 1/16" thru 3/8" by 1/64" | 21 | Steel | 321.90 | 29069 | d-p.1230.4995 | 14 | Steel | 309.10 |
| 29058 | 1/16" thru 1/2" by 1/32" | 15 | Steel | 241.70 | 29072 | Metric 1MM-13MM | 25 | Steel | 464.40 |
| 29062 | #1 thru #60 | 60 | Steel | 772.40 | 29075 | Metric 1MM-7MM | 13 | Wood | 198.50 |

Precision Ground Flutes to +.0002 -.0000



CHUCKING REAMERS

SPECIAL DECIMAL
HIGH SPEED STEEL, STRAIGHT SHANK
2270 Straight Flute, Right Hand Cut



Flute Configuration For Series 2270 Chucking Reamers.
 4 Flutes .0280-.1561 Diameter
 6 Flutes .1562-.5220 Diameter
 8 Flutes .5221-.8820 Diameter
 10 Flutes .8821-1.1950 Diameter
 12 Flutes 1.1951-1.5000 Diameter

| EDP Number | Diameter Range | 1 | 2 | 3 | 4-5 | 6-11 | 12-23 | 24-35 | 36-47 | 48-59 | 60-71 | 72-95 | 96-119 |
|------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| - | .0295-.0305 | 46.50 | 36.50 | 31.90 | 28.90 | 22.60 | 18.70 | 18.30 | 16.20 | 15.50 | 15.30 | 15.10 | 15.10 |
| - | .0306-.0395 | 42.70 | 32.80 | 28.10 | 25.10 | 19.10 | 15.30 | 14.80 | 12.70 | 12.30 | 12.40 | 12.00 | 11.90 |
| - | .0396-.0625 | 41.50 | 31.50 | 27.00 | 24.10 | 17.80 | 14.20 | 13.60 | 11.70 | 11.30 | 11.00 | 10.90 | 10.80 |
| - | .0626-.0781 | 40.40 | 30.40 | 25.30 | 23.10 | 16.80 | 13.10 | 12.60 | 10.70 | 10.30 | 10.10 | 10.00 | 9.90 |
| - | .0782-.0938 | 39.00 | 29.00 | 24.50 | 21.80 | 15.50 | 11.90 | 11.40 | 9.60 | 9.20 | 9.00 | 8.90 | 8.80 |
| - | .0939-.1094 | 38.90 | 29.20 | 24.40 | 22.30 | 16.10 | 12.60 | 12.20 | 10.30 | 9.90 | 9.80 | 9.60 | 9.50 |
| - | .1095-.1250 | 36.50 | 26.90 | 22.50 | 19.80 | 14.00 | 14.00 | 10.00 | 8.30 | 7.90 | 7.70 | 7.60 | 7.50 |
| - | .1251-.1406 | 41.10 | 31.40 | 27.10 | 24.50 | 18.10 | 14.60 | 14.20 | 12.20 | 11.80 | 11.60 | 11.50 | 11.30 |
| - | .1407-.1562 | 40.00 | 30.40 | 25.90 | 23.30 | 17.20 | 13.60 | 13.10 | 11.30 | 10.80 | 10.70 | 10.50 | 10.40 |
| - | .1563-.1719 | 41.10 | 31.40 | 27.10 | 24.50 | 18.10 | 14.60 | 14.20 | 12.20 | 11.80 | 11.60 | 11.50 | 11.40 |
| - | .1720-.1875 | 39.50 | 29.90 | 25.50 | 22.90 | 16.80 | 13.20 | 12.80 | 11.00 | 10.50 | 10.30 | 10.20 | 10.10 |
| - | .1876-.2031 | 43.30 | 33.60 | 29.20 | 26.60 | 20.20 | 16.70 | 16.20 | 14.10 | 13.60 | 13.40 | 13.30 | 13.20 |
| - | .2032-.2188 | 42.90 | 33.20 | 28.80 | 26.20 | 19.80 | 16.20 | 15.80 | 13.60 | 13.20 | 13.00 | 12.90 | 12.80 |
| - | .2189-.2344 | 43.30 | 33.60 | 29.20 | 26.60 | 20.20 | 16.70 | 16.20 | 14.10 | 13.60 | 13.40 | 13.30 | 13.20 |
| - | .2345-.2500 | 41.30 | 31.60 | 27.30 | 24.70 | 18.40 | 14.80 | 14.40 | 12.40 | 12.00 | 11.80 | 11.70 | 11.60 |
| - | .2501-.2812 | 45.30 | 35.70 | 31.20 | 28.60 | 22.00 | 18.40 | 18.00 | 15.60 | 15.20 | 15.10 | 14.90 | 14.80 |
| - | .2813-.2969 | 46.20 | 36.50 | 32.10 | 29.50 | 22.80 | 19.30 | 18.80 | 16.30 | 15.90 | 15.80 | 15.60 | 15.50 |
| - | .2970-.3125 | 43.90 | 34.30 | 29.90 | 27.30 | 20.80 | 17.30 | 16.80 | 14.60 | 14.20 | 14.00 | 13.90 | 13.70 |
| - | .3126-.3594 | 47.20 | 37.60 | 33.20 | 30.60 | 23.80 | 20.30 | 19.80 | 17.30 | 16.90 | 16.70 | 16.60 | 16.50 |
| - | .3595-.3750 | 45.10 | 35.40 | 31.00 | 28.40 | 21.80 | 18.20 | 17.80 | 15.50 | 15.10 | 14.90 | 14.70 | 14.60 |
| - | .3751-.3906 | 48.20 | 38.50 | 34.10 | 31.40 | 24.60 | 21.00 | 20.60 | 18.00 | 17.60 | 17.50 | 17.30 | 17.20 |
| - | .3907-.4062 | 49.00 | 39.30 | 35.00 | 32.40 | 25.40 | 21.90 | 21.40 | 18.70 | 18.30 | 18.20 | 18.00 | 17.90 |
| - | .4063-.4219 | 50.00 | 40.50 | 36.00 | 33.40 | 26.40 | 22.90 | 22.50 | 19.70 | 19.30 | 19.10 | 18.90 | 18.80 |
| - | .4220-.4375 | 48.20 | 38.50 | 34.10 | 31.40 | 24.60 | 21.00 | 20.60 | 18.00 | 17.60 | 17.50 | 17.30 | 17.20 |
| - | .4376-.4531 | 52.50 | 42.90 | 38.50 | 35.80 | 28.60 | 25.10 | 24.70 | 21.70 | 21.20 | 21.10 | 20.90 | 20.80 |
| - | .4532-.4688 | 52.10 | 42.30 | 38.10 | 35.40 | 28.20 | 24.70 | 24.30 | 21.30 | 20.90 | 20.70 | 20.60 | 20.50 |
| - | .4689-.4844 | 52.50 | 42.90 | 38.50 | 35.80 | 28.60 | 25.10 | 24.70 | 21.70 | 21.20 | 21.10 | 20.90 | 20.80 |
| - | .4845-.5000 | 49.90 | 40.30 | 35.80 | 33.20 | 26.20 | 22.70 | 22.20 | 19.50 | 19.10 | 18.90 | 18.70 | 18.60 |
| - | .5001-.5312 | 55.30 | 45.80 | 41.30 | 38.70 | 31.20 | 27.70 | 27.30 | 24.00 | 23.60 | 23.50 | 23.30 | 23.20 |
| - | .5313-.5626 | 54.90 | 45.30 | 40.90 | 38.30 | 30.90 | 27.30 | 26.90 | 23.70 | 23.30 | 23.10 | 23.00 | 22.80 |
| - | .5627-.6250 | 58.90 | 49.20 | 44.80 | 42.10 | 34.40 | 30.90 | 30.50 | 27.00 | 26.50 | 26.30 | 26.20 | 26.20 |
| - | .6251-.6562 | 63.70 | 54.00 | 49.60 | 47.00 | 38.80 | 35.40 | 34.90 | 31.00 | 30.60 | 30.50 | 30.30 | 30.20 |
| - | .6563-.6875 | 63.30 | 53.60 | 49.20 | 46.60 | 38.50 | 35.00 | 34.40 | 30.60 | 30.30 | 30.10 | 29.90 | 29.90 |
| - | .6876-.7188 | 69.00 | 59.30 | 54.90 | 52.30 | 43.70 | 40.20 | 39.70 | 35.40 | 35.00 | 34.90 | 34.70 | 34.70 |
| - | .7189-.7500 | 67.40 | 57.70 | 53.50 | 50.80 | 42.30 | 38.80 | 38.30 | 34.10 | 33.70 | 33.50 | 33.40 | 33.30 |
| - | .7501-.8125 | 73.90 | 64.20 | 59.80 | 57.10 | 48.20 | 44.60 | 44.10 | 39.40 | 39.00 | 38.70 | 38.70 | 38.60 |
| - | .8126-.8438 | 79.70 | 70.10 | 65.60 | 63.00 | 53.60 | 50.00 | 49.50 | 44.30 | 43.90 | 43.80 | 43.60 | 43.60 |
| - | .8439-.8750 | 78.90 | 69.20 | 64.80 | 62.10 | 52.70 | 49.20 | 48.80 | 43.60 | 43.40 | 43.00 | 42.90 | 42.80 |
| - | .8751-.9375 | 85.20 | 75.50 | 71.20 | 68.60 | 57.20 | 55.10 | 54.60 | 49.00 | 48.60 | 48.30 | 48.20 | 48.10 |
| - | .9376-.9688 | 92.10 | 82.40 | 77.90 | 75.40 | 64.80 | 61.40 | 60.90 | 54.60 | 54.20 | 54.00 | 53.90 | 53.80 |
| - | .9689-1.0000 | 91.50 | 81.90 | 77.60 | 74.90 | 64.40 | 60.90 | 60.40 | 54.20 | 53.80 | 53.70 | 53.60 | 53.40 |
| - | 1.0001-1.0625 | 100.40 | 90.70 | 86.30 | 83.70 | 72.50 | 69.00 | 68.60 | 61.60 | 61.20 | 61.00 | 60.90 | 60.80 |
| - | 1.0626-1.1250 | 105.90 | 96.20 | 91.70 | 89.10 | 77.40 | 74.00 | 73.50 | 66.10 | 65.70 | 65.50 | 65.40 | 65.30 |
| - | 1.1251-1.1875 | 115.00 | 105.40 | 100.90 | 98.40 | 86.00 | 82.40 | 82.00 | 73.80 | 73.30 | 73.20 | 73.10 | 73.00 |
| - | 1.1876-1.2500 | 124.10 | 114.40 | 110.10 | 107.00 | 94.10 | 90.70 | 90.40 | 81.20 | 80.80 | 80.60 | 80.50 | 80.40 |
| - | 1.2501-1.3750 | 143.10 | 133.00 | 129.10 | 126.40 | 111.70 | 108.20 | 107.80 | 97.30 | 96.70 | 96.60 | 96.50 | 96.40 |
| - | 1.3751-1.4375 | 153.20 | 143.60 | 139.20 | 136.60 | 121.00 | 117.40 | 117.00 | 105.70 | 105.30 | 105.00 | 104.90 | 104.70 |
| - | 1.4376-1.5000 | 163.30 | 153.70 | 149.30 | 146.70 | 128.10 | 126.70 | 126.30 | 114.10 | 113.70 | 113.40 | 113.30 | 113.20 |

Precision Ground Flutes to $\pm .0002$ - $.0000$

CAPSCREW COUNTERBORES

HIGH SPEED STEEL

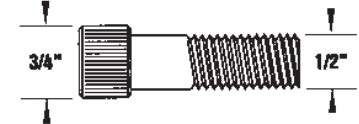
Series 5000 (On Size), Series 4000 (1/64 Oversize), Series 3000 (1/32 Oversize)



| EDP Number | Series | Screw Size | Pilot Size | Pilot Length | Flute Size | Flute Length | Shank Dia. | Overall Length | List Price |
|------------|--------|------------|------------|--------------|------------|--------------|------------|----------------|------------|
| 53000 | 5000 | | .1120 | | .1860 | | | | 17.00 |
| 53001 | 4000 | 4-40 | .1270 | 5/32 | .2020 | 11/16 | .1562 | 3-7/8 | 17.00 |
| 53002 | 3000 | | .1430 | | .2180 | | | | 17.00 |
| 53003 | 5000 | | .1250 | | .2050 | | | | 17.00 |
| 53004 | 4000 | 5-40 | .1400 | 3/16 | .2210 | 11/16 | .1875 | 4-1/8 | 17.00 |
| 53005 | 3000 | | .1560 | | .2370 | | | | 17.00 |
| 53006 | 5000 | | .1380 | | .2280 | | | | 17.90 |
| 53007 | 4000 | 6-32 | .1530 | 7/32 | .2440 | 7/8 | .2188 | 4-5/8 | 17.90 |
| 53008 | 3000 | | .1690 | | .2600 | | | | 17.90 |
| 53009 | 5000 | | .1640 | | .2720 | | | | 19.40 |
| 53010 | 4000 | 8-32 | .1790 | 1/4 | .2880 | 15/16 | .2500 | 5 | 19.40 |
| 53011 | 3000 | | .1950 | | .3040 | | | | 19.40 |
| 53012 | 5000 | | .1900 | | .3140 | | | | 19.40 |
| 53013 | 4000 | 10-32 | .2050 | 9/32 | .3300 | 1-1/8 | .2812 | 5-1/4 | 19.40 |
| 53014 | 3000 | | .2210 | | .3460 | | | | 19.40 |
| 53015 | 5000 | | .2500 | | .3820 | | | | 20.60 |
| 53016 | 4000 | 1/4 | .2650 | 5/16 | .3980 | 1-5/16 | .3125 | 5-5/8 | 20.60 |
| 53017 | 3000 | | .2810 | | .4140 | | | | 20.60 |
| 53018 | 5000 | | .3125 | | .4750 | | | | 25.90 |
| 53019 | 4000 | 5/16 | .3280 | 3/8 | .4910 | 1-5/16 | .3750 | 6-1/8 | 25.90 |
| 53020 | 3000 | | .3430 | | .5070 | | | | 25.90 |
| 53021 | 5000 | | .3750 | | .5720 | | | | 28.80 |
| 53022 | 4000 | 3/8 | .3900 | 1/2 | .5880 | 1-5/8 | .5000 | 6-1/2 | 28.80 |
| 53023 | 3000 | | .4060 | | .6040 | | | | 28.80 |
| 53024 | 5000 | | .4375 | | .6630 | | | | 34.50 |
| 53025 | 4000 | 7/16 | .4520 | 1/2 | .6790 | 1-11/16 | .5000 | 7 | 34.50 |
| 53026 | 3000 | | .4680 | | .6950 | | | | 34.50 |
| 53027 | 5000 | | .5000 | | .7570 | | | | 39.40 |
| 53028 | 4000 | 1/2 | .5150 | 1/2 | .7730 | 2 | .5000 | 7-1/2 | 39.40 |
| 53029 | 3000 | | .5310 | | .7890 | | | | 39.40 |
| 53030 | 5000 | | .6250 | | .9450 | | | | 64.40 |
| 53031 | 4000 | 5/8 | .6400 | 5/8 | .9610 | 2 | .6250 | 7-5/8 | 64.40 |
| 53032 | 3000 | | .6560 | | .9770 | | | | 64.40 |
| 53033 | 5000 | | .7500 | | 1.1330 | | | | 75.00 |
| 53034 | 4000 | 3/4 | .7650 | 3/4 | 1.1490 | 2-1/8 | .7500 | 7-3/4 | 75.00 |
| 53035 | 3000 | | .7810 | | 1.1650 | | | | 75.00 |
| 53036 | 5000 | | .8750 | | 1.3220 | | | | 91.20 |
| 53037 | 4000 | 7/8 | .8910 | 7/8 | 1.3380 | 2-1/8 | .8750 | 8 | 91.20 |
| 53038 | 3000 | | .9060 | | 1.3540 | | | | 91.20 |
| 53039 | 5000 | | 1.000 | | 1.5100 | | | | 115.60 |
| 53040 | 4000 | 1 | 1.015 | 1 | 1.5260 | 2-1/4 | 1.0000 | 8-1/2 | 115.60 |
| 53041 | 3000 | | 1.031 | | 1.5420 | | | | 115.60 |

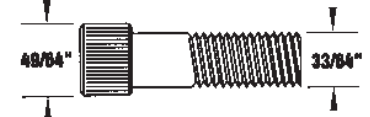
5000 Series

On size



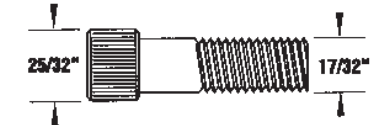
4000 Series

1/64 Oversize



3000 Series

1/32 Oversize



CAPSCREW COUNTERBORES SETS

| EDP Number | Series | Number Of Tools | List Price |
|------------|--------|-----------------|------------|
| 29130 | 3000 | 10 | 257.60 |
| 29131 | 4000 | 10 | 257.60 |
| 29132 | 5000 | 10 | 257.60 |
| 29133 | 4010 | 8 | 271.30 |

- Sets 3000, 4000, 5000 Tools Range From 4-40 to 1/2"
- Set 4010 Tools Range From 3MM to 14MM

METRIC CAPSCREW COUNTERBORES

Series 4010

| EDP Number | Series | Screw Size | Pilot Size | Pilot Length | Flute Size | Flute Length | Shank Dia. | Overall Length | List Price |
|------------|--------|------------|------------|--------------|------------|--------------|------------|----------------|------------|
| 53080 | 4010 | 3MM | .1378 | .218 | .2362 | 7/8 | .1875 | 4-1/2 | 19.50 |
| 53081 | 4010 | 4MM | .1772 | .250 | .2953 | 15/16 | .2500 | 5 | 22.10 |
| 53082 | 4010 | 5MM | .2165 | .281 | .3543 | 1-1/8 | .3125 | 5-5/8 | 23.30 |
| 53083 | 4010 | 6MM | .2559 | .312 | .4134 | 1-5/16 | .3125 | 5-5/8 | 24.60 |
| 53084 | 4010 | 8MM | .3346 | .375 | .5315 | 1-5/16 | .5000 | 6-1/2 | 29.00 |
| 53085 | 4010 | 10MM | .4134 | .500 | .6496 | 1-11/16 | .5000 | 7 | 33.00 |
| 53086 | 4010 | 12MM | .4921 | .500 | .7283 | 1-11/16 | .5000 | 7-1/8 | 39.40 |
| 53087 | 4010 | 14MM | .5709 | .562 | .8465 | 2 | .6250 | 7-1/2 | 52.60 |

TAPER SHANK CAPSCREW COUNTERBORES

HIGH SPEED STEEL, 1/32 OVERSIZE
Series 3500



| EDP Number | Screw Size | Pilot Size | Pilot Length | Flute Size | Flute Length | List Price |
|------------|------------|------------|--------------|------------|--------------|------------|
| 53102 | 4-40 | .1430 | 5/32 | .2180 | 11/16 | 23.20 |
| 53105 | 5-40 | .1560 | 3/16 | .2370 | 11/16 | 23.20 |
| 53108 | 6-32 | .1690 | 7/32 | .2600 | 7/8 | 24.10 |
| 53111 | 8-32 | .1950 | 1/4 | .3040 | 15/16 | 25.50 |
| 53114 | 10-32 | .2210 | 9/32 | .3460 | 1-1/8 | 25.80 |
| 53117 | 1/4" | .2810 | 5/16 | .4140 | 1-5/16 | 26.90 |
| 53120 | 5/16" | .3430 | 3/8 | .5070 | 1-5/16 | 31.80 |
| 53123 | 3/8" | .4060 | 1/2 | .6040 | 1-5/8 | 34.20 |
| 53126 | 7/16" | .4680 | 1/2 | .6950 | 1-11/16 | 39.80 |
| 53129 | 1/2" | .5310 | 1/2 | .7890 | 2 | 44.60 |
| 53132 | 5/8" | .6560 | 5/8 | .9770 | 2 | 68.80 |
| 53135 | 3/4" | .7810 | 3/4 | 1.1650 | 2-1/8 | 79.10 |
| 53138 | 7/8" | .9060 | 7/8 | 1.3540 | 2-1/8 | 94.80 |
| 53141 | 1" | 1.031 | 1 | 1.5420 | 2-1/4 | 118.50 |

METRIC HAND REAMERS

HIGH SPEED STEEL, STRAIGHT FLUTE
Series 2010



| EDP Number | Metric Size | Dec. Equiv. | Flute Length | Overall Length | List Price |
|------------|-------------|-------------|--------------|----------------|------------|
| 20650 | 3mm | .1181 | 1-1/2 | 3 | 23.80 |
| 20651 | 4mm | .1575 | 1-5/8 | 3-1/4 | 25.60 |
| 20652 | 5mm | .1968 | 1-7/8 | 3-3/4 | 26.70 |
| 20653 | 6mm | .2362 | 2 | 4 | 26.70 |
| 20654 | 7mm | .2756 | 2-1/8 | 4-1/4 | 28.00 |
| 20655 | 8mm | .3150 | 2-1/4 | 4-1/2 | 28.00 |
| 20656 | 9mm | .3543 | 2-1/2 | 5 | 34.60 |
| 20657 | 10mm | .3937 | 2-5/8 | 5-1/4 | 38.60 |
| 20658 | 12mm | .4724 | 3 | 6 | 39.90 |
| 20659 | 13mm | .5118 | 3-1/8 | 6-1/4 | 44.20 |
| 20660 | 14mm | .5512 | 3-1/4 | 6-1/2 | 44.20 |
| 20661 | 16mm | .6299 | 3-1/2 | 7 | 53.30 |
| 20662 | 18mm | .7087 | 4-1/16 | 8-1/8 | 57.20 |
| 20663 | 20mm | .7874 | 4-9/16 | 9-1/8 | 63.90 |

TAPER SHANK CAPSCREW COUNTERBORES

HIGH SPEED STEEL, METRIC
Series 4200

| EDP Number | Screw Size | Pilot Size | Pilot Length | Flute Size | Flute Length | List Price |
|------------|------------|------------|--------------|------------|--------------|------------|
| 53180 | 3mm | .1378 | .218 | .2362 | 7/8 | 32.90 |
| 53181 | 4mm | .1772 | .250 | .2953 | 15/16 | 37.40 |
| 53182 | 5mm | .2165 | .281 | .3543 | 1-1/8 | 42.40 |
| 53183 | 6mm | .2559 | .312 | .4134 | 1-5/16 | 43.60 |
| 53184 | 8mm | .3346 | .375 | .5315 | 1-5/16 | 62.30 |
| 53185 | 10mm | .4134 | .500 | .6496 | 1-11/16 | 65.30 |
| 53186 | 12mm | .4921 | .500 | .7283 | 1-11/16 | 79.90 |
| 53187 | 14mm | .5709 | .562 | .8465 | 2 | 102.80 |
| 53188 | 16mm | .6496 | .625 | .9646 | 2 | 126.70 |
| 53189 | 20mm | .8071 | .750 | 1.0028 | 2-1/8 | 149.90 |
| 53190 | 24mm | .9646 | .875 | 1.4370 | 2-1/4 | 195.40 |

CORE DRILLS

FRACTIONAL SIZES

HIGH SPEED STEEL, STRAIGHT SHANK, 4 FLUTES
8001 SERIES, Right Hand Spiral, Right Hand Cut



| EDP Number | Decimal Equiv. Inches | Size | Flute Length Inches | Overall Length Inches | List Price 8001 | EDP Number 8001 | Decimal Equiv. Inches | Size | Flute Length Inches | Overall Length Inches | List Price 8001 |
|------------|-----------------------|-------|---------------------|-----------------------|-----------------|-----------------|-----------------------|--------|---------------------|-----------------------|-----------------|
| 47000 | .1250 | 1/8 | 2-3/4 | 5-1/8 | 11.40 | 47025 | .5312 | 17/32 | 4-3/4 | 8 | 26.00 |
| 47001 | .1406 | 9/64 | 3 | 5-3/8 | 11.80 | 47026 | .5625 | 9/16 | 4-7/8 | 8-1/4 | 28.40 |
| 47002 | .1562 | 5/32 | 3 | 5-3/8 | 12.20 | 47027 | .5937 | 19/32 | 4-7/8 | 8-3/4 | 30.90 |
| 47003 | .1719 | 11/64 | 3-3/8 | 5-3/4 | 12.60 | 47028 | .6250 | 5/8 | 4-7/8 | 8-3/4 | 33.50 |
| 47004 | .1875 | 3/16 | 3-3/8 | 5-3/4 | 12.90 | 47029 | .6562 | 21/32 | 5-1/8 | 9 | 36.10 |
| 47005 | .2031 | 13/64 | 3-5/8 | 6 | 13.30 | 47030 | .6875 | 11/16 | 5-3/8 | 9-1/4 | 38.50 |
| 47006 | .2187 | 7/32 | 3-5/8 | 6 | 14.30 | 47031 | .7187 | 23/32 | 5-5/8 | 9-1/2 | 41.90 |
| 47007 | .2344 | 15/64 | 3-3/4 | 6-1/8 | 14.30 | 47032 | .7500 | 3/4 | 5-7/8 | 9-3/4 | 44.10 |
| 47008 | .2500 | 1/4 | 3-3/4 | 6-1/8 | 14.60 | 47033 | .7812 | 25/32 | 6 | 9-7/8 | 47.00 |
| 47009 | .2656 | 17/64 | 3-7/8 | 6-1/4 | 15.10 | 47034 | .8125 | 13/16 | 6-1/8 | 10 | 53.70 |
| 47010 | .2812 | 9/32 | 3-7/8 | 6-1/4 | 15.50 | 47035 | .8437 | 27/32 | 6-1/8 | 10 | 56.00 |
| 47011 | .2969 | 19/64 | 4 | 6-3/8 | 15.90 | 47036 | .8750 | 7/8 | 6-1/8 | 10 | 58.50 |
| 47012 | .3125 | 5/16 | 4 | 6-3/8 | 16.20 | 47037 | .9062 | 29/32 | 6-1/8 | 10 | 61.50 |
| 47013 | .3281 | 21/64 | 4-1/8 | 6-1/2 | 16.60 | 47038 | .9375 | 15/16 | 6-1/8 | 10-3/4 | 63.50 |
| 47014 | .3437 | 11/32 | 4-1/8 | 6-1/2 | 17.20 | 47039 | .9687 | 31/32 | 6-3/8 | 11 | 70.60 |
| 47015 | .3594 | 23/64 | 4-1/4 | 6-3/4 | 17.50 | 47040 | 1.0000 | 1 | 6-3/8 | 11 | 73.20 |
| 47016 | .3750 | 3/8 | 4-1/4 | 6-3/4 | 18.00 | 47041 | 1.0312 | 1-1/32 | 6-1/2 | 11-1/8 | 78.60 |
| 47017 | .3906 | 25/64 | 4-3/8 | 7 | 18.40 | 47042 | 1.0625 | 1-1/16 | 6-5/8 | 11-1/4 | 82.00 |
| 47018 | .4062 | 13/32 | 4-3/8 | 7 | 18.80 | 47043 | 1.0937 | 1-3/32 | 6-7/8 | 11-1/4 | 92.20 |
| 47019 | .4219 | 27/64 | 4-5/8 | 7-1/4 | 19.20 | 47044 | 1.1250 | 1-1/8 | 7-1/8 | 11-3/4 | 97.70 |
| 47020 | .4375 | 7/16 | 4-5/8 | 7-1/4 | 19.60 | 47045 | 1.1562 | 1-5/32 | 7-1/4 | 11-7/8 | 102.70 |
| 47021 | .4531 | 29/64 | 4-3/4 | 7-1/2 | 20.10 | 47046 | 1.1875 | 1-3/16 | 7-3/8 | 12 | 107.80 |
| 47022 | .4687 | 15/32 | 4-3/4 | 7-1/2 | 20.50 | 47047 | 1.2187 | 1-7/32 | 7-1/2 | 12-1/8 | 114.50 |
| 47023 | .4844 | 31/64 | 4-3/4 | 7-3/4 | 21.80 | 47048 | 1.2500 | 1-1/4 | 7-7/8 | 12-1/2 | 123.90 |
| 47024 | .5000 | 1/2 | 4-3/4 | 7-3/4 | 23.30 | | | | | | |

CORE DRILLS

SPECIAL DECIMAL

HIGH SPEED STEEL, STRAIGHT SHANK, 4 FLUTES
8001 SERIES, Right Hand Spiral, Right Hand Cut

| EDP Number | Diameter Range | 1 | 2 | 3 | 4-5 | 6-11 | 12-23 | 24-35 | 36-47 | 48-59 | 60-71 | 72-95 | 96-119 |
|------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 57000 | .0930-.1250 | 47.90 | 29.00 | 23.60 | 18.10 | 15.40 | 14.50 | 13.70 | 12.60 | 12.30 | 12.10 | 12.00 | 12.00 |
| 57001 | .1251-.1562 | 47.50 | 28.80 | 28.80 | 17.70 | 15.10 | 14.00 | 13.40 | 12.30 | 11.90 | 11.80 | 11.70 | 11.50 |
| 57002 | .1563-.1875 | 48.30 | 29.30 | 24.30 | 18.40 | 15.70 | 15.00 | 14.10 | 13.10 | 12.60 | 12.50 | 12.30 | 12.30 |
| 57003 | .1876-.2188 | 50.30 | 31.30 | 24.30 | 20.60 | 17.90 | 17.10 | 16.20 | 15.30 | 14.70 | 14.60 | 14.50 | 14.40 |
| 57004 | .2189-.2500 | 49.50 | 30.80 | 25.50 | 20.00 | 17.30 | 16.50 | 15.60 | 14.50 | 14.20 | 14.00 | 13.90 | 13.70 |
| 57005 | .2501-.2812 | 50.40 | 31.50 | 26.30 | 20.80 | 18.00 | 17.20 | 16.30 | 15.30 | 14.80 | 14.70 | 14.60 | 14.50 |
| 57006 | .2813-.3125 | 51.00 | 32.20 | 27.10 | 21.40 | 18.80 | 17.90 | 17.20 | 16.00 | 15.60 | 15.50 | 15.30 | 15.30 |
| 57007 | .3126-.3594 | 51.60 | 32.80 | 27.90 | 22.30 | 19.50 | 18.60 | 17.80 | 16.90 | 16.30 | 16.10 | 16.00 | 16.00 |
| 57008 | .3595-.3750 | 52.30 | 33.50 | 28.60 | 23.00 | 20.20 | 19.40 | 18.60 | 17.60 | 17.20 | 17.00 | 16.90 | 16.70 |
| 57009 | .3751-.4062 | 53.00 | 34.10 | 29.20 | 23.60 | 21.00 | 20.20 | 19.40 | 18.20 | 17.90 | 17.70 | 17.60 | 17.50 |
| 57010 | .4063-.4375 | 53.80 | 34.90 | 29.20 | 24.50 | 21.70 | 20.90 | 20.10 | 19.10 | 18.60 | 18.40 | 18.30 | 18.10 |
| 57011 | .4376-.4688 | 54.40 | 35.60 | 30.80 | 25.20 | 22.60 | 21.70 | 20.80 | 19.80 | 19.40 | 19.30 | 19.10 | 18.90 |
| 57012 | .4689-.5000 | 56.30 | 37.60 | 32.00 | 27.40 | 24.80 | 23.80 | 23.10 | 22.00 | 21.50 | 21.30 | 21.30 | 21.20 |
| 57013 | .5001-.5312 | 58.50 | 39.60 | 35.30 | 29.80 | 27.00 | 26.10 | 25.30 | 24.40 | 23.80 | 23.60 | 23.50 | 23.40 |
| 57014 | .5313-.5626 | 60.40 | 41.60 | 37.50 | 31.90 | 29.10 | 28.40 | 27.50 | 26.50 | 26.20 | 26.00 | 25.70 | 25.70 |

CORE DRILLS

SPECIAL DECIMAL

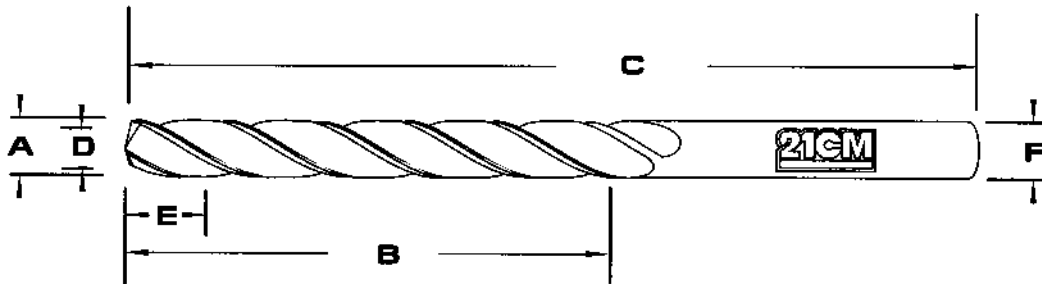
HIGH SPEED STEEL, STRAIGHT SHANK, 4 FLUTES
8001 SERIES, Right Hand Spiral, Right Hand Cut

| EDP Number | Diameter Range | 1 | 2 | 3 | 4-5 | 6-11 | 12-23 | 24-35 | 36-47 | 48-59 | 60-71 | 72-95 | 96-119 |
|------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 57015 | .5627-.5930 | 62.40 | 43.60 | 39.70 | 34.10 | 31.50 | 30.60 | 29.80 | 28.70 | 28.30 | 28.20 | 28.10 | 27.90 |
| 57016 | .5931-.6250 | 64.60 | 45.70 | 41.90 | 36.30 | 33.70 | 32.80 | 32.00 | 30.90 | 30.50 | 30.40 | 30.30 | 30.20 |
| 57017 | .6251-.6562 | 66.60 | 47.70 | 44.30 | 38.60 | 35.90 | 35.20 | 34.20 | 33.30 | 32.80 | 32.60 | 32.60 | 32.40 |
| 57018 | .6563-.6875 | 68.70 | 49.90 | 46.50 | 40.90 | 38.10 | 37.40 | 36.40 | 35.40 | 35.00 | 34.90 | 34.70 | 34.70 |
| 57019 | .6876-.7188 | 71.30 | 52.50 | 49.40 | 43.80 | 41.10 | 40.30 | 39.50 | 38.30 | 38.00 | 38.00 | 37.70 | 37.60 |
| 57020 | .7189-.7500 | 73.00 | 53.80 | 51.30 | 45.70 | 43.00 | 42.00 | 41.30 | 40.30 | 39.90 | 39.70 | 39.60 | 39.40 |
| 57021 | .7501-.7810 | 75.30 | 56.50 | 54.00 | 48.40 | 45.60 | 44.70 | 43.90 | 43.00 | 42.60 | 42.20 | 42.10 | 42.00 |
| 57022 | .7811-.8125 | 80.80 | 62.00 | 59.90 | 54.30 | 51.70 | 50.80 | 49.90 | 48.90 | 48.50 | 48.40 | 48.20 | 48.10 |
| 57023 | .8126-.8438 | 82.50 | 63.70 | 61.70 | 56.20 | 53.40 | 53.40 | 51.80 | 50.80 | 50.40 | 50.30 | 49.90 | 49.90 |
| 57024 | .8439-.8750 | 84.50 | 65.70 | 64.00 | 58.40 | 55.70 | 54.80 | 54.00 | 53.00 | 52.50 | 52.40 | 52.20 | 52.20 |
| 57025 | .8751-.9060 | 87.00 | 68.00 | 66.60 | 61.10 | 58.30 | 57.50 | 56.60 | 55.60 | 55.20 | 54.90 | 54.80 | 54.70 |
| 57026 | .9061-.9375 | 87.80 | 69.00 | 67.60 | 62.00 | 59.40 | 58.50 | 57.70 | 56.60 | 56.20 | 56.10 | 56.00 | 55.90 |
| 57027 | .9376-.9688 | 94.50 | 75.60 | 74.80 | 69.20 | 66.50 | 65.60 | 64.90 | 63.80 | 63.40 | 63.30 | 63.10 | 63.00 |
| 57028 | .9689-1.0000 | 96.40 | 77.60 | 77.00 | 71.50 | 68.70 | 67.80 | 67.00 | 66.00 | 65.50 | 65.40 | 65.40 | 65.20 |
| 57029 | 1.0001-1.0310 | 110.90 | 90.30 | 81.90 | 76.40 | 73.50 | 72.80 | 72.00 | 70.90 | 70.50 | 70.40 | 70.20 | 70.10 |
| 57030 | 1.0311-1.0625 | 113.80 | 93.50 | 84.90 | 79.30 | 76.60 | 75.60 | 74.80 | 73.90 | 73.60 | 73.20 | 73.10 | 73.00 |
| 57031 | 1.0626-1.0930 | 122.80 | 102.20 | 93.90 | 88.20 | 85.50 | 84.60 | 83.80 | 82.90 | 82.30 | 82.20 | 82.10 | 82.00 |
| 57032 | 1.0931-1.1250 | 127.60 | 106.90 | 98.70 | 93.10 | 90.30 | 89.50 | 88.60 | 87.60 | 87.30 | 87.10 | 87.00 | 86.90 |
| 57033 | 1.1251-1.1560 | 132.10 | 111.40 | 103.00 | 97.50 | 94.80 | 94.00 | 93.20 | 92.20 | 91.60 | 91.50 | 91.40 | 91.30 |
| 57034 | 1.1561-1.1875 | 136.70 | 115.80 | 107.60 | 101.90 | 99.40 | 98.50 | 97.50 | 95.90 | 96.20 | 96.00 | 96.00 | 95.80 |
| 57035 | 1.1876-1.2180 | 142.60 | 121.90 | 113.70 | 108.00 | 105.30 | 104.30 | 103.60 | 102.60 | 102.10 | 101.90 | 101.80 | 101.70 |
| 57036 | 1.2181-1.2500 | 150.70 | 130.20 | 121.80 | 116.30 | 113.40 | 112.70 | 111.70 | 110.70 | 110.50 | 110.30 | 110.10 | 109.80 |

SPECIAL CORE DRILLS

SPECIFICATION REQUIREMENTS

HIGH SPEED STEEL OR M42 COBALT



- A _____ Flute Diameter
- B _____ Flute Length
- C _____ Overall Length
- D _____ Pilot Diameter
- E _____ Pilot Length
- F _____ Shank Diameter

Material Of Tool - HSS, Cobalt
Coatings - Black Oxide, TIN, TiCN
Margin Width -
Delivery Requested -
Number Of Flutes -

SPECIFICATIONS NEEDED TO QUOTE SPECIAL CORE DRILLS

COMPLY WITH ACCEPTED SAFETY REQUIREMENTS



While all Twenty-First Century Manufacturing tooling is manufactured to exacting specifications designed to provide safe, optimum life under normal usage, it is important for the user to adhere to generally accepted tool use practices. The most important practice is safety.

- a. Wear Safety glasses or shield when performing any drilling or reaming operations.
- b. Do not exceed generally accepted feeds and speeds of any cutting tool.

LIMITED WARRANTY

Twenty-First Century Manufacturing does not give any warranty on its products, except as follows:

Twenty-First Century Manufacturing warrants to original equipment manufacturers, distributors and industrial and commercial users of its products that each new product which it manufactures or supplies is free from defects in material and workmanship. Its sole obligation under this warranty is limited to furnishing, without additional charge, a replacement for, or, at its option, repairing or issuing credit for such product which shall, within 30 days from the date of sale by Twenty-First Century Manufacturing, be returned freight prepaid to the plant designated by a Twenty-First Century Manufacturing representative and which, upon inspection, is determined by Twenty-First Century Manufacturing to be defective in materials or workmanship. The provisions of this warranty shall not apply to any product which has been subjected to misuse, improper operating conditions, machine setup or which has been repaired or altered, if such would adversely affect performance of the product. Complete written information with respect to all such matters must be furnished to Twenty-First Century Manufacturing as a prerequisite to its consideration of any claim or complaint under this warranty. The repair, replacement or issuance of credit for parts provided for this warranty constitutes the Buyer's EXCLUSIVE REMEDY.

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