

DRILL

AMERICA



WWW.DRILLAMERICA.NET



"AMERICA'S CUTTING TOOL CONNECTION"

6550 NW 72nd Avenue
Miami, FL 33166

Phone: 888-866-5248
Fax: 800-944-4810

165 New York Avenue
Lindenhurst, NY 11757

sales@drillamerica.net
www.drillamerica.net

Drill America[®]

KFD[®]

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QualTech[®]

TABLE OF CONTENTS

| | |
|-----------------------------------|-----------|
| Drill Bits..... | 2 - 50 |
| Drill Bit Sets | 51 - 56 |
| Taps..... | 57 - 71 |
| Dies..... | 72 - 81 |
| Hole Cutters | 82 |
| Annular Cutters | 83 - 84 |
| Hole Saws | 85 |
| Counterbores | 86 - 88 |
| Countersinks | 89 - 93 |
| Screw Extractors | 94 |
| Threaded Shank Drills | 95 - 96 |
| Reamers | 97 - 109 |
| Bridge/Construction Reamers | 104 - 105 |
| Machine Tool Accessories | 110 - 111 |
| End Mills..... | 112 - 122 |
| Carbide Burs | 123 - 126 |
| Abrasives | 126 |
| Files | 127 |
| Indexes & Dispensers | 128 - 129 |
| Tool Bits..... | 130 |
| Wood Working | 131 - 132 |
| Insert Bits | 133 - 134 |
| Index | 135 - 136 |

HSS JOBBERS LENGTH DRILLS 118° POINT

DWDN Series - Surface Treated Economy

D/AN Series - Surface Treated Premium Quality

A dependable, general purpose drill designed to perform in a broad range of materials in the iron and steel families. Ideal for production, maintenance or portable drilling jobs. Surface treated with abrasion-resistant black oxide.



DWDP Series - Polished Economy

D/AP Series - Polished Premium Quality

A dependable, general purpose drill used for a variety of materials. Ideal for production, maintenance or portable drilling jobs. Bright finish, which provides superior chip evacuation.



F R A C T I O N A L S I Z E S

| | | | | DWDN Series | | D/AN Series | | DWDP Series | | D/AP Series | |
|--------|-------------|--------------|--------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 1/64" | .0156 | 3/16" | 3/4" | DWDN1/64 | \$0.63 | D/AN1/64 | \$2.08 | DWDP1/64 | \$1.81 | D/AP1/64 | \$2.08 |
| 1/32" | .0312 | 1/2" | 1-3/8" | DWDN1/32 | \$0.59 | D/AN1/32 | \$1.43 | DWDP1/32 | \$1.29 | D/AP1/32 | \$1.43 |
| 3/64" | .0469 | 3/4" | 1-3/4" | DWDN3/64 | \$0.59 | D/AN3/64 | \$1.36 | DWDP3/64 | \$1.16 | D/AP3/64 | \$1.36 |
| 1/16" | .0625 | 7/8" | 1-7/8" | DWDN1/16 | \$0.59 | D/AN1/16 | \$1.22 | DWDP1/16 | \$1.07 | D/AP1/16 | \$1.22 |
| 5/64" | .0781 | 1" | 2" | DWDN5/64 | \$0.63 | D/AN5/64 | \$1.26 | DWDP5/64 | \$1.07 | D/AP5/64 | \$1.26 |
| 3/32" | .0938 | 1-1/4" | 2-1/4" | DWDN3/32 | \$0.63 | D/AN3/32 | \$1.09 | DWDP3/32 | \$0.94 | D/AP3/32 | \$1.09 |
| 7/64" | .1094 | 1-1/2" | 2-5/8" | DWDN7/64 | \$0.63 | D/AN7/64 | \$1.18 | DWDP7/64 | \$1.03 | D/AP7/64 | \$1.18 |
| 1/8" | .1250 | 1-5/8" | 2-3/4" | DWDN1/8 | \$0.63 | D/AN1/8 | \$1.31 | DWDP1/8 | \$1.12 | D/AP1/8 | \$1.31 |
| 9/64" | .1406 | 1-3/4" | 2-7/8" | DWDN9/64 | \$0.71 | D/AN9/64 | \$1.36 | DWDP9/64 | \$1.12 | D/AP9/64 | \$1.36 |
| 5/32" | .1562 | 2" | 3-1/8" | DWDN5/32 | \$0.71 | D/AN5/32 | \$1.57 | DWDP5/32 | \$1.35 | D/AP5/32 | \$1.57 |
| 11/64" | .1719 | 2-1/8" | 3-1/4" | DWDN11/64 | \$0.80 | D/AN11/64 | \$1.78 | DWDP11/64 | \$1.54 | D/AP11/64 | \$1.78 |
| 3/16" | .1875 | 2-5/16" | 3-1/2" | DWDN3/16 | \$0.87 | D/AN3/16 | \$1.96 | DWDP3/16 | \$1.71 | D/AP3/16 | \$1.96 |
| 13/64" | .2031 | 2-7/16" | 3-5/8" | DWDN13/64 | \$0.99 | D/AN13/64 | \$2.18 | DWDP13/64 | \$1.86 | D/AP13/64 | \$2.18 |
| 7/32" | .2188 | 2-1/2" | 3-3/4" | DWDN7/32 | \$1.06 | D/AN7/32 | \$2.44 | DWDP7/32 | \$2.08 | D/AP7/32 | \$2.44 |
| 15/64" | .2344 | 2-5/8" | 3-7/8" | DWDN15/64 | \$1.18 | D/AN15/64 | \$2.69 | DWDP15/64 | \$2.34 | D/AP15/64 | \$2.69 |
| 1/4" | .2500 | 2-3/4" | 4" | DWDN1/4 | \$1.23 | D/AN1/4 | \$2.75 | DWDP1/4 | \$2.34 | D/AP1/4 | \$2.75 |
| 17/64" | .2656 | 2-7/8" | 4-1/8" | DWDN17/64 | \$1.49 | D/AN17/64 | \$3.42 | DWDP17/64 | \$2.94 | D/AP17/64 | \$3.42 |
| 9/32" | .2812 | 2-15/16" | 4-1/4" | DWDN9/32 | \$1.55 | D/AN9/32 | \$3.86 | DWDP9/32 | \$3.36 | D/AP9/32 | \$3.86 |
| 19/64" | .2969 | 3-1/16" | 4-3/8" | DWDN19/64 | \$1.84 | D/AN19/64 | \$4.38 | DWDP19/64 | \$3.81 | D/AP19/64 | \$4.38 |
| 5/16" | .3125 | 3-3/16" | 4-1/2" | DWDN5/16 | \$1.99 | D/AN5/16 | \$4.51 | DWDP5/16 | \$3.88 | D/AP5/16 | \$4.51 |
| 21/64" | .3281 | 3-5/16" | 4-5/8" | DWDN21/64 | \$2.24 | D/AN21/64 | \$5.01 | DWDP21/64 | \$4.30 | D/AP21/64 | \$5.01 |
| 11/32" | .3438 | 3-7/16" | 4-3/4" | DWDN11/32 | \$2.45 | D/AN11/32 | \$5.58 | DWDP11/32 | \$4.81 | D/AP11/32 | \$5.58 |
| 23/64" | .3594 | 3-1/2" | 4-7/8" | DWDN23/64 | \$2.80 | D/AN23/64 | \$6.30 | DWDP23/64 | \$5.42 | D/AP23/64 | \$6.30 |
| 3/8" | .3750 | 3-5/8" | 5" | DWDN3/8 | \$2.82 | D/AN3/8 | \$6.30 | DWDP3/8 | \$5.42 | D/AP3/8 | \$6.30 |
| 25/64" | .3906 | 3-3/4" | 5-1/8" | DWDN25/64 | \$3.31 | D/AN25/64 | \$7.36 | DWDP25/64 | \$6.33 | D/AP25/64 | \$7.36 |
| 13/32" | .4062 | 3-7/8" | 5-1/4" | DWDN13/32 | \$3.35 | D/AN13/32 | \$7.53 | DWDP13/32 | \$6.46 | D/AP13/32 | \$7.53 |
| 27/64" | .4219 | 3-15/16" | 5-3/8" | DWDN27/64 | \$3.74 | D/AN27/64 | \$8.73 | DWDP27/64 | \$7.26 | D/AP27/64 | \$8.73 |
| 7/16" | .4375 | 4-1/16" | 5-1/2" | DWDN7/16 | \$3.85 | D/AN7/16 | \$8.73 | DWDP7/16 | \$7.50 | D/AP7/16 | \$8.73 |
| 29/64" | .4531 | 4-3/16" | 5-5/8" | DWDN29/64 | \$4.37 | D/AN29/64 | \$9.84 | DWDP29/64 | \$8.45 | D/AP29/64 | \$9.84 |
| 15/32" | .4688 | 4-5/16" | 5-3/4" | DWDN15/32 | \$4.61 | D/AN15/32 | \$10.37 | DWDP15/32 | \$8.89 | D/AP15/32 | \$10.37 |
| 31/64" | .4844 | 4-3/8" | 5-7/8" | DWDN31/64 | \$4.84 | D/AN31/64 | \$11.66 | DWDP31/64 | \$10.03 | D/AP31/64 | \$11.66 |
| 1/2" | .5000 | 4-1/2" | 6" | DWDN1/2 | \$5.07 | D/AN1/2 | \$11.70 | DWDP1/2 | \$10.03 | D/AP1/2 | \$11.70 |

HSS JOBBERS LENGTH DRILLS 118° POINT

FRACTIONAL SIZES OVER 1/2"

| | | | | DWDN Series | | D/AN Series | |
|--------|-------------|--------------|--------|-------------|------------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 33/64" | .5156 | 4-13/16" | 6-5/8" | DWDN33/64 | \$11.26 | D/AN33/64 | \$22.16 |
| 17/32" | .5312 | 4-13/16" | 6-5/8" | DWDN17/32 | \$11.82 | D/AN17/32 | \$23.24 |
| 35/64" | .5469 | 4-13/16" | 6-5/8" | DWDN35/64 | \$12.75 | D/AN35/64 | \$25.15 |
| 9/16" | .5625 | 4-13/16" | 6-5/8" | DWDN9/16 | \$13.38 | D/AN9/16 | \$26.34 |
| 37/64" | .5781 | 4-13/16" | 6-5/8" | DWDN37/64 | \$13.43 | D/AN37/64 | \$26.41 |
| 19/32" | .5938 | 5-3/16" | 7-1/8" | DWDN19/32 | \$13.78 | D/AN19/32 | \$27.13 |
| 39/64" | .6094 | 5-3/16" | 7-1/8" | DWDN39/64 | \$14.76 | D/AN39/64 | \$29.07 |
| 5/8" | .6250 | 5-3/16" | 7-1/8" | DWDN5/8 | \$14.76 | D/AN5/8 | \$29.07 |
| 41/64" | .6406 | 5-3/16" | 7-1/8" | DWDN41/64 | \$15.81 | D/AN41/64 | \$31.16 |
| 21/32" | .6562 | 5-3/16" | 7-1/8" | DWDN21/32 | \$16.58 | D/AN21/32 | \$32.66 |
| 43/64" | .6719 | 5-5/8" | 7-5/8" | DWDN43/64 | \$17.91 | D/AN43/64 | \$35.30 |
| 11/16" | .6875 | 5-5/8" | 7-5/8" | DWDN11/16 | \$17.91 | D/AN11/16 | \$35.30 |

Package Quantities

| | | |
|---------------|-------|-----------------|
| #1 – #80 | ----- | 12 pcs per pack |
| A – O | ----- | 12 pcs per pack |
| P – Z | ----- | 6 pcs per pack |
| 1/64" – 5/16" | ----- | 12 pcs per pack |
| 21/64" – 1/2" | ----- | 6 pcs per pack |
| 33/64" & Up | ----- | 1 pc per pack |
| .30 – 8MM | ----- | 12 pcs per pack |
| 8.10 – 13MM | ----- | 6 pcs per pack |
| 13.5MM & Up | ----- | 1 pc per pack |

LETTER SIZES

| | | | | DWDN Series | | D/AN Series | | D/AP Series | |
|------|-------------|--------------|--------|-------------|------------|-------------|------------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| A | .2340 | 2-5/8" | 3-7/8" | DWDNA | \$1.83 | D/ANA | \$3.31 | D/APA | \$3.31 |
| B | .2380 | 2-3/4" | 4" | DWDNB | \$1.83 | D/ANB | \$3.40 | D/APB | \$3.40 |
| C | .2420 | 2-3/4" | 4" | DWDNC | \$1.83 | D/ANC | \$3.19 | D/APC | \$3.19 |
| D | .2460 | 2-3/4" | 4" | DWDND | \$1.83 | D/AND | \$3.19 | D/APD | \$3.19 |
| E | .2500 | 2-3/4" | 4" | DWDNE | \$1.71 | D/ANE | \$3.35 | D/APE | \$3.35 |
| F | .2570 | 2-7/8" | 4-1/8" | DWDNF | \$1.97 | D/ANF | \$3.87 | D/APF | \$3.87 |
| G | .2610 | 2-7/8" | 4-1/8" | DWDNG | \$2.19 | D/ANG | \$4.17 | D/APG | \$4.17 |
| H | .2660 | 2-7/8" | 4-1/8" | DWDNH | \$2.19 | D/ANH | \$4.36 | D/APH | \$4.36 |
| I | .2720 | 2-7/8" | 4-1/8" | DWDNI | \$2.19 | D/ANI | \$4.36 | D/API | \$4.36 |
| J | .2770 | 2-7/8" | 4-1/8" | DWDNJ | \$2.37 | D/ANJ | \$4.65 | D/APJ | \$4.65 |
| K | .2810 | 2-15/16" | 4-1/4" | DWDNK | \$2.59 | D/ANK | \$4.65 | D/APK | \$4.65 |
| L | .2900 | 2-15/16" | 4-1/4" | DWDNL | \$2.59 | D/ANL | \$5.40 | D/APL | \$5.40 |
| M | .2950 | 3-1/16" | 4-3/8" | DWDNM | \$2.76 | D/ANM | \$5.40 | D/APM | \$5.40 |
| N | .3020 | 3-1/16" | 4-3/8" | DWDNN | \$2.76 | D/ANN | \$5.44 | D/APN | \$5.44 |
| O | .3160 | 3-3/16" | 4-1/2" | DWDNO | \$2.80 | D/ANO | \$5.52 | D/APO | \$5.52 |
| P | .3230 | 3-5/16" | 4-5/8" | DWDNP | \$3.16 | D/ANP | \$6.21 | D/APP | \$6.21 |
| Q | .3320 | 3-7/16" | 4-3/4" | DWDNQ | \$3.16 | D/ANQ | \$6.21 | D/APQ | \$6.21 |
| R | .3390 | 3-7/16" | 4-3/4" | DWDNR | \$3.38 | D/ANR | \$6.61 | D/APR | \$6.61 |
| S | .3480 | 3-1/2" | 4-7/8" | DWDNS | \$3.54 | D/ANS | \$7.05 | D/APS | \$7.05 |
| T | .3580 | 3-1/2" | 4-7/8" | DWDNT | \$4.06 | D/ANT | \$7.60 | D/APT | \$7.60 |
| U | .3680 | 3-5/8" | 5" | DWDNU | \$4.06 | D/ANU | \$7.66 | D/APU | \$7.66 |
| V | .3770 | 3-5/8" | 5" | DWDNV | \$4.17 | D/ANV | \$7.91 | D/APV | \$7.91 |
| W | .3860 | 3-3/4" | 5-1/8" | DWDNW | \$4.29 | D/ANW | \$8.44 | D/APW | \$8.44 |
| X | .3970 | 3-3/4" | 5-1/8" | DWDNX | \$5.22 | D/ANX | \$8.53 | D/APX | \$8.53 |
| Y | .4040 | 3-7/8" | 5-1/4" | DWDNY | \$6.26 | D/ANY | \$10.43 | D/APY | \$10.43 |
| Z | .4130 | 3-7/8" | 5-1/4" | DWDNZ | \$5.85 | D/ANZ | \$11.52 | D/APZ | \$11.52 |



HSS JOBBERS LENGTH DRILLS

118° POINT

WIRE GAUGE SIZES



| Size | Dec. Equiv. | Flute Length | O.A.L. | DWDN Series | | D/AN Series | | D/AP Series | |
|------|-------------|--------------|--------|-------------|------------|-------------|------------|-------------|------------|
| | | | | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 1 | .2280 | 2-5/8" | 3-7/8" | DWDN1 | \$1.70 | D/AN1 | \$2.96 | D/AP1 | \$2.96 |
| 2 | .2210 | 2-5/8" | 3-7/8" | DWDN2 | \$1.70 | D/AN2 | \$2.96 | D/AP2 | \$2.96 |
| 3 | .2130 | 2-1/2" | 3-3/4" | DWDN3 | \$1.55 | D/AN3 | \$2.78 | D/AP3 | \$2.78 |
| 4 | .2090 | 2-1/2" | 3-3/4" | DWDN4 | \$1.55 | D/AN4 | \$2.78 | D/AP4 | \$2.78 |
| 5 | .2055 | 2-1/2" | 3-3/4" | DWDN5 | \$1.55 | D/AN5 | \$2.78 | D/AP5 | \$2.78 |
| 6 | .2040 | 2-1/2" | 3-3/4" | DWDN6 | \$1.55 | D/AN6 | \$2.78 | D/AP6 | \$2.78 |
| 7 | .2010 | 2-7/16" | 3-5/8" | DWDN7 | \$1.38 | D/AN7 | \$2.52 | D/AP7 | \$2.52 |
| 8 | .1990 | 2-7/16" | 3-5/8" | DWDN8 | \$1.38 | D/AN8 | \$2.52 | D/AP8 | \$2.52 |
| 9 | .1960 | 2-7/16" | 3-5/8" | DWDN9 | \$1.38 | D/AN9 | \$2.52 | D/AP9 | \$2.52 |
| 10 | .1935 | 2-7/16" | 3-5/8" | DWDN10 | \$1.38 | D/AN10 | \$2.52 | D/AP10 | \$2.52 |
| 11 | .1910 | 2-5/16" | 3-1/2" | DWDN11 | \$1.27 | D/AN11 | \$2.35 | D/AP11 | \$2.35 |
| 12 | .1890 | 2-5/16" | 3-1/2" | DWDN12 | \$1.27 | D/AN12 | \$2.35 | D/AP12 | \$2.35 |
| 13 | .1850 | 2-5/16" | 3-1/2" | DWDN13 | \$1.25 | D/AN13 | \$2.26 | D/AP13 | \$2.18 |
| 14 | .1820 | 2-3/16" | 3-3/8" | DWDN14 | \$1.25 | D/AN14 | \$2.18 | D/AP14 | \$2.18 |
| 15 | .1800 | 2-3/16" | 3-3/8" | DWDN15 | \$1.25 | D/AN15 | \$2.18 | D/AP15 | \$2.18 |
| 16 | .1770 | 2-3/16" | 3-3/8" | DWDN16 | \$1.25 | D/AN16 | \$2.18 | D/AP16 | \$2.18 |
| 17 | .1730 | 2-3/16" | 3-3/8" | DWDN17 | \$1.25 | D/AN17 | \$2.18 | D/AP17 | \$2.18 |
| 18 | .1695 | 2-1/8" | 3-1/4" | DWDN18 | \$0.99 | D/AN18 | \$1.95 | D/AP18 | \$1.95 |
| 19 | .1660 | 2-1/8" | 3-1/4" | DWDN19 | \$0.99 | D/AN19 | \$1.95 | D/AP19 | \$1.95 |
| 20 | .1610 | 2-1/8" | 3-1/4" | DWDN20 | \$0.99 | D/AN20 | \$1.95 | D/AP20 | \$1.95 |
| 21 | .1590 | 2-1/8" | 3-1/4" | DWDN21 | \$0.98 | D/AN21 | \$1.79 | D/AP21 | \$1.79 |
| 22 | .1570 | 2" | 3-1/8" | DWDN22 | \$0.98 | D/AN22 | \$1.79 | D/AP22 | \$1.79 |
| 23 | .1540 | 2" | 3-1/8" | DWDN23 | \$0.94 | D/AN23 | \$1.75 | D/AP23 | \$1.75 |
| 24 | .1520 | 2" | 3-1/8" | DWDN24 | \$0.94 | D/AN24 | \$1.75 | D/AP24 | \$1.75 |
| 25 | .1495 | 1-7/8" | 3" | DWDN25 | \$0.91 | D/AN25 | \$1.57 | D/AP25 | \$1.57 |
| 26 | .1470 | 1-7/8" | 3" | DWDN26 | \$0.91 | D/AN26 | \$1.57 | D/AP26 | \$1.57 |
| 27 | .1440 | 1-7/8" | 3" | DWDN27 | \$0.91 | D/AN27 | \$1.57 | D/AP27 | \$1.57 |
| 28 | .1405 | 1-3/4" | 2-7/8" | DWDN28 | \$0.83 | D/AN28 | \$1.47 | D/AP28 | \$1.47 |
| 29 | .1360 | 1-3/4" | 2-7/8" | DWDN29 | \$0.83 | D/AN29 | \$1.47 | D/AP29 | \$1.47 |
| 30 | .1285 | 1-5/8" | 2-3/4" | DWDN30 | \$0.83 | D/AN30 | \$1.43 | D/AP30 | \$1.43 |
| 31 | .1200 | 1-5/8" | 2-3/4" | DWDN31 | \$0.83 | D/AN31 | \$1.31 | D/AP31 | \$1.31 |
| 32 | .1160 | 1-5/8" | 2-3/4" | DWDN32 | \$0.83 | D/AN32 | \$1.31 | D/AP32 | \$1.31 |
| 33 | .1130 | 1-1/2" | 2-5/8" | DWDN33 | \$0.83 | D/AN33 | \$1.31 | D/AP33 | \$1.31 |
| 34 | .1110 | 1-1/2" | 2-5/8" | DWDN34 | \$0.83 | D/AN34 | \$1.31 | D/AP34 | \$1.31 |
| 35 | .1100 | 1-1/2" | 2-5/8" | DWDN35 | \$0.83 | D/AN35 | \$1.31 | D/AP35 | \$1.31 |
| 36 | .1065 | 1-7/16" | 2-1/2" | DWDN36 | \$0.83 | D/AN36 | \$1.31 | D/AP36 | \$1.31 |
| 37 | .1040 | 1-7/16" | 2-1/2" | DWDN37 | \$0.83 | D/AN37 | \$1.31 | D/AP37 | \$1.31 |
| 38 | .1015 | 1-7/16" | 2-1/2" | DWDN38 | \$0.83 | D/AN38 | \$1.31 | D/AP38 | \$1.31 |
| 39 | .0995 | 1-3/8" | 2-3/8" | DWDN39 | \$0.83 | D/AN39 | \$1.31 | D/AP39 | \$1.31 |
| 40 | .0980 | 1-3/8" | 2-3/8" | DWDN40 | \$0.83 | D/AN40 | \$1.31 | D/AP40 | \$1.31 |

HSS JOBBERS LENGTH DRILLS 118° POINT

W I R E G A U G E S I Z E S



| Size | Dec. Equiv. | Flute Length | O.A.L. | DWDN Series | | D/AN Series | | D/AP Series | |
|------|-------------|--------------|--------|-------------|------------|-------------|------------|-------------|------------|
| | | | | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 41 | .0960 | 1-3/8" | 2-3/8" | DWDN41 | \$0.94 | D/AN41 | \$1.31 | D/AP41 | \$1.31 |
| 42 | .0935 | 1-1/4" | 2-1/4" | DWDN42 | \$0.94 | D/AN42 | \$1.31 | D/AP42 | \$1.31 |
| 43 | .0890 | 1-1/4" | 2-1/4" | DWDN43 | \$0.94 | D/AN43 | \$1.31 | D/AP43 | \$1.31 |
| 44 | .0860 | 1-1/8" | 2-1/8" | DWDN44 | \$0.94 | D/AN44 | \$1.31 | D/AP44 | \$1.31 |
| 45 | .0820 | 1-1/8" | 2-1/8" | DWDN45 | \$0.94 | D/AN45 | \$1.40 | D/AP45 | \$1.40 |
| 46 | .0810 | 1-1/8" | 2-1/8" | DWDN46 | \$0.94 | D/AN46 | \$1.40 | D/AP46 | \$1.40 |
| 47 | .0785 | 1" | 2" | DWDN47 | \$0.94 | D/AN47 | \$1.40 | D/AP47 | \$1.40 |
| 48 | .0760 | 1" | 2" | DWDN48 | \$0.94 | D/AN48 | \$1.40 | D/AP48 | \$1.40 |
| 49 | .0730 | 1" | 2" | DWDN49 | \$0.94 | D/AN49 | \$1.40 | D/AP49 | \$1.40 |
| 50 | .0700 | 1" | 2" | DWDN50 | \$0.94 | D/AN50 | \$1.40 | D/AP50 | \$1.40 |
| 51 | .0670 | 1" | 2" | DWDN51 | \$0.94 | D/AN51 | \$1.40 | D/AP51 | \$1.40 |
| 52 | .0635 | 7/8" | 1-7/8" | DWDN52 | \$0.94 | D/AN52 | \$1.40 | D/AP52 | \$1.40 |
| 53 | .0595 | 7/8" | 1-7/8" | DWDN53 | \$0.94 | D/AN53 | \$1.40 | D/AP53 | \$1.40 |
| 54 | .0550 | 7/8" | 1-7/8" | DWDN54 | \$0.94 | D/AN54 | \$1.40 | D/AP54 | \$1.40 |
| 55 | .0520 | 7/8" | 1-7/8" | DWDN55 | \$0.94 | D/AN55 | \$1.40 | D/AP55 | \$1.40 |
| 56 | .0465 | 3/4" | 1-3/4" | DWDN56 | \$0.94 | D/AN56 | \$1.40 | D/AP56 | \$1.40 |
| 57 | .0430 | 3/4" | 1-3/4" | DWDN57 | \$0.94 | D/AN57 | \$1.54 | D/AP57 | \$1.54 |
| 58 | .0420 | 11/16" | 1-5/8" | DWDN58 | \$0.94 | D/AN58 | \$1.60 | D/AP58 | \$1.60 |
| 59 | .0410 | 11/16" | 1-5/8" | DWDN59 | \$0.94 | D/AN59 | \$1.60 | D/AP59 | \$1.60 |
| 60 | .0400 | 11/16" | 1-5/8" | DWDN60 | \$0.94 | D/AN60 | \$1.60 | D/AP60 | \$1.60 |
| 61 | .0390 | 11/16" | 1-5/8" | DWDN61 | \$1.01 | D/AN61 | \$1.71 | D/AP61 | \$1.71 |
| 62 | .0380 | 5/8" | 1-1/2" | DWDN62 | \$1.01 | D/AN62 | \$1.71 | D/AP62 | \$1.71 |
| 63 | .0370 | 5/8" | 1-1/2" | DWDN63 | \$1.01 | D/AN63 | \$1.71 | D/AP63 | \$1.71 |
| 64 | .0360 | 5/8" | 1-1/2" | DWDN64 | \$1.01 | D/AN64 | \$1.71 | D/AP64 | \$1.71 |
| 65 | .0350 | 5/8" | 1-1/2" | DWDN65 | \$1.01 | D/AN65 | \$1.71 | D/AP65 | \$1.71 |
| 66 | .0330 | 1/2" | 1-3/8" | DWDN66 | \$1.01 | D/AN66 | \$1.71 | D/AP66 | \$1.71 |
| 67 | .0320 | 1/2" | 1-3/8" | DWDN67 | \$1.01 | D/AN67 | \$1.71 | D/AP67 | \$1.71 |
| 68 | .0310 | 1/2" | 1-3/8" | DWDN68 | \$1.01 | D/AN68 | \$1.71 | D/AP68 | \$1.71 |
| 69 | .0292 | 1/2" | 1-3/8" | DWDN69 | \$1.01 | D/AN69 | \$2.10 | D/AP69 | \$2.10 |
| 70 | .0280 | 3/8" | 1-1/4" | DWDN70 | \$1.01 | D/AN70 | \$2.10 | D/AP70 | \$2.10 |
| 71 | .0260 | 3/8" | 1-1/4" | DWDN71 | \$1.38 | D/AN71 | \$2.10 | D/AP71 | \$2.10 |
| 72 | .0250 | 5/16" | 1-1/8" | DWDN72 | \$1.38 | D/AN72 | \$2.10 | D/AP72 | \$2.10 |
| 73 | .0240 | 5/16" | 1-1/8" | DWDN73 | \$1.38 | D/AN73 | \$2.10 | D/AP73 | \$2.10 |
| 74 | .0225 | 1/4" | 1" | DWDN74 | \$1.38 | D/AN74 | \$2.10 | D/AP74 | \$2.10 |
| 75 | .0210 | 1/4" | 1" | DWDN75 | \$1.38 | D/AN75 | \$2.33 | D/AP75 | \$2.33 |
| 76 | .0200 | 3/16" | 7/8" | DWDN76 | \$1.38 | D/AN76 | \$2.33 | D/AP76 | \$2.33 |
| 77 | .0180 | 3/16" | 7/8" | DWDN77 | \$1.38 | D/AN77 | \$2.33 | D/AP77 | \$2.33 |
| 78 | .0160 | 3/16" | 7/8" | DWDN78 | \$1.38 | D/AN78 | \$2.33 | D/AP78 | \$2.33 |
| 79 | .0145 | 1/8" | 3/4" | DWDN79 | \$1.38 | D/AN79 | \$2.33 | D/AP79 | \$2.33 |
| 80 | .0135 | 1/8" | 3/4" | DWDN80 | \$1.38 | D/AN80 | \$2.33 | D/AP80 | \$2.33 |

HSS JOBBERS LENGTH DRILLS 135° SPLIT POINT

DWDSP Series - Economy

D/ASP Series - Premium Quality

Manufactured to National Aerospace Standard 907, these drills are ideal for portable or machine drilling of low tensile strength alloy materials. They have a black oxide surface treatment that is abrasion resistant, reduces chip welding and improves chip flow. The 135° split point is self-centering and reduces thrust.



KFD Series - Premium Quality

Manufactured from premium grade high speed steel, Killer Force Drills have a heavy duty 135° split point for self-centering and reducing thrust. Black and Gold surface treated for use in stainless steel and other hard metal drilling.

KFD3F - Contractor Grade

Manufactured from M1 High Speed Steel for use in a wide range of materials such as aluminum, iron and steel. They are gold and black surface treated with a 3-flat shank for extra secure hold in your chuck. Split point tip for self-centering and reducing thrust.

*Sizes smaller than 3/16" have a round shank.



F R A C T I O N A L S I Z E S

| | | | | DWDSP Series | | D/ASP Series | | KFD3F Series | | KFD Series | |
|--------|-------------|--------------|--------|--------------|------------|--------------|------------|--------------|------------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 1/16" | .0625 | 7/8" | 1-7/8" | DWDSP1/16 | \$1.23 | D/ASP1/16 | \$1.41 | *KFD3F1/16 | \$0.88 | KFD1/16 | \$1.09 |
| 5/64" | .0781 | 1" | 2" | DWDSP5/64 | \$1.23 | D/ASP5/64 | \$1.50 | *KFD3F5/64 | \$0.92 | KFD5/64 | \$1.14 |
| 3/32" | .0938 | 1-1/4" | 2-1/4" | DWDSP3/32 | \$1.23 | D/ASP3/32 | \$1.29 | *KFD3F3/32 | \$0.92 | KFD3/32 | \$1.14 |
| 7/64" | .1094 | 1-1/2" | 2-5/8" | DWDSP7/64 | \$1.31 | D/ASP7/64 | \$1.37 | *KFD3F7/64 | \$0.92 | KFD7/64 | \$1.14 |
| 1/8" | .1250 | 1-5/8" | 2-3/4" | DWDSP1/8 | \$1.23 | D/ASP1/8 | \$1.50 | *KFD3F1/8 | \$0.92 | KFD1/8 | \$1.14 |
| 9/64" | .1406 | 1-3/4" | 2-7/8" | DWDSP9/64 | \$1.38 | D/ASP9/64 | \$1.67 | *KFD3F9/64 | \$1.02 | KFD9/64 | \$1.27 |
| 5/32" | .1562 | 2" | 3-1/8" | DWDSP5/32 | \$1.47 | D/ASP5/32 | \$1.99 | *KFD3F5/32 | \$1.22 | KFD5/32 | \$1.52 |
| 11/64" | .1719 | 2-1/8" | 3-1/4" | DWDSP11/64 | \$1.55 | D/ASP11/64 | \$2.17 | *KFD3F11/64 | \$1.37 | KFD11/64 | \$1.71 |
| 3/16" | .1875 | 2-5/16" | 3-1/2" | DWDSP3/16 | \$1.72 | D/ASP3/16 | \$2.34 | KFD3F3/16 | \$1.44 | KFD3/16 | \$1.81 |
| 13/64" | .2031 | 2-7/16" | 3-5/8" | DWDSP13/64 | \$1.87 | D/ASP13/64 | \$2.69 | KFD3F13/64 | \$1.73 | KFD13/64 | \$2.16 |
| 7/32" | .2188 | 2-1/2" | 3-3/4" | DWDSP7/32 | \$2.17 | D/ASP7/32 | \$2.84 | KFD3F7/32 | \$1.83 | KFD7/32 | \$2.29 |
| 15/64" | .2344 | 2-5/8" | 3-7/8" | DWDSP15/64 | \$2.37 | D/ASP15/64 | \$3.16 | KFD3F15/64 | \$2.03 | KFD15/64 | \$2.55 |
| 1/4" | .2500 | 2-3/4" | 4" | DWDSP1/4 | \$2.42 | D/ASP1/4 | \$3.16 | KFD3F1/4 | \$2.04 | KFD1/4 | \$2.55 |
| 17/64" | .2656 | 2-7/8" | 4-1/8" | DWDSP17/64 | \$2.94 | D/ASP17/64 | \$4.32 | KFD3F17/64 | \$2.96 | KFD17/64 | \$3.70 |
| 9/32" | .2812 | 2-15/16" | 4-1/4" | DWDSP9/32 | \$3.03 | D/ASP9/32 | \$4.39 | KFD3F9/32 | \$3.08 | KFD9/32 | \$3.85 |
| 19/64" | .2969 | 3-1/16" | 4-3/8" | DWDSP19/64 | \$3.52 | D/ASP19/64 | \$5.21 | KFD3F19/64 | \$3.43 | KFD19/64 | \$4.29 |
| 5/16" | .3125 | 3-3/16" | 4-1/2" | DWDSP5/16 | \$3.81 | D/ASP5/16 | \$5.50 | KFD3F5/16 | \$3.51 | KFD5/16 | \$4.39 |
| 21/64" | .3281 | 3-5/16" | 4-5/8" | DWDSP21/64 | \$4.32 | D/ASP21/64 | \$6.14 | KFD3F21/64 | \$4.09 | KFD21/64 | \$5.10 |
| 11/32" | .3438 | 3-7/16" | 4-3/4" | DWDSP11/32 | \$4.77 | D/ASP11/32 | \$6.93 | KFD3F11/32 | \$4.73 | KFD11/32 | \$5.92 |
| 23/64" | .3594 | 3-1/2" | 4-7/8" | DWDSP23/64 | \$5.42 | D/ASP23/64 | \$7.61 | KFD3F23/64 | \$5.10 | KFD23/64 | \$6.38 |
| 3/8" | .3750 | 3-5/8" | 5" | DWDSP3/8 | \$5.43 | D/ASP3/8 | \$7.61 | KFD3F3/8 | \$5.10 | KFD3/8 | \$6.38 |
| 25/64" | .3906 | 3-3/4" | 5-1/8" | DWDSP25/64 | \$6.33 | D/ASP25/64 | \$8.96 | KFD3F25/64 | \$6.01 | KFD25/64 | \$7.51 |
| 13/32" | .4062 | 3-7/8" | 5-1/4" | DWDSP13/32 | \$6.50 | D/ASP13/32 | \$9.36 | KFD3F13/32 | \$6.29 | KFD13/32 | \$7.86 |
| 27/64" | .4219 | 3-15/16" | 5-3/8" | DWDSP27/64 | \$7.24 | D/ASP27/64 | \$10.43 | KFD3F27/64 | \$6.98 | KFD27/64 | \$8.72 |
| 7/16" | .4375 | 4-1/16" | 5-1/2" | DWDSP7/16 | \$7.35 | D/ASP7/16 | \$10.80 | KFD3F7/16 | \$7.50 | KFD7/16 | \$9.37 |
| 29/64" | .4531 | 4-3/16" | 5-5/8" | DWDSP29/64 | \$8.44 | D/ASP29/64 | \$12.19 | KFD3F29/64 | \$8.58 | KFD29/64 | \$10.73 |
| 15/32" | .4688 | 4-5/16" | 5-3/4" | DWDSP15/32 | \$8.83 | D/ASP15/32 | \$12.79 | KFD3F15/32 | \$9.31 | KFD15/32 | \$11.64 |
| 31/64" | .4844 | 4-3/8" | 5-7/8" | DWDSP31/64 | \$9.38 | D/ASP31/64 | \$13.69 | KFD3F31/64 | \$9.69 | KFD31/64 | \$12.12 |
| 1/2" | .5000 | 4-1/2" | 6" | DWDSP1/2 | \$9.52 | D/ASP1/2 | \$13.36 | KFD3F1/2 | \$9.42 | KFD1/2 | \$11.77 |

HSS JOBBERS LENGTH DRILLS 135° SPLIT POINT

LETTER SIZES

| | | | | DWDSP Series | | D/ASP Series | | KFD Series | |
|------|-------------|--------------|--------|--------------|------------|--------------|------------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| A | .2340 | 2-5/8" | 3-7/8" | DWDSPA | \$3.26 | D/ASPA | \$3.86 | KFDA | \$4.17 |
| B | .2380 | 2-3/4" | 4" | DWDSPB | \$3.26 | D/ASPB | \$3.86 | KFDB | \$4.17 |
| C | .2420 | 2-3/4" | 4" | DWDSPC | \$3.12 | D/ASPC | \$3.67 | KFDC | \$3.99 |
| D | .2460 | 2-3/4" | 4" | DWDSPD | \$3.12 | D/ASPD | \$3.67 | KFDD | \$3.99 |
| E | .2500 | 2-3/4" | 4" | DWDSPE | \$3.12 | D/ASPE | \$3.67 | KFDE | \$3.99 |
| F | .2570 | 2-7/8" | 4-1/8" | DWDSPF | \$3.54 | D/ASPF | \$4.17 | KFDF | \$4.53 |
| G | .2610 | 2-7/8" | 4-1/8" | DWDSPG | \$3.66 | D/ASPG | \$4.31 | KFDG | \$4.68 |
| H | .2660 | 2-7/8" | 4-1/8" | DWDSPH | \$3.78 | D/ASPH | \$4.48 | KFDH | \$4.80 |
| I | .2720 | 2-7/8" | 4-1/8" | DWDSPI | \$3.78 | D/ASPI | \$4.48 | KFDI | \$5.80 |
| J | .2770 | 2-7/8" | 4-1/8" | DWDSPJ | \$4.19 | D/ASPJ | \$4.96 | KFDJ | \$5.72 |
| K | .2810 | 2-15/16" | 4-1/4" | DWDSPK | \$4.52 | D/ASPK | \$5.32 | KFDK | \$5.72 |
| L | .2900 | 2-15/16" | 4-1/4" | DWDSPL | \$4.73 | D/ASPL | \$5.58 | KFDL | \$6.51 |
| M | .2950 | 3-1/16" | 4-3/8" | DWDSPM | \$5.01 | D/ASPM | \$5.93 | KFDM | \$6.91 |
| N | .3020 | 3-1/16" | 4-3/8" | DWDSPN | \$5.01 | D/ASPN | \$5.93 | KFDN | \$6.91 |
| O | .3160 | 3-3/16" | 4-1/2" | DWDSPO | \$5.01 | D/ASPO | \$5.93 | KFDO | \$6.91 |
| P | .3230 | 3-5/16" | 4-5/8" | DWDSPP | \$5.67 | D/ASPP | \$6.67 | KFDP | \$7.50 |
| Q | .3320 | 3-7/16" | 4-3/4" | DWDSPPQ | \$5.67 | D/ASPPQ | \$6.67 | KFDQ | \$7.50 |
| R | .3390 | 3-7/16" | 4-3/4" | DWDSPPR | \$5.67 | D/ASPPR | \$6.67 | KFDR | \$7.50 |
| S | .3480 | 3-1/2" | 4-7/8" | DWDSPPS | \$6.50 | D/ASPPS | \$7.68 | KFDS | \$8.75 |
| T | .3580 | 3-1/2" | 4-7/8" | DWDSPPSPT | \$6.63 | D/ASPPSPT | \$7.82 | KFDT | \$8.75 |
| U | .3680 | 3-5/8" | 5" | DWDSPPU | \$7.13 | D/ASPPU | \$8.41 | KFDU | \$9.46 |
| V | .3770 | 3-5/8" | 5" | DWDSPPV | \$7.13 | D/ASPPV | \$8.41 | KFDV | \$9.46 |
| W | .3860 | 3-3/4" | 5-1/8" | DWDSPPW | \$7.66 | D/ASPPW | \$9.05 | KFDW | \$10.12 |
| X | .3970 | 3-3/4" | 5-1/8" | DWDSPPX | \$8.98 | D/ASPPX | \$10.61 | KFDX | \$11.96 |
| Y | .4040 | 3-7/8" | 5-1/4" | DWDSPPY | \$9.68 | D/ASPPY | \$11.42 | KFDY | \$12.75 |
| Z | .4130 | 3-7/8" | 5-1/4" | DWDSPPZ | \$10.42 | D/ASPPZ | \$12.31 | KFDZ | \$13.78 |



METRIC JOBBERS DRILLS 135° SPLIT POINT

KFDMM Series - Metric

Manufactured from premium grade high speed steel, Killer Force Drills have a heavy duty 135° split point for self-centering and reducing thrust. Black and Gold surface treated for use in stainless steel and other hard metal drilling.



METRIC SIZES

| | | | | KFDMM Series | | | | | | KFDMM Series | |
|-------|-------------|--------------|--------|--------------|------------|-------|-------------|--------------|--------|--------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| *1.00 | .0394 | 17 | 41 | KFDMM1.00 | \$2.17 | 7.50 | .2953 | 78 | 111 | KFDMM7.50 | \$6.03 |
| *1.50 | .0591 | 22 | 48 | KFDMM1.50 | \$1.86 | 8.00 | .3150 | 81 | 114 | KFDMM8.00 | \$7.88 |
| 2.00 | .0787 | 25 | 51 | KFDMM2.00 | \$1.71 | 8.50 | .3346 | 87 | 121 | KFDMM8.50 | \$7.88 |
| 2.50 | .0984 | 35 | 60 | KFDMM2.50 | \$1.71 | 9.00 | .3543 | 89 | 124 | KFDMM9.00 | \$9.57 |
| 3.00 | .1181 | 41 | 70 | KFDMM3.00 | \$2.01 | 9.50 | .3740 | 92 | 127 | KFDMM9.50 | \$10.53 |
| 3.50 | .1378 | 48 | 73 | KFDMM3.50 | \$2.14 | 10.00 | .3937 | 95 | 130 | KFDMM10.00 | \$12.08 |
| 4.00 | .1575 | 54 | 83 | KFDMM4.00 | \$2.45 | 10.50 | .4134 | 98 | 133 | KFDMM10.50 | \$12.41 |
| 4.50 | .1772 | 56 | 86 | KFDMM4.50 | \$2.89 | 11.00 | .4331 | 103 | 140 | KFDMM11.00 | \$14.33 |
| 5.00 | .1969 | 62 | 92 | KFDMM5.00 | \$3.27 | 11.50 | .4528 | 106 | 143 | KFDMM11.50 | \$16.75 |
| 5.50 | .2165 | 64 | 95 | KFDMM5.50 | \$3.55 | 12.00 | .4724 | 111 | 149 | KFDMM12.00 | \$18.08 |
| 6.00 | .2362 | 70 | 102 | KFDMM6.00 | \$4.39 | 12.50 | .4921 | 114 | 152 | KFDMM12.50 | \$18.08 |
| 6.50 | .2559 | 73 | 105 | KFDMM6.50 | \$5.18 | 13.00 | .5118 | 114 | 152 | KFDMM13.00 | \$22.38 |
| 7.00 | .2756 | 73 | 105 | KFDMM7.00 | \$6.03 | | | | | | |

*118° Standard Point

HSS JOBBERS LENGTH DRILLS 135° SPLIT POINT

WIRE GAUGE SIZES

| Size | Dec. Equiv. | Flute Length | O.A.L. | DWDSP Series | | D/ASP Series | | KFD Series | |
|------|-------------|--------------|--------|--------------|------------|--------------|------------|-------------|------------|
| | | | | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 1 | .2280 | 2-5/8" | 3-7/8" | DWDSP1 | \$2.48 | D/ASP1 | \$3.23 | KFD1 | \$2.64 |
| 2 | .2210 | 2-5/8" | 3-7/8" | DWDSP2 | \$2.48 | D/ASP2 | \$3.23 | KFD2 | \$2.64 |
| 3 | .2130 | 2-1/2" | 3-3/4" | DWDSP3 | \$2.29 | D/ASP3 | \$2.96 | KFD3 | \$2.42 |
| 4 | .2090 | 2-1/2" | 3-3/4" | DWDSP4 | \$2.29 | D/ASP4 | \$2.96 | KFD4 | \$2.42 |
| 5 | .2055 | 2-1/2" | 3-3/4" | DWDSP5 | \$2.29 | D/ASP5 | \$2.96 | KFD5 | \$2.42 |
| 6 | .2040 | 2-1/2" | 3-3/4" | DWDSP6 | \$2.29 | D/ASP6 | \$2.96 | KFD6 | \$2.42 |
| 7 | .2010 | 2-7/16" | 3-5/8" | DWDSP7 | \$2.09 | D/ASP7 | \$2.78 | KFD7 | \$2.30 |
| 8 | .1990 | 2-7/16" | 3-5/8" | DWDSP8 | \$2.09 | D/ASP8 | \$2.78 | KFD8 | \$2.30 |
| 9 | .1960 | 2-7/16" | 3-5/8" | DWDSP9 | \$2.09 | D/ASP9 | \$2.78 | KFD9 | \$2.30 |
| 10 | .1935 | 2-7/16" | 3-5/8" | DWDSP10 | \$1.99 | D/ASP10 | \$2.57 | KFD10 | \$2.13 |
| 11 | .1910 | 2-5/16" | 3-1/2" | DWDSP11 | \$1.93 | D/ASP11 | \$2.57 | KFD11 | \$2.13 |
| 12 | .1890 | 2-5/16" | 3-1/2" | DWDSP12 | \$1.93 | D/ASP12 | \$2.57 | KFD12 | \$2.13 |
| 13 | .1850 | 2-5/16" | 3-1/2" | DWDSP13 | \$1.88 | D/ASP13 | \$2.57 | KFD13 | \$2.07 |
| 14 | .1820 | 2-3/16" | 3-3/8" | DWDSP14 | \$1.88 | D/ASP14 | \$2.50 | KFD14 | \$1.97 |
| 15 | .1800 | 2-3/16" | 3-3/8" | DWDSP15 | \$1.88 | D/ASP15 | \$2.50 | KFD15 | \$1.97 |
| 16 | .1770 | 2-3/16" | 3-3/8" | DWDSP16 | \$1.88 | D/ASP16 | \$2.50 | KFD16 | \$1.97 |
| 17 | .1730 | 2-3/16" | 3-3/8" | DWDSP17 | \$1.88 | D/ASP17 | \$2.26 | KFD17 | \$1.78 |
| 18 | .1695 | 2-1/8" | 3-1/4" | DWDSP18 | \$1.55 | D/ASP18 | \$2.16 | KFD18 | \$1.78 |
| 19 | .1660 | 2-1/8" | 3-1/4" | DWDSP19 | \$1.55 | D/ASP19 | \$2.16 | KFD19 | \$1.78 |
| 20 | .1610 | 2-1/8" | 3-1/4" | DWDSP20 | \$1.55 | D/ASP20 | \$2.11 | KFD20 | \$1.67 |
| 21 | .1590 | 2-1/8" | 3-1/4" | DWDSP21 | \$1.47 | D/ASP21 | \$2.07 | KFD21 | \$1.67 |
| 22 | .1570 | 2" | 3-1/8" | DWDSP22 | \$1.47 | D/ASP22 | \$2.07 | KFD22 | \$1.65 |
| 23 | .1540 | 2" | 3-1/8" | DWDSP23 | \$1.43 | D/ASP23 | \$1.99 | KFD23 | \$1.65 |
| 24 | .1520 | 2" | 3-1/8" | DWDSP24 | \$1.43 | D/ASP24 | \$1.99 | KFD24 | \$1.65 |
| 25 | .1495 | 1-7/8" | 3" | DWDSP25 | \$1.39 | D/ASP25 | \$1.81 | KFD25 | \$1.40 |
| 26 | .1470 | 1-7/8" | 3" | DWDSP26 | \$1.39 | D/ASP26 | \$1.81 | KFD26 | \$1.40 |
| 27 | .1440 | 1-7/8" | 3" | DWDSP27 | \$1.39 | D/ASP27 | \$1.81 | KFD27 | \$1.40 |
| 28 | .1405 | 1-3/4" | 2-7/8" | DWDSP28 | \$1.26 | D/ASP28 | \$1.73 | KFD28 | \$1.38 |
| 29 | .1360 | 1-3/4" | 2-7/8" | DWDSP29 | \$1.26 | D/ASP29 | \$1.73 | KFD29 | \$1.38 |
| 30 | .1285 | 1-5/8" | 2-3/4" | DWDSP30 | \$1.26 | D/ASP30 | \$1.65 | KFD30 | \$1.28 |
| 31 | .1200 | 1-5/8" | 2-3/4" | DWDSP31 | \$1.26 | D/ASP31 | \$1.53 | KFD31 | \$1.26 |
| 32 | .1160 | 1-5/8" | 2-3/4" | DWDSP32 | \$1.26 | D/ASP32 | \$1.53 | KFD32 | \$1.26 |
| 33 | .1130 | 1-1/2" | 2-5/8" | DWDSP33 | \$1.26 | D/ASP33 | \$1.53 | KFD33 | \$1.26 |
| 34 | .1110 | 1-1/2" | 2-5/8" | DWDSP34 | \$1.26 | D/ASP34 | \$1.53 | KFD34 | \$1.26 |
| 35 | .1100 | 1-1/2" | 2-5/8" | DWDSP35 | \$1.26 | D/ASP35 | \$1.53 | KFD35 | \$1.26 |
| 36 | .1065 | 1-7/16" | 2-1/2" | DWDSP36 | \$1.26 | D/ASP36 | \$1.53 | KFD36 | \$1.26 |
| 37 | .1040 | 1-7/16" | 2-1/2" | DWDSP37 | \$1.26 | D/ASP37 | \$1.53 | KFD37 | \$1.26 |
| 38 | .1015 | 1-7/16" | 2-1/2" | DWDSP38 | \$1.26 | D/ASP38 | \$1.53 | KFD38 | \$1.26 |
| 39 | .0995 | 1-3/8" | 2-3/8" | DWDSP39 | \$1.26 | D/ASP39 | \$1.53 | KFD39 | \$1.26 |
| 40 | .0980 | 1-3/8" | 2-3/8" | DWDSP40 | \$1.26 | D/ASP40 | \$1.53 | KFD40 | \$1.26 |
| 41 | .0960 | 1-3/8" | 2-3/8" | DWDSP41 | \$1.26 | D/ASP41 | \$1.53 | KFD41 | \$1.26 |
| 42 | .0935 | 1-1/4" | 2-1/4" | DWDSP42 | \$1.26 | D/ASP42 | \$1.53 | KFD42 | \$1.26 |
| 43 | .0890 | 1-1/4" | 2-1/4" | DWDSP43 | \$1.26 | D/ASP43 | \$1.53 | KFD43 | \$1.22 |
| 44 | .0860 | 1-1/8" | 2-1/8" | DWDSP44 | \$1.26 | D/ASP44 | \$1.53 | KFD44 | \$1.22 |
| 45 | .0820 | 1-1/8" | 2-1/8" | DWDSP45 | \$1.26 | D/ASP45 | \$1.53 | KFD45 | \$1.22 |
| 46 | .0810 | 1-1/8" | 2-1/8" | DWDSP46 | \$1.26 | D/ASP46 | \$1.53 | KFD46 | \$1.22 |
| 47 | .0785 | 1" | 2" | DWDSP47 | \$1.26 | D/ASP47 | \$1.53 | KFD47 | \$1.22 |
| 48 | .0760 | 1" | 2" | DWDSP48 | \$1.26 | D/ASP48 | \$1.53 | KFD48 | \$1.22 |
| 49 | .0730 | 1" | 2" | DWDSP49 | \$1.26 | D/ASP49 | \$1.53 | KFD49 | \$1.22 |
| 50 | .0700 | 1" | 2" | DWDSP50 | \$1.26 | D/ASP50 | \$1.53 | KFD50 | \$1.22 |
| 51 | .0670 | 1" | 2" | DWDSP51 | \$1.26 | D/ASP51 | \$1.53 | KFD51 | \$1.22 |
| 52 | .0635 | 7/8" | 1-7/8" | DWDSP52 | \$1.26 | D/ASP52 | \$1.53 | KFD52 | \$1.18 |
| *53 | .0595 | 7/8" | 1-7/8" | - | - | - | - | KFD53 | \$1.18 |
| *54 | .0550 | 7/8" | 1-7/8" | - | - | - | - | KFD54 | \$1.18 |
| *55 | .0520 | 7/8" | 1-7/8" | - | - | - | - | KFD55 | \$1.18 |
| *56 | .0495 | 3/4" | 1-3/4" | - | - | - | - | KFD56 | \$1.18 |
| *57 | .0430 | 3/4" | 1-3/4" | - | - | - | - | KFD57 | \$1.18 |
| *58 | .0420 | 11/16" | 1-5/8" | - | - | - | - | KFD58 | \$1.18 |
| *59 | .0410 | 11/16" | 1-5/8" | - | - | - | - | KFD59 | \$1.18 |
| *60 | .0400 | 11/16" | 1-5/8" | - | - | - | - | KFD60 | \$1.18 |



*118° Standard Point

COBALT JOBBERS LENGTH DRILLS 135° SPLIT POINT

DWDCO Series - m35 Cobalt

D/ACO Series - m42 Cobalt

Manufactured to National Aerospace standard 907. Made of heat resistant cobalt, they display higher red hardness which permits speeds up to 30% greater than high speed steel drills and are especially effective in drilling tough, high tensile strength materials like PH stainless steel, inconel, and titanium. The 135° split point is self-centering and reduces thrust. Sizes smaller than 1/16" have the 118° standard point.



F R A C T I O N A L S I Z E S

| Size | Dec. Equiv. | Flute Length | O.A.L. | DWDCO Series | | D/ACO Series | |
|--------|-------------|--------------|--------|--------------|------------|--------------|------------|
| | | | | Part Number | List Price | Part Number | List Price |
| *1/64" | .0156 | 3/16" | 3/4" | DWDCO1/64 | \$3.12 | D/ACO1/64 | \$4.28 |
| *1/32" | .0312 | 1/2" | 1-3/8" | DWDCO1/32 | \$2.48 | D/ACO1/32 | \$3.40 |
| *3/64" | .0469 | 3/4" | 1-3/4" | DWDCO3/64 | \$1.83 | D/ACO3/64 | \$2.51 |
| 1/16" | .0625 | 7/8" | 1-7/8" | DWDCO1/16 | \$1.74 | D/ACO1/16 | \$2.20 |
| 5/64" | .0781 | 1" | 2" | DWDCO5/64 | \$1.74 | D/ACO5/64 | \$2.20 |
| 3/32" | .0938 | 1-1/4" | 2-1/4" | DWDCO3/32 | \$1.74 | D/ACO3/32 | \$2.20 |
| 7/64" | .1094 | 1-1/2" | 2-5/8" | DWDCO7/64 | \$1.83 | D/ACO7/64 | \$2.29 |
| 1/8" | .1250 | 1-5/8" | 2-3/4" | DWDCO1/8 | \$2.27 | D/ACO1/8 | \$2.80 |
| 9/64" | .1406 | 1-3/4" | 2-7/8" | DWDCO9/64 | \$2.27 | D/ACO9/64 | \$2.83 |
| 5/32" | .1562 | 2" | 3-1/8" | DWDCO5/32 | \$2.52 | D/ACO5/32 | \$3.48 |
| 11/64" | .1719 | 2-1/8" | 3-1/4" | DWDCO11/64 | \$2.67 | D/ACO11/64 | \$3.74 |
| 3/16" | .1875 | 2-5/16" | 3-1/2" | DWDCO3/16 | \$2.99 | D/ACO3/16 | \$4.10 |
| 13/64" | .2031 | 2-7/16" | 3-5/8" | DWDCO13/64 | \$3.59 | D/ACO13/64 | \$4.91 |
| 7/32" | .2188 | 2-1/2" | 3-3/4" | DWDCO7/32 | \$3.92 | D/ACO7/32 | \$5.56 |
| 15/64" | .2344 | 2-5/8" | 3-7/8" | DWDCO15/64 | \$4.19 | D/ACO15/64 | \$5.88 |
| 1/4" | .2500 | 2-3/4" | 4" | DWDCO1/4 | \$4.46 | D/ACO1/4 | \$6.15 |
| 17/64" | .2656 | 2-7/8" | 4-1/8" | DWDCO17/64 | \$5.25 | D/ACO17/64 | \$7.62 |
| 9/32" | .2812 | 2-15/16" | 4-1/4" | DWDCO9/32 | \$5.50 | D/ACO9/32 | \$8.46 |
| 19/64" | .2969 | 3-1/16" | 4-3/8" | DWDCO19/64 | \$6.70 | D/ACO19/64 | \$9.20 |
| 5/16" | .3125 | 3-3/16" | 4-1/2" | DWDCO5/16 | \$7.14 | D/ACO5/16 | \$9.81 |
| 21/64" | .3281 | 3-5/16" | 4-5/8" | DWDCO21/64 | \$7.97 | D/ACO21/64 | \$11.04 |
| 11/32" | .3438 | 3-7/16" | 4-3/4" | DWDCO11/32 | \$8.72 | D/ACO11/32 | \$11.89 |
| 23/64" | .3594 | 3-1/2" | 4-7/8" | DWDCO23/64 | \$10.05 | D/ACO23/64 | \$14.02 |
| 3/8" | .3750 | 3-5/8" | 5" | DWDCO3/8 | \$10.05 | D/ACO3/8 | \$13.68 |
| 25/64" | .3906 | 3-3/4" | 5-1/8" | DWDCO25/64 | \$11.53 | D/ACO25/64 | \$15.92 |
| 13/32" | .4062 | 3-7/8" | 5-1/4" | DWDCO13/32 | \$12.03 | D/ACO13/32 | \$16.92 |
| 27/64" | .4219 | 3-15/16" | 5-3/8" | DWDCO27/64 | \$13.29 | D/ACO27/64 | \$18.26 |
| 7/16" | .4375 | 4-1/16" | 5-1/2" | DWDCO7/16 | \$14.14 | D/ACO7/16 | \$18.92 |
| 29/64" | .4531 | 4-3/16" | 5-5/8" | DWDCO29/64 | \$17.30 | D/ACO29/64 | \$22.62 |
| 15/32" | .4688 | 4-5/16" | 5-3/4" | DWDCO15/32 | \$17.63 | D/ACO15/32 | \$23.16 |
| 31/64" | .4844 | 4-3/8" | 5-7/8" | DWDCO31/64 | \$18.16 | D/ACO31/64 | \$24.44 |
| 1/2" | .5000 | 4-1/2" | 6" | DWDCO1/2 | \$18.16 | D/ACO1/2 | \$23.88 |

*118° Standard Point

COBALT JOBBERS LENGTH DRILLS 135° SPLIT POINT

W I R E G A U G E S I Z E S

| | | | | DWDCO Series | | D/ACO Series | |
|------|-------------|--------------|--------|--------------|------------|--------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 1 | .2280 | 2-5/8" | 3-7/8" | DWDCO1 | \$4.69 | D/ACO1 | \$6.43 |
| 2 | .2210 | 2-5/8" | 3-7/8" | DWDCO2 | \$4.69 | D/ACO2 | \$6.43 |
| 3 | .2130 | 2-1/2" | 3-3/4" | DWDCO3 | \$4.39 | D/ACO3 | \$6.04 |
| 4 | .2090 | 2-1/2" | 3-3/4" | DWDCO4 | \$4.39 | D/ACO4 | \$6.04 |
| 5 | .2055 | 2-1/2" | 3-3/4" | DWDCO5 | \$4.39 | D/ACO5 | \$6.04 |
| 6 | .2040 | 2-1/2" | 3-3/4" | DWDCO6 | \$4.39 | D/ACO6 | \$6.04 |
| 7 | .2010 | 2-7/16" | 3-5/8" | DWDCO7 | \$3.41 | D/ACO7 | \$4.71 |
| 8 | .1990 | 2-7/16" | 3-5/8" | DWDCO8 | \$3.41 | D/ACO8 | \$4.71 |
| 9 | .1960 | 2-7/16" | 3-5/8" | DWDCO9 | \$3.41 | D/ACO9 | \$4.71 |
| 10 | .1935 | 2-7/16" | 3-5/8" | DWDCO10 | \$3.41 | D/ACO10 | \$4.71 |
| 11 | .1910 | 2-5/16" | 3-1/2" | DWDCO11 | \$3.41 | D/ACO11 | \$4.71 |
| 12 | .1890 | 2-5/16" | 3-1/2" | DWDCO12 | \$3.41 | D/ACO12 | \$4.71 |
| 13 | .1850 | 2-5/16" | 3-1/2" | DWDCO13 | \$3.28 | D/ACO13 | \$4.49 |
| 14 | .1820 | 2-3/16" | 3-3/8" | DWDCO14 | \$3.28 | D/ACO14 | \$4.49 |
| 15 | .1800 | 2-3/16" | 3-3/8" | DWDCO15 | \$3.28 | D/ACO15 | \$4.49 |
| 16 | .1770 | 2-3/16" | 3-3/8" | DWDCO16 | \$3.04 | D/ACO16 | \$4.17 |
| 17 | .1730 | 2-3/16" | 3-3/8" | DWDCO17 | \$2.99 | D/ACO17 | \$4.07 |
| 18 | .1695 | 2-1/8" | 3-1/4" | DWDCO18 | \$2.72 | D/ACO18 | \$3.64 |
| 19 | .1660 | 2-1/8" | 3-1/4" | DWDCO19 | \$2.64 | D/ACO19 | \$3.64 |
| 20 | .1610 | 2-1/8" | 3-1/4" | DWDCO20 | \$2.64 | D/ACO20 | \$3.64 |
| 21 | .1590 | 2-1/8" | 3-1/4" | DWDCO21 | \$2.63 | D/ACO21 | \$3.64 |
| 22 | .1570 | 2" | 3-1/8" | DWDCO22 | \$2.63 | D/ACO22 | \$3.64 |
| 23 | .1540 | 2" | 3-1/8" | DWDCO23 | \$2.63 | D/ACO23 | \$3.64 |
| 24 | .1520 | 2" | 3-1/8" | DWDCO24 | \$2.63 | D/ACO24 | \$3.64 |
| 25 | .1495 | 1-7/8" | 3" | DWDCO25 | \$2.41 | D/ACO25 | \$3.29 |
| 26 | .1470 | 1-7/8" | 3" | DWDCO26 | \$2.39 | D/ACO26 | \$3.26 |
| 27 | .1440 | 1-7/8" | 3" | DWDCO27 | \$2.39 | D/ACO27 | \$3.26 |
| 28 | .1405 | 1-3/4" | 2-7/8" | DWDCO28 | \$2.24 | D/ACO28 | \$3.04 |
| 29 | .1360 | 1-3/4" | 2-7/8" | DWDCO29 | \$2.16 | D/ACO29 | \$2.96 |
| 30 | .1285 | 1-5/8" | 2-3/4" | DWDCO30 | \$2.02 | D/ACO30 | \$2.78 |
| 31 | .1200 | 1-5/8" | 2-3/4" | DWDCO31 | \$2.00 | D/ACO31 | \$2.75 |
| 32 | .1160 | 1-5/8" | 2-3/4" | DWDCO32 | \$1.97 | D/ACO32 | \$2.70 |
| 33 | .1130 | 1-1/2" | 2-5/8" | DWDCO33 | \$1.89 | D/ACO33 | \$2.62 |
| 34 | .1110 | 1-1/2" | 2-5/8" | DWDCO34 | \$1.89 | D/ACO34 | \$2.62 |
| 35 | .1100 | 1-1/2" | 2-5/8" | DWDCO35 | \$1.89 | D/ACO35 | \$2.62 |
| 36 | .1065 | 1-7/16" | 2-1/2" | DWDCO36 | \$1.86 | D/ACO36 | \$2.54 |
| 37 | .1040 | 1-7/16" | 2-1/2" | DWDCO37 | \$1.86 | D/ACO37 | \$2.54 |
| 38 | .1015 | 1-7/16" | 2-1/2" | DWDCO38 | \$1.73 | D/ACO38 | \$2.37 |
| 39 | .0995 | 1-3/8" | 2-3/8" | DWDCO39 | \$1.73 | D/ACO39 | \$2.37 |
| 40 | .0980 | 1-3/8" | 2-3/8" | DWDCO40 | \$1.73 | D/ACO40 | \$2.37 |
| 41 | .0960 | 1-3/8" | 2-3/8" | DWDCO41 | \$1.71 | D/ACO41 | \$2.32 |
| 42 | .0935 | 1-1/4" | 2-1/4" | DWDCO42 | \$1.69 | D/ACO42 | \$2.29 |
| 43 | .0890 | 1-1/4" | 2-1/4" | DWDCO43 | \$1.69 | D/ACO43 | \$2.29 |
| 44 | .0860 | 1-1/8" | 2-1/8" | DWDCO44 | \$1.69 | D/ACO44 | \$2.29 |
| 45 | .0820 | 1-1/8" | 2-1/8" | DWDCO45 | \$1.69 | D/ACO45 | \$2.29 |
| 46 | .0810 | 1-1/8" | 2-1/8" | DWDCO46 | \$1.69 | D/ACO46 | \$2.29 |
| 47 | .0785 | 1" | 2" | DWDCO47 | \$1.69 | D/ACO47 | \$2.29 |
| 48 | .0760 | 1" | 2" | DWDCO48 | \$1.69 | D/ACO48 | \$2.29 |
| 49 | .0730 | 1" | 2" | DWDCO49 | \$1.69 | D/ACO49 | \$2.29 |
| 50 | .0700 | 1" | 2" | DWDCO50 | \$1.69 | D/ACO50 | \$2.29 |
| 51 | .0670 | 1" | 2" | DWDCO51 | \$1.69 | D/ACO51 | \$2.29 |
| 52 | .0635 | 7/8" | 1-7/8" | DWDCO52 | \$1.69 | D/ACO52 | \$2.29 |
| *53 | .0595 | 7/8" | 1-7/8" | DWDCO53 | \$1.90 | D/ACO53 | \$2.50 |
| *54 | .0550 | 7/8" | 1-7/8" | DWDCO54 | \$1.90 | D/ACO54 | \$2.50 |
| *55 | .0520 | 7/8" | 1-7/8" | DWDCO55 | \$1.90 | D/ACO55 | \$2.50 |
| *56 | .0465 | 3/4" | 1-3/4" | DWDCO56 | \$2.14 | D/ACO56 | \$2.89 |
| *57 | .0430 | 3/4" | 1-3/4" | DWDCO57 | \$2.14 | D/ACO57 | \$2.89 |
| *58 | .0420 | 11/16" | 1-5/8" | DWDCO58 | \$2.14 | D/ACO58 | \$2.89 |
| *59 | .0410 | 11/16" | 1-5/8" | DWDCO59 | \$2.14 | D/ACO59 | \$2.89 |
| *60 | .0400 | 11/16" | 1-5/8" | DWDCO60 | \$2.14 | D/ACO60 | \$2.89 |



*118° Standard Point

COBALT JOBBERS LENGTH DRILLS

135° SPLIT POINT

W I R E G A U G E S I Z E S

| Size | Dec. Equiv. | Flute Length | O.A.L. | DWDCO Series | | D/ACO Series | |
|------|-------------|--------------|--------|--------------|------------|--------------|------------|
| | | | | Part Number | List Price | Part Number | List Price |
| *61 | .0390 | 11/16" | 1-5/8" | DWDCO61 | \$2.78 | D/ACO61 | \$4.39 |
| *62 | .0380 | 5/8" | 1-1/2" | DWDCO62 | \$2.78 | D/ACO62 | \$4.39 |
| *63 | .0370 | 5/8" | 1-1/2" | DWDCO63 | \$2.78 | D/ACO63 | \$4.39 |
| *64 | .0360 | 5/8" | 1-1/2" | DWDCO64 | \$2.78 | D/ACO64 | \$4.39 |
| *65 | .0350 | 5/8" | 1-1/2" | DWDCO65 | \$2.78 | D/ACO65 | \$4.39 |
| *66 | .0330 | 1/2" | 1-3/8" | DWDCO66 | \$2.94 | D/ACO66 | \$4.61 |
| *67 | .0320 | 1/2" | 1-3/8" | DWDCO67 | \$2.94 | D/ACO67 | \$4.61 |
| *68 | .0310 | 1/2" | 1-3/8" | DWDCO68 | \$2.94 | D/ACO68 | \$4.61 |
| *69 | .0292 | 1/2" | 1-3/8" | DWDCO69 | \$3.32 | D/ACO69 | \$5.23 |
| *70 | .0280 | 3/8" | 1-1/4" | DWDCO70 | \$3.32 | D/ACO70 | \$5.23 |
| *71 | .0260 | 3/8" | 1-1/4" | DWDCO71 | \$3.32 | D/ACO71 | \$5.23 |
| *72 | .0250 | 5/16" | 1-1/8" | DWDCO72 | \$3.32 | D/ACO72 | \$5.23 |
| *73 | .0240 | 5/16" | 1-1/8" | DWDCO73 | \$3.32 | D/ACO73 | \$5.23 |
| *74 | .0225 | 1/4" | 1" | DWDCO74 | \$3.32 | D/ACO74 | \$5.23 |
| *75 | .0210 | 1/4" | 1" | DWDCO75 | \$3.66 | D/ACO75 | \$5.78 |
| *76 | .0200 | 3/16" | 7/8" | DWDCO76 | \$3.66 | D/ACO76 | \$5.78 |
| *77 | .0180 | 3/16" | 7/8" | DWDCO77 | \$3.66 | D/ACO77 | \$5.78 |
| *78 | .0160 | 3/16" | 7/8" | DWDCO78 | \$3.66 | D/ACO78 | \$5.78 |
| *79 | .0145 | 1/8" | 3/4" | DWDCO79 | \$3.66 | D/ACO79 | \$5.78 |
| *80 | .0135 | 1/8" | 3/4" | DWDCO80 | \$3.66 | D/ACO80 | \$5.78 |

*118° Standard Point

L E T T E R S I Z E S

| Size | Dec. Equiv. | Flute Length | O.A.L. | DWDCO Series | | D/ACO Series | |
|------|-------------|--------------|--------|--------------|------------|--------------|------------|
| | | | | Part Number | List Price | Part Number | List Price |
| A | .2340 | 2-5/8" | 3-7/8" | DWDCOA | \$4.92 | D/ACOA | \$6.80 |
| B | .2380 | 2-3/4" | 4" | DWDCOB | \$5.66 | D/ACOB | \$7.83 |
| C | .2420 | 2-3/4" | 4" | DWDCOC | \$5.66 | D/ACOC | \$7.83 |
| D | .2460 | 2-3/4" | 4" | DWDCOD | \$6.38 | D/ACOD | \$8.82 |
| E | .2500 | 2-3/4" | 4" | DWDCOE | \$4.97 | D/ACOE | \$6.86 |
| F | .2570 | 2-7/8" | 4-1/8" | DWDCOF | \$5.61 | D/ACOF | \$7.74 |
| G | .2610 | 2-7/8" | 4-1/8" | DWDCOG | \$5.66 | D/ACOG | \$7.83 |
| H | .2660 | 2-7/8" | 4-1/8" | DWDCOH | \$6.38 | D/ACOH | \$8.82 |
| I | .2720 | 2-7/8" | 4-1/8" | DWDCOI | \$5.98 | D/ACOI | \$8.23 |
| J | .2770 | 2-7/8" | 4-1/8" | DWDCOJ | \$6.38 | D/ACOJ | \$8.82 |
| K | .2810 | 2-15/16" | 4-1/4" | DWDCOK | \$6.38 | D/ACOK | \$8.82 |
| L | .2900 | 2-15/16" | 4-1/4" | DWDCOL | \$7.24 | D/ACOL | \$10.01 |
| M | .2950 | 3-1/16" | 4-3/8" | DWDCOM | \$7.69 | D/ACOM | \$10.61 |
| N | .3020 | 3-1/16" | 4-3/8" | DWDCON | \$7.69 | D/ACON | \$10.61 |
| O | .3160 | 3-3/16" | 4-1/2" | DWDCOO | \$8.47 | D/ACOO | \$11.71 |
| P | .3230 | 3-5/16" | 4-5/8" | DWDCOP | \$9.02 | D/ACOP | \$12.43 |
| Q | .3320 | 3-7/16" | 4-3/4" | DWDCOQ | \$9.34 | D/ACOQ | \$12.89 |
| R | .3390 | 3-7/16" | 4-3/4" | DWDCOR | \$9.34 | D/ACOR | \$12.89 |
| S | .3480 | 3-1/2" | 4-7/8" | DWDCOS | \$11.45 | D/ACOS | \$15.81 |
| T | .3580 | 3-1/2" | 4-7/8" | DWDCOT | \$11.45 | D/ACOT | \$15.81 |
| U | .3680 | 3-5/8" | 5" | DWDCOU | \$11.45 | D/ACOU | \$15.81 |
| V | .3770 | 3-5/8" | 5" | DWDCOV | \$12.64 | D/ACOV | \$17.44 |
| W | .3860 | 3-3/4" | 5-1/8" | DWDCOW | \$13.00 | D/ACOW | \$17.44 |
| X | .3970 | 3-3/4" | 5-1/8" | DWDCOX | \$13.00 | D/ACOX | \$17.44 |
| Y | .4040 | 3-7/8" | 5-1/4" | DWDCOY | \$13.77 | D/ACOY | \$18.48 |
| Z | .4130 | 3-7/8" | 5-1/4" | DWDCOZ | \$14.99 | D/ACOZ | \$20.11 |



STEPPED POINT COBALT DRILL BITS

GSC Series - Gold Stepped Point Cobalt Drill Bits

Stepped Point Cobalt Drill Bits start easier, drill faster, increase lifespan and reduce heat compared to standard drill bits. They can be used to enlarge existing holes or to create new, smoother holes in a wide range of materials such as acrylics, steel, metal, brass and other hard metals. These drills have a 135 degree split point tip and a 3 -flat shank to prevent spinning. *Sizes 11/64" and smaller have a round shank. 29 Piece Set comes in a round plastic case.

| GSC Series | | | | |
|------------|-------------|--------|-----------|------------|
| Size | Dec. Equiv. | O.A.L. | SKU | List Price |
| *1/8" | 0.1250 | 2-3/4" | GSC1/8 | \$3.75 |
| *9/64" | 0.1406 | 2-7/8" | GSC9/64 | \$3.75 |
| *5/32" | 0.1562 | 3-1/8" | GSC5/32 | \$4.17 |
| *11/64" | 0.1719 | 3-1/4" | GSC11/64 | \$5.58 |
| 3/16" | 0.1875 | 3-1/2" | GSC3/16 | \$6.25 |
| 13/64" | 0.2031 | 3-5/8" | GSC13/64 | \$6.25 |
| 7/32" | 0.2188 | 3-3/4" | GSC7/32 | \$8.00 |
| 15/64" | 0.2344 | 3-7/8" | GSC15/64 | \$9.08 |
| 1/4" | 0.2500 | 4" | GSC1/4 | \$9.67 |
| 17/64" | 0.2656 | 4-1/8" | GSC17/64 | \$11.67 |
| 9/32" | 0.2812 | 4-1/4" | GSC9/32 | \$13.50 |
| 19/64" | 0.2969 | 4-3/8" | GSC19/64 | \$13.50 |
| 5/16" | 0.3125 | 4-1/2" | GSC5/16 | \$16.17 |
| 21/64" | 0.3281 | 4-5/8" | GSC21/64 | \$17.75 |
| 11/32" | 0.3438 | 4-3/4" | GSC11/32 | \$20.17 |
| 23/64" | 0.3594 | 4-7/8" | GSC23/64 | \$22.17 |
| 3/8" | 0.3750 | 5" | GSC3/8 | \$22.17 |
| 25/64" | 0.3906 | 5-1/8" | GSC25/64 | \$24.67 |
| 13/32" | 0.4062 | 5-1/4" | GSC13/32 | \$27.33 |
| 27/64" | 0.4219 | 5-3/8" | GSC27/64 | \$31.08 |
| 7/16" | 0.4375 | 5-1/2" | GSC7/16 | \$33.33 |
| 29/64" | 0.4531 | 5-5/8" | GSC29/64 | \$33.75 |
| 15/32" | 0.4688 | 5-3/4" | GSC15/32 | \$38.50 |
| 31/64" | 0.4844 | 5-7/8" | GSC31/64 | \$41.00 |
| 1/2" | 0.5000 | 6" | GSC1/2 | \$43.42 |
| *Set | -- | -- | GSC29J-PC | \$501.00 |



QUICK CHANGE HEX SHANK DRILL BITS

KFDHEX Series - HSS Quick Change Hex Shank Drill Bits

Manufactured from premium grade high speed steel, Killer Force Drills have a heavy duty 135° split point for self-centering and reducing thrust. Black and Gold surface treated for use in stainless steel and other hard metal drilling. 1/4" hex shank can be used in quick change impact drivers.



COHEX Series - Cobalt Quick Change Hex Shank Drill Bits

Manufactured to National Aerospace standard 907. Made of heat resistant cobalt, they display higher red hardness which permits speeds upto 30% greater than high speed steel drills and are especially effective in drilling tough, high tensile strength materials like PH stainless steel, inconel, and titanium. The 135° split point is self-centering and reduces thrust. Sizes smaller than 1/16" have the 118° standard point. 1/4" hex shank can be used in quick change impact drivers.



| | | | | KFDHEX Series | | COHEX Series | |
|-----------|-------------|--------------|--------|---------------|------------|--------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 3/64" | .0469 | 3/4" | 1-3/4" | KFDHEX3/64 | \$1.68 | COHEX3/64 | \$2.66 |
| 1/16" | .0625 | 7/8" | 1-7/8" | KFDHEX1/16 | \$1.68 | COHEX1/16 | \$2.53 |
| 5/64" | .0781 | 1" | 2" | KFDHEX5/64 | \$1.77 | COHEX5/64 | \$2.53 |
| 3/32" | .0938 | 1-1/4" | 2-1/4" | KFDHEX3/32 | \$1.77 | COHEX3/32 | \$2.53 |
| 7/64" | .1094 | 1-1/2" | 2-5/8" | KFDHEX7/64 | \$1.77 | COHEX7/64 | \$2.66 |
| 1/8" | .1250 | 1-5/8" | 2-3/4" | KFDHEX1/8 | \$1.77 | COHEX1/8 | \$3.30 |
| 9/64" | .1406 | 1-3/4" | 2-7/8" | KFDHEX9/64 | \$1.97 | COHEX9/64 | \$3.30 |
| 5/32" | .1562 | 2" | 3-1/8" | KFDHEX5/32 | \$2.34 | COHEX5/32 | \$3.67 |
| 11/64" | .1719 | 2-1/8" | 3-1/4" | KFDHEX11/64 | \$2.63 | COHEX11/64 | \$3.88 |
| 3/16" | .1875 | 2-5/16" | 3-1/2" | KFDHEX3/16 | \$2.79 | COHEX3/16 | \$4.43 |
| 13/64" | .2031 | 2-7/16" | 3-5/8" | KFDHEX13/64 | \$3.33 | COHEX13/64 | \$5.22 |
| 7/32" | .2188 | 2-1/2" | 3-3/4" | KFDHEX7/32 | \$3.53 | COHEX7/32 | \$5.70 |
| 15/64" | .2344 | 2-5/8" | 3-7/8" | KFDHEX15/64 | \$3.92 | COHEX15/64 | \$6.08 |
| 1/4" | .2500 | 2-3/4" | 4" | KFDHEX1/4 | \$5.09 | COHEX1/4 | \$6.48 |
| 17/64" | .2656 | 2-7/8" | 4-1/8" | KFDHEX17/64 | \$5.69 | COHEX17/64 | \$7.62 |
| 9/32" | .2812 | 2-15/16" | 4-1/4" | KFDHEX9/32 | \$5.93 | COHEX9/32 | \$7.99 |
| 19/64" | .2969 | 3-1/16" | 4-3/8" | KFDHEX19/64 | \$6.60 | COHEX19/64 | \$9.73 |
| 5/16" | .3125 | 3-3/16" | 4-1/2" | KFDHEX5/16 | \$6.75 | COHEX5/16 | \$10.38 |
| 21/64" | .3281 | 3-5/16" | 4-5/8" | KFDHEX21/64 | \$7.86 | COHEX21/64 | \$11.58 |
| 11/32" | .3438 | 3-7/16" | 4-3/4" | KFDHEX11/32 | \$9.11 | COHEX11/32 | \$12.67 |
| 23/64" | .3594 | 3-1/2" | 4-7/8" | KFDHEX23/64 | \$9.83 | COHEX23/64 | \$14.60 |
| 3/8" | .3750 | 3-5/8" | 5" | KFDHEX3/8 | \$9.83 | COHEX3/8 | \$14.60 |
| 25/64" | .3906 | 3-3/4" | 5-1/8" | KFDHEX25/64 | \$11.57 | COHEX25/64 | \$16.76 |
| 13/32" | .4062 | 3-7/8" | 5-1/4" | KFDHEX13/32 | \$12.11 | COHEX13/32 | \$17.48 |
| 27/64" | .4219 | 3-15/16" | 5-3/8" | KFDHEX27/64 | \$13.43 | COHEX27/64 | \$19.31 |
| 7/16" | .4375 | 4-1/16" | 5-1/2" | KFDHEX7/16 | \$14.43 | COHEX7/16 | \$20.54 |
| 29/64" | .4531 | 4-3/16" | 5-5/8" | KFDHEX29/64 | \$16.52 | COHEX29/64 | \$25.13 |
| 15/32" | .4688 | 4-5/16" | 5-3/4" | KFDHEX15/32 | \$17.92 | COHEX15/32 | \$25.61 |
| 31/64" | .4844 | 4-3/8" | 5-7/8" | KFDHEX31/64 | \$18.67 | COHEX31/64 | \$26.38 |
| 1/2" | .5000 | 4-1/2" | 6" | KFDHEX1/2 | \$18.13 | COHEX1/2 | \$26.38 |
| 13 PC SET | - | - | - | KFDHEX13-PC | \$37.77 | COHEX13-SET | \$55.16 |
| 15 PC SET | - | - | - | KFDHEX15-PC | \$128.40 | COHEX15-SET | \$154.16 |
| 29 PC SET | - | - | - | KFDHEX29-PC | \$235.40 | COHEX29-SET | \$307.87 |

KFD BLACK & GOLD DRILL BITS IN HANGING SLEEVE

SLK Series- Point of Purchase KFD Premium Quality Drill Bits

Manufactured from premium grade high speed steel, Killer Force Drills have a heavy duty 135° split point for self-centering and reducing thrust. Black and Gold surface treated for use in stainless steel and other hard metal drilling. Drills come in hanging sleeves in small quantities for point of purchase sale.

| | | | | | SLK Series | |
|--------|-------------|--------------|--------|----------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Pack Qty | Part Number | List Price |
| 1/16" | .0625 | 7/8" | 1-7/8" | 3 | SLK1/16P3 | \$4.17 |
| 5/64" | .0781 | 1" | 2" | 3 | SLK5/64P3 | \$4.37 |
| 3/32" | .0938 | 1-1/4" | 2-1/4" | 3 | SLK3/32P3 | \$4.37 |
| 7/64" | .1094 | 1-1/2" | 2-5/8" | 3 | SLK7/64P3 | \$4.37 |
| 1/8" | .1250 | 1-5/8" | 2-3/4" | 3 | SLK1/8P3 | \$4.37 |
| 9/64" | .1406 | 1-3/4" | 2-7/8" | 2 | SLK9/64P2 | \$3.26 |
| 5/32" | .1562 | 2" | 3-1/8" | 2 | SLK5/32P2 | \$3.87 |
| 11/64" | .1719 | 2-1/8" | 3-1/4" | 2 | SLK11/64P2 | \$4.35 |
| 3/16" | .1875 | 2-5/16" | 3-1/2" | 2 | SLK3/16P2 | \$4.60 |
| 13/64" | .2031 | 2-7/16" | 3-5/8" | 2 | SLK13/64P2 | \$5.48 |
| 7/32" | .2188 | 2-1/2" | 3-3/4" | 2 | SLK7/32P2 | \$5.80 |
| 15/64" | .2344 | 2-5/8" | 3-7/8" | 2 | SLK15/64P2 | \$6.44 |
| 1/4" | .2500 | 2-3/4" | 4" | 2 | SLK1/4P2 | \$6.44 |
| 17/64" | .2656 | 2-7/8" | 4-1/8" | 1 | SLK17/64P1 | \$4.71 |
| 9/32" | .2812 | 2-15/16" | 4-1/4" | 1 | SLK9/32P1 | \$4.89 |
| 19/64" | .2969 | 3-1/16" | 4-3/8" | 1 | SLK19/64P1 | \$5.47 |
| 5/16" | .3125 | 3-3/16" | 4-1/2" | 1 | SLK5/16P1 | \$5.60 |
| 21/64" | .3281 | 3-5/16" | 4-5/8" | 1 | SLK21/64P1 | \$6.48 |
| 11/32" | .3438 | 3-7/16" | 4-3/4" | 1 | SLK11/32P1 | \$7.50 |
| 23/64" | .3594 | 3-1/2" | 4-7/8" | 1 | SLK23/64P1 | \$8.08 |
| 3/8" | .3750 | 3-5/8" | 5" | 1 | SLK3/8P1 | \$8.08 |
| 25/64" | .3906 | 3-3/4" | 5-1/8" | 1 | SLK25/64P1 | \$9.50 |
| 13/32" | .4062 | 3-7/8" | 5-1/4" | 1 | SLK13/32P1 | \$9.94 |
| 27/64" | .4219 | 3-15/16" | 5-3/8" | 1 | SLK27/64P1 | \$11.01 |
| 7/16" | .4375 | 4-1/16" | 5-1/2" | 1 | SLK7/16P1 | \$11.82 |
| 29/64" | .4531 | 4-3/16" | 5-5/8" | 1 | SLK29/64P1 | \$13.52 |
| 15/32" | .4688 | 4-5/16" | 5-3/4" | 1 | SLK15/32P1 | \$14.66 |
| 31/64" | .4844 | 4-3/8" | 5-7/8" | 1 | SLK31/64P1 | \$15.26 |
| 1/2" | .5000 | 4-1/2" | 6" | 1 | SLK1/2P1 | \$14.82 |



HSS METRIC JOBBERS DRILLS 118° POINT

DWDMM Series - Metric

A dependable, general purpose drill designed to perform in a broad range of materials in the iron and steel families. Ideal for production, maintenance or portable drilling jobs. Surface treated with abrasion-resistant black oxide.



M E T R I C S I Z E S

| DWDMM Series | | | | | | DWDMM Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| .30 | .0118 | 3 | 19 | DWDMM.30 | \$2.05 | 3.10 | .1220 | 41 | 65 | DWDMM3.10 | \$1.20 |
| .35 | .0138 | 3 | 19 | DWDMM.35 | \$1.82 | 3.15 | .1240 | 41 | 65 | DWDMM3.15 | \$1.20 |
| .40 | .0157 | 5 | 20 | DWDMM.40 | \$1.62 | 3.20 | .1260 | 41 | 65 | DWDMM3.20 | \$1.30 |
| .45 | .0177 | 5 | 20 | DWDMM.45 | \$1.62 | 3.25 | .1280 | 41 | 65 | DWDMM3.25 | \$1.30 |
| .50 | .0197 | 5 | 22 | DWDMM.50 | \$1.57 | 3.30 | .1299 | 44 | 65 | DWDMM3.30 | \$1.30 |
| .55 | .0217 | 6 | 24 | DWDMM.55 | \$1.57 | 3.35 | .1319 | 44 | 70 | DWDMM3.35 | \$1.30 |
| .60 | .0236 | 8 | 24 | DWDMM.60 | \$1.57 | 3.40 | .1339 | 44 | 70 | DWDMM3.40 | \$1.39 |
| .65 | .0256 | 10 | 26 | DWDMM.65 | \$1.57 | 3.45 | .1358 | 44 | 70 | DWDMM3.45 | \$1.39 |
| .70 | .0276 | 10 | 28 | DWDMM.70 | \$1.41 | 3.50 | .1378 | 44 | 70 | DWDMM3.50 | \$1.39 |
| .75 | .0295 | 13 | 28 | DWDMM.75 | \$1.29 | 3.55 | .1397 | 48 | 70 | DWDMM3.55 | \$1.41 |
| .80 | .0315 | 13 | 30 | DWDMM.80 | \$1.17 | 3.60 | .1417 | 48 | 70 | DWDMM3.60 | \$1.41 |
| .85 | .0335 | 16 | 30 | DWDMM.85 | \$1.17 | 3.65 | .1437 | 48 | 70 | DWDMM3.65 | \$1.41 |
| .90 | .0354 | 16 | 32 | DWDMM.90 | \$1.17 | 3.70 | .1457 | 48 | 70 | DWDMM3.70 | \$1.41 |
| .95 | .0374 | 16 | 32 | DWDMM.95 | \$1.17 | 3.75 | .1476 | 48 | 75 | DWDMM3.75 | \$1.41 |
| 1.00 | .0394 | 17 | 34 | DWDMM1.00 | \$1.14 | 3.80 | .1496 | 48 | 75 | DWDMM3.80 | \$1.41 |
| 1.05 | .0413 | 17 | 34 | DWDMM1.05 | \$1.14 | 3.85 | .1516 | 51 | 75 | DWDMM3.85 | \$1.41 |
| 1.10 | .0433 | 19 | 36 | DWDMM1.10 | \$1.14 | 3.90 | .1535 | 51 | 75 | DWDMM3.90 | \$1.41 |
| 1.15 | .0453 | 19 | 36 | DWDMM1.15 | \$1.14 | 3.95 | .1555 | 51 | 75 | DWDMM3.95 | \$1.51 |
| 1.20 | .0472 | 22 | 38 | DWDMM1.20 | \$1.11 | 4.00 | .1575 | 54 | 75 | DWDMM4.00 | \$1.51 |
| 1.25 | .0492 | 22 | 38 | DWDMM1.25 | \$1.11 | 4.05 | .1594 | 54 | 75 | DWDMM4.05 | \$1.51 |
| 1.30 | .0512 | 22 | 38 | DWDMM1.30 | \$1.11 | 4.10 | .1614 | 54 | 75 | DWDMM4.10 | \$1.51 |
| 1.35 | .0531 | 22 | 40 | DWDMM1.35 | \$1.11 | 4.20 | .1654 | 54 | 75 | DWDMM4.20 | \$1.51 |
| 1.40 | .0551 | 22 | 40 | DWDMM1.40 | \$1.11 | 4.25 | .1673 | 54 | 80 | DWDMM4.25 | \$1.51 |
| 1.45 | .0571 | 22 | 40 | DWDMM1.45 | \$1.11 | 4.30 | .1693 | 54 | 80 | DWDMM4.30 | \$1.51 |
| 1.50 | .0591 | 22 | 40 | DWDMM1.50 | \$1.11 | 4.35 | .1713 | 54 | 80 | DWDMM4.35 | \$1.51 |
| 1.55 | .0610 | 22 | 43 | DWDMM1.55 | \$1.11 | 4.40 | .1732 | 56 | 80 | DWDMM4.40 | \$1.57 |
| 1.60 | .0630 | 22 | 43 | DWDMM1.60 | \$1.11 | 4.50 | .1772 | 56 | 80 | DWDMM4.50 | \$1.57 |
| 1.65 | .0650 | 25 | 43 | DWDMM1.65 | \$1.11 | 4.60 | .1811 | 56 | 80 | DWDMM4.60 | \$1.57 |
| 1.70 | .0669 | 25 | 43 | DWDMM1.70 | \$1.11 | 4.65 | .1831 | 56 | 80 | DWDMM4.65 | \$1.57 |
| 1.75 | .0689 | 25 | 46 | DWDMM1.75 | \$1.11 | 4.70 | .1850 | 59 | 80 | DWDMM4.70 | \$1.57 |
| 1.80 | .0709 | 25 | 46 | DWDMM1.80 | \$1.11 | 4.75 | .1870 | 59 | 86 | DWDMM4.75 | \$1.82 |
| 1.85 | .0728 | 25 | 46 | DWDMM1.85 | \$1.11 | 4.80 | .1890 | 59 | 86 | DWDMM4.80 | \$1.82 |
| 1.90 | .0748 | 25 | 46 | DWDMM1.90 | \$1.11 | 4.85 | .1909 | 62 | 86 | DWDMM4.85 | \$1.82 |
| 1.95 | .0768 | 25 | 49 | DWDMM1.95 | \$1.11 | 4.90 | .1929 | 62 | 86 | DWDMM4.90 | \$1.82 |
| 2.00 | .0787 | 25 | 49 | DWDMM2.00 | \$1.11 | 5.00 | .1969 | 62 | 86 | DWDMM5.00 | \$1.82 |
| 2.05 | .0807 | 29 | 49 | DWDMM2.05 | \$1.11 | 5.10 | .2008 | 62 | 86 | DWDMM5.10 | \$1.82 |
| 2.10 | .0827 | 29 | 49 | DWDMM2.10 | \$1.11 | 5.20 | .2047 | 64 | 86 | DWDMM5.20 | \$1.93 |
| 2.15 | .0846 | 29 | 53 | DWDMM2.15 | \$1.11 | 5.25 | .2067 | 64 | 86 | DWDMM5.25 | \$1.93 |
| 2.20 | .0866 | 32 | 53 | DWDMM2.20 | \$1.11 | 5.30 | .2087 | 64 | 86 | DWDMM5.30 | \$1.93 |
| 2.25 | .0886 | 32 | 53 | DWDMM2.25 | \$1.11 | 5.40 | .2126 | 64 | 93 | DWDMM5.40 | \$2.13 |
| 2.30 | .0906 | 32 | 53 | DWDMM2.30 | \$1.11 | 5.50 | .2165 | 64 | 93 | DWDMM5.50 | \$2.13 |
| 2.35 | .0925 | 32 | 53 | DWDMM2.35 | \$1.11 | 5.60 | .2205 | 67 | 93 | DWDMM5.60 | \$2.30 |
| 2.40 | .0945 | 35 | 57 | DWDMM2.40 | \$1.11 | 5.70 | .2244 | 67 | 93 | DWDMM5.70 | \$2.30 |
| 2.45 | .0965 | 35 | 57 | DWDMM2.45 | \$1.11 | 5.75 | .2264 | 67 | 93 | DWDMM5.75 | \$2.30 |
| 2.50 | .0984 | 35 | 57 | DWDMM2.50 | \$1.11 | 5.80 | .2283 | 67 | 93 | DWDMM5.80 | \$2.30 |
| 2.55 | .1003 | 35 | 57 | DWDMM2.55 | \$1.11 | 5.90 | .2323 | 67 | 93 | DWDMM5.90 | \$2.30 |
| 2.60 | .1024 | 37 | 57 | DWDMM2.60 | \$1.11 | 6.00 | .2362 | 70 | 93 | DWDMM6.00 | \$2.30 |
| 2.65 | .1043 | 37 | 57 | DWDMM2.65 | \$1.11 | 6.10 | .2402 | 70 | 101 | DWDMM6.10 | \$2.43 |
| 2.70 | .1063 | 37 | 61 | DWDMM2.70 | \$1.20 | 6.20 | .2441 | 70 | 101 | DWDMM6.20 | \$2.43 |
| 2.75 | .1083 | 37 | 61 | DWDMM2.75 | \$1.20 | 6.25 | .2461 | 70 | 101 | DWDMM6.25 | \$2.43 |
| 2.80 | .1102 | 38 | 61 | DWDMM2.80 | \$1.20 | 6.30 | .2480 | 70 | 101 | DWDMM6.30 | \$2.43 |
| 2.85 | .1122 | 38 | 61 | DWDMM2.85 | \$1.20 | 6.40 | .2520 | 73 | 101 | DWDMM6.40 | \$2.57 |
| 2.90 | .1142 | 41 | 61 | DWDMM2.90 | \$1.20 | 6.50 | .2559 | 73 | 101 | DWDMM6.50 | \$2.57 |
| 2.95 | .1161 | 41 | 61 | DWDMM2.95 | \$1.20 | 6.60 | .2598 | 73 | 101 | DWDMM6.60 | \$2.57 |
| 3.00 | .1181 | 41 | 61 | DWDMM3.00 | \$1.20 | 6.70 | .2638 | 73 | 101 | DWDMM6.70 | \$2.57 |
| 3.05 | .1201 | 41 | 65 | DWDMM3.05 | \$1.20 | 6.75 | .2657 | 73 | 109 | DWDMM6.75 | \$2.99 |

HSS METRIC JOBBER DRILLS 118° POINT

| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
|------|-------------|--------------|--------|-------------|------------|-------|-------------|--------------|--------|-------------|------------|
| 6.80 | .2677 | 73 | 109 | DWDMM6.80 | \$2.99 | 9.60 | .3780 | 95 | 133 | DWDMM9.60 | \$6.11 |
| 6.90 | .2717 | 73 | 109 | DWDMM6.90 | \$2.99 | 9.70 | .3819 | 95 | 133 | DWDMM9.70 | \$6.11 |
| 7.00 | .2756 | 73 | 109 | DWDMM7.00 | \$2.99 | 9.75 | .3839 | 95 | 133 | DWDMM9.75 | \$6.11 |
| 7.10 | .2795 | 75 | 109 | DWDMM7.10 | \$2.99 | 9.80 | .3858 | 95 | 133 | DWDMM9.80 | \$6.11 |
| 7.20 | .2835 | 75 | 109 | DWDMM7.20 | \$2.99 | 9.90 | .3898 | 95 | 133 | DWDMM9.90 | \$6.11 |
| 7.25 | .2854 | 75 | 109 | DWDMM7.25 | \$2.99 | 10.00 | .3937 | 95 | 133 | DWDMM10.00 | \$6.11 |
| 7.30 | .2874 | 75 | 109 | DWDMM7.30 | \$2.99 | 10.20 | .4016 | 98 | 133 | DWDMM10.20 | \$6.11 |
| 7.40 | .2913 | 78 | 109 | DWDMM7.40 | \$2.99 | 10.25 | .4035 | 98 | 133 | DWDMM10.25 | \$7.05 |
| 7.50 | .2953 | 78 | 109 | DWDMM7.50 | \$2.99 | 10.50 | .4134 | 98 | 133 | DWDMM10.50 | \$7.05 |
| 7.60 | .2992 | 78 | 117 | DWDMM7.60 | \$3.68 | 10.70 | .4213 | 100 | 142 | DWDMM10.70 | \$8.42 |
| 7.70 | .3031 | 81 | 117 | DWDMM7.70 | \$3.68 | 10.75 | .4232 | 101 | 142 | DWDMM10.75 | \$8.42 |
| 7.75 | .3051 | 81 | 117 | DWDMM7.75 | \$3.68 | 10.80 | .4252 | 103 | 142 | DWDMM10.80 | \$8.42 |
| 7.80 | .3071 | 81 | 117 | DWDMM7.80 | \$3.68 | 11.00 | .4331 | 103 | 142 | DWDMM11.00 | \$7.50 |
| 7.90 | .3110 | 81 | 117 | DWDMM7.90 | \$3.68 | 11.50 | .4528 | 106 | 142 | DWDMM11.50 | \$8.38 |
| 8.00 | .3150 | 81 | 117 | DWDMM8.00 | \$3.90 | 11.70 | .4606 | 110 | 142 | DWDMM11.70 | \$10.38 |
| 8.10 | .3189 | 84 | 117 | DWDMM8.10 | \$3.90 | 12.00 | .4724 | 111 | 151 | DWDMM12.00 | \$9.36 |
| 8.20 | .3228 | 84 | 117 | DWDMM8.20 | \$3.90 | 12.50 | .4921 | 114 | 151 | DWDMM12.50 | \$9.69 |
| 8.25 | .3248 | 84 | 117 | DWDMM8.25 | \$3.90 | 12.80 | .5039 | 114 | 151 | DWDMM12.80 | \$11.09 |
| 8.30 | .3268 | 84 | 117 | DWDMM8.30 | \$3.90 | 13.00 | .5118 | 114 | 151 | DWDMM13.00 | \$11.09 |
| 8.40 | .3307 | 87 | 117 | DWDMM8.40 | \$3.90 | 13.50 | .5315 | 122 | 160 | DWDMM13.50 | \$13.92 |
| 8.50 | .3346 | 87 | 117 | DWDMM8.50 | \$3.90 | 14.00 | .5512 | 122 | 160 | DWDMM14.00 | \$15.92 |
| 8.60 | .3386 | 87 | 125 | DWDMM8.60 | \$4.48 | 14.50 | .5709 | 122 | 169 | DWDMM14.50 | \$15.92 |
| 8.70 | .3425 | 87 | 125 | DWDMM8.70 | \$4.48 | 15.00 | .5906 | 132 | 169 | DWDMM15.00 | \$17.27 |
| 8.75 | .3445 | 87 | 125 | DWDMM8.75 | \$4.74 | 15.50 | .6102 | 132 | 178 | DWDMM15.50 | \$19.74 |
| 8.80 | .3465 | 89 | 125 | DWDMM8.80 | \$4.74 | 16.00 | .6299 | 132 | 178 | DWDMM16.00 | \$19.74 |
| 8.90 | .3504 | 89 | 125 | DWDMM8.90 | \$4.74 | 16.50 | .6496 | 132 | 184 | DWDMM16.50 | \$21.32 |
| 9.00 | .3543 | 89 | 125 | DWDMM9.00 | \$4.74 | 17.00 | .6693 | 143 | 184 | DWDMM17.00 | \$21.32 |
| 9.10 | .3583 | 89 | 125 | DWDMM9.10 | \$4.74 | 17.50 | .6890 | 143 | 191 | DWDMM17.50 | \$23.45 |
| 9.20 | .3622 | 92 | 125 | DWDMM9.20 | \$5.41 | 18.00 | .7087 | 145 | 191 | DWDMM18.00 | \$24.66 |
| 9.25 | .3642 | 92 | 125 | DWDMM9.25 | \$5.41 | 18.50 | .7283 | 149 | 198 | DWDMM18.50 | \$26.73 |
| 9.30 | .3661 | 92 | 125 | DWDMM9.30 | \$5.41 | 19.00 | .7480 | 149 | 198 | DWDMM19.00 | \$29.57 |
| 9.40 | .3701 | 92 | 125 | DWDMM9.40 | \$5.41 | 19.50 | .7677 | 154 | 205 | DWDMM19.50 | \$29.57 |
| 9.50 | .3740 | 92 | 125 | DWDMM9.50 | \$5.41 | 20.00 | .7874 | 154 | 205 | DWDMM20.00 | \$29.57 |

COBALT METRIC JOBBERS DRILLS 135° SPLIT POINT

D/AMMCO Series - Metric Cobalt

Manufactured to National Aerospace standard 907. Made of heat resistant cobalt, they display higher red hardness which permits speeds upto 30% greater than high speed steel drills and are especially effective in drilling tough, high tensile strength materials like PH stainless steel, inconel, and titanium. The 135° split point is self-centering and reduces thrust. Sizes smaller than 2mm have the 118° standard point.



M E T R I C S I Z E S

| D/AMMCO Series | | | | | | D/AMMCO Series | | | | | |
|----------------|-------------|--------------|--------|-------------|------------|----------------|-------------|--------------|--------|--------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| *1.00 | .0394 | 17 | 41 | D/AMMCO1.00 | \$3.42 | 7.50 | .2953 | 78 | 111 | D/AMMCO7.50 | \$12.17 |
| *1.50 | .0591 | 22 | 48 | D/AMMCO1.50 | \$3.32 | 8.00 | .3150 | 81 | 114 | D/AMMCO8.00 | \$14.37 |
| 2.00 | .0787 | 25 | 51 | D/AMMCO2.00 | \$3.32 | 8.50 | .3346 | 87 | 121 | D/AMMCO8.50 | \$15.72 |
| 2.50 | .0984 | 35 | 60 | D/AMMCO2.50 | \$3.39 | 9.00 | .3543 | 89 | 124 | D/AMMCO9.00 | \$18.08 |
| 3.00 | .1181 | 41 | 70 | D/AMMCO3.00 | \$4.07 | 9.50 | .3740 | 92 | 127 | D/AMMCO9.50 | \$18.08 |
| 3.50 | .1378 | 48 | 73 | D/AMMCO3.50 | \$4.14 | 10.00 | .3937 | 95 | 130 | D/AMMCO10.00 | \$21.45 |
| 4.00 | .1575 | 54 | 83 | D/AMMCO4.00 | \$4.90 | 10.50 | .4134 | 98 | 133 | D/AMMCO10.50 | \$23.73 |
| 4.50 | .1772 | 56 | 86 | D/AMMCO4.50 | \$5.49 | 11.00 | .4331 | 103 | 140 | D/AMMCO11.00 | \$24.30 |
| 5.00 | .1969 | 62 | 92 | D/AMMCO5.00 | \$6.61 | 11.50 | .4528 | 106 | 143 | D/AMMCO11.50 | \$29.10 |
| 5.50 | .2165 | 64 | 95 | D/AMMCO5.50 | \$7.42 | 12.00 | .4724 | 111 | 149 | D/AMMCO12.00 | \$30.56 |
| 6.00 | .2362 | 70 | 102 | D/AMMCO6.00 | \$8.44 | 12.50 | .4921 | 114 | 152 | D/AMMCO12.50 | \$31.15 |
| 6.50 | .2559 | 73 | 105 | D/AMMCO6.50 | \$9.56 | 13.00 | .5118 | 114 | 152 | D/AMMCO13.00 | \$40.75 |
| 7.00 | .2756 | 73 | 105 | D/AMMCO7.00 | \$10.05 | | | | | | |

*118° Standard Point

HSS TIN-COATED JOBBER DRILLS 118° POINT

DWDTN Series - TIN Coated

Superhard titanium nitride surface treatment improves drill life, chip ejection, and productivity; decreases horsepower requirements. Ideal for hard metals, work hardened stainless and other difficult to drill materials.



FRACTIONAL SIZES

| DWDTN Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| 1/16" | .0625 | 7/8" | 1-7/8" | DWDTN1/16 | \$3.26 |
| 5/64" | .0781 | 1" | 2" | DWDTN5/64 | \$3.26 |
| 3/32" | .0938 | 1-1/4" | 2-1/4" | DWDTN3/32 | \$3.26 |
| 7/64" | .1094 | 1-1/2" | 2-5/8" | DWDTN7/64 | \$3.32 |
| 1/8" | .1250 | 1-5/8" | 2-3/4" | DWDTN1/8 | \$3.32 |
| 9/64" | .1406 | 1-3/4" | 2-7/8" | DWDTN9/64 | \$3.77 |
| 5/32" | .1562 | 2" | 3-1/8" | DWDTN5/32 | \$3.88 |
| 11/64" | .1719 | 2-1/8" | 3-1/4" | DWDTN11/64 | \$4.08 |
| 3/16" | .1875 | 2-5/16" | 3-1/2" | DWDTN3/16 | \$4.32 |
| 13/64" | .2031 | 2-7/16" | 3-5/8" | DWDTN13/64 | \$5.87 |
| 7/32" | .2188 | 2-1/2" | 3-3/4" | DWDTN7/32 | \$6.14 |
| 15/64" | .2344 | 2-5/8" | 3-7/8" | DWDTN15/64 | \$6.33 |
| 1/4" | .2500 | 2-3/4" | 4" | DWDTN1/4 | \$6.54 |
| 17/64" | .2656 | 2-7/8" | 4-1/8" | DWDTN17/64 | \$10.04 |
| 9/32" | .2812 | 2-15/16" | 4-1/4" | DWDTN9/32 | \$10.36 |
| 19/64" | .2969 | 3-1/16" | 4-3/8" | DWDTN19/64 | \$10.76 |
| 5/16" | .3125 | 3-3/16" | 4-1/2" | DWDTN5/16 | \$10.94 |
| 21/64" | .3281 | 3-5/16" | 4-5/8" | DWDTN21/64 | \$13.93 |
| 11/32" | .3438 | 3-7/16" | 4-3/4" | DWDTN11/32 | \$14.64 |
| 23/64" | .3594 | 3-1/2" | 4-7/8" | DWDTN23/64 | \$14.61 |
| 3/8" | .3750 | 3-5/8" | 5" | DWDTN3/8 | \$15.73 |
| 25/64" | .3906 | 3-3/4" | 5-1/8" | DWDTN25/64 | \$17.52 |
| 13/32" | .4062 | 3-7/8" | 5-1/4" | DWDTN13/32 | \$18.23 |
| 27/64" | .4219 | 3-15/16" | 5-3/8" | DWDTN27/64 | \$19.05 |
| 7/16" | .4375 | 4-1/16" | 5-1/2" | DWDTN7/16 | \$19.63 |
| 29/64" | .4531 | 4-3/16" | 5-5/8" | DWDTN29/64 | \$21.75 |
| 15/32" | .4688 | 4-5/16" | 5-3/4" | DWDTN15/32 | \$22.71 |
| 31/64" | .4844 | 4-3/8" | 5-7/8" | DWDTN31/64 | \$23.33 |
| 1/2" | .5000 | 4-1/2" | 6" | DWDTN1/2 | \$23.96 |

WIRE GAUGE SIZES

| DWDTN Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| 1 | .2280 | 2-5/8" | 3-7/8" | DWDTN1 | \$8.13 |
| 2 | .2210 | 2-5/8" | 3-7/8" | DWDTN2 | \$8.13 |
| 3 | .2130 | 2-1/2" | 3-3/4" | DWDTN3 | \$7.66 |
| 4 | .2090 | 2-1/2" | 3-3/4" | DWDTN4 | \$7.66 |
| 5 | .2055 | 2-1/2" | 3-3/4" | DWDTN5 | \$7.66 |
| 6 | .2040 | 2-1/2" | 3-3/4" | DWDTN6 | \$7.66 |
| 7 | .2010 | 2-7/16" | 3-5/8" | DWDTN7 | \$7.22 |
| 8 | .1990 | 2-7/16" | 3-5/8" | DWDTN8 | \$7.22 |
| 9 | .1960 | 2-7/16" | 3-5/8" | DWDTN9 | \$7.22 |
| 10 | .1935 | 2-7/16" | 3-5/8" | DWDTN10 | \$7.22 |
| 11 | .1910 | 2-5/16" | 3-1/2" | DWDTN11 | \$7.02 |
| 12 | .1890 | 2-5/16" | 3-1/2" | DWDTN12 | \$7.02 |
| 13 | .1850 | 2-5/16" | 3-1/2" | DWDTN13 | \$6.92 |
| 14 | .1820 | 2-3/16" | 3-3/8" | DWDTN14 | \$6.92 |
| 15 | .1800 | 2-3/16" | 3-3/8" | DWDTN15 | \$6.92 |
| 16 | .1770 | 2-3/16" | 3-3/8" | DWDTN16 | \$6.92 |
| 17 | .1730 | 2-3/16" | 3-3/8" | DWDTN17 | \$6.92 |
| 18 | .1695 | 2-1/8" | 3-1/4" | DWDTN18 | \$6.37 |
| 19 | .1660 | 2-1/8" | 3-1/4" | DWDTN19 | \$6.37 |
| 20 | .1610 | 2-1/8" | 3-1/4" | DWDTN20 | \$6.37 |
| 21 | .1590 | 2-1/8" | 3-1/4" | DWDTN21 | \$6.19 |
| 22 | .1570 | 2" | 3-1/8" | DWDTN22 | \$6.19 |
| 23 | .1540 | 2" | 3-1/8" | DWDTN23 | \$6.16 |
| 24 | .1520 | 2" | 3-1/8" | DWDTN24 | \$6.16 |
| 25 | .1495 | 1-7/8" | 3" | DWDTN25 | \$6.04 |
| 26 | .1470 | 1-7/8" | 3" | DWDTN26 | \$6.04 |
| 27 | .1440 | 1-7/8" | 3" | DWDTN27 | \$6.04 |
| 28 | .1405 | 1-3/4" | 2-7/8" | DWDTN28 | \$5.88 |
| 29 | .1360 | 1-3/4" | 2-7/8" | DWDTN29 | \$5.88 |
| 30 | .1285 | 1-5/8" | 2-3/4" | DWDTN30 | \$5.88 |
| 31 | .1200 | 1-5/8" | 2-3/4" | DWDTN31 | \$3.93 |
| 32 | .1160 | 1-5/8" | 2-3/4" | DWDTN32 | \$3.93 |
| 33 | .1130 | 1-1/2" | 2-5/8" | DWDTN33 | \$3.93 |
| 34 | .1110 | 1-1/2" | 2-5/8" | DWDTN34 | \$3.93 |
| 35 | .1100 | 1-1/2" | 2-5/8" | DWDTN35 | \$3.93 |
| 36 | .1065 | 1-7/16" | 2-1/2" | DWDTN36 | \$3.93 |
| 37 | .1040 | 1-7/16" | 2-1/2" | DWDTN37 | \$3.93 |
| 38 | .1015 | 1-7/16" | 2-1/2" | DWDTN38 | \$3.93 |
| 39 | .0995 | 1-3/8" | 2-3/8" | DWDTN39 | \$3.93 |
| 40 | .0980 | 1-3/8" | 2-3/8" | DWDTN40 | \$3.93 |

HSS LEFT HAND JOBBER DRILLS

118° POINT

DWDLH Series - Left Hand

General purpose drill construction. Features a left hand helix for applications where spindles rotate counterclockwise. Left hand drills can also be used to drill out broken bolts.



F R A C T I O N A L S I Z E S

| DWDLH Series | | | | | | DWDLH Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| 1/32" | .0312 | 1/2" | 1-3/8" | DWDLH1/32 | \$6.18 | 9/32" | .2812 | 2-15/16" | 4-1/4" | DWDLH9/32 | \$9.64 |
| 3/64" | .0469 | 3/4" | 1-3/4" | DWDLH3/64 | \$4.06 | 19/64" | .2969 | 3-1/16" | 4-3/8" | DWDLH19/64 | \$10.55 |
| 1/16" | .0625 | 7/8" | 1-7/8" | DWDLH1/16 | \$4.06 | 5/16" | .3125 | 3-3/16" | 4-1/2" | DWDLH5/16 | \$11.23 |
| 5/64" | .0781 | 1" | 2" | DWDLH5/64 | \$4.06 | 21/64" | .3281 | 3-5/16" | 4-5/8" | DWDLH21/64 | \$12.05 |
| 3/32" | .0938 | 1-1/4" | 2-1/4" | DWDLH3/32 | \$4.22 | 11/32" | .3438 | 3-7/16" | 4-3/4" | DWDLH11/32 | \$13.85 |
| 7/64" | .1094 | 1-1/2" | 2-5/8" | DWDLH7/64 | \$4.38 | 23/64" | .3594 | 3-1/2" | 4-7/8" | DWDLH23/64 | \$16.09 |
| 1/8" | .1250 | 1-5/8" | 2-3/4" | DWDLH1/8 | \$4.38 | 3/8" | .3750 | 3-5/8" | 5" | DWDLH3/8 | \$16.94 |
| 9/64" | .1406 | 1-3/4" | 2-7/8" | DWDLH9/64 | \$4.57 | 25/64" | .3906 | 3-3/4" | 5-1/8" | DWDLH25/64 | \$18.51 |
| 5/32" | .1562 | 2" | 3-1/8" | DWDLH5/32 | \$5.08 | 13/32" | .4062 | 3-7/8" | 5-1/4" | DWDLH13/32 | \$19.29 |
| 11/64" | .1719 | 2-1/8" | 3-1/4" | DWDLH11/64 | \$5.72 | 27/64" | .4219 | 3-15/16" | 5-3/8" | DWDLH27/64 | \$21.71 |
| 3/16" | .1875 | 2-5/16" | 3-1/2" | DWDLH3/16 | \$6.35 | 7/16" | .4375 | 4-1/16" | 5-1/2" | DWDLH7/16 | \$22.68 |
| 13/64" | .2031 | 2-7/16" | 3-5/8" | DWDLH13/64 | \$6.35 | 29/64" | .4531 | 4-3/16" | 5-5/8" | DWDLH29/64 | \$25.89 |
| 7/32" | .2188 | 2-1/2" | 3-3/4" | DWDLH7/32 | \$6.35 | 15/32" | .4688 | 4-5/16" | 5-3/4" | DWDLH15/32 | \$27.53 |
| 15/64" | .2344 | 2-5/8" | 3-7/8" | DWDLH15/64 | \$8.81 | 31/64" | .4844 | 4-3/8" | 5-7/8" | DWDLH31/64 | \$29.11 |
| 1/4" | .2500 | 2-3/4" | 4" | DWDLH1/4 | \$8.81 | 1/2" | .5000 | 4-1/2" | 6" | DWDLH1/2 | \$29.11 |
| 17/64" | .2656 | 2-7/8" | 4-1/8" | DWDLH17/64 | \$9.30 | | | | | | |

W I R E G A U G E S I Z E S

| DWDLH Series | | | | | | DWDLH Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| 1 | .2280 | 2-5/8" | 3-7/8" | DWDLH1 | \$8.08 | 31 | .1200 | 1-5/8" | 2-3/4" | DWDLH31 | \$3.91 |
| 2 | .2210 | 2-5/8" | 3-7/8" | DWDLH2 | \$8.08 | 32 | .1160 | 1-5/8" | 2-3/4" | DWDLH32 | \$3.91 |
| 3 | .2130 | 2-1/2" | 3-3/4" | DWDLH3 | \$7.60 | 33 | .1130 | 1-1/2" | 2-5/8" | DWDLH33 | \$3.91 |
| 4 | .2090 | 2-1/2" | 3-3/4" | DWDLH4 | \$7.60 | 34 | .1110 | 1-1/2" | 2-5/8" | DWDLH34 | \$3.91 |
| 5 | .2055 | 2-1/2" | 3-3/4" | DWDLH5 | \$7.60 | 35 | .1100 | 1-1/2" | 2-5/8" | DWDLH35 | \$3.91 |
| 6 | .2040 | 2-1/2" | 3-3/4" | DWDLH6 | \$7.60 | 36 | .1065 | 1-7/16" | 2-1/2" | DWDLH36 | \$3.91 |
| 7 | .2010 | 2-7/16" | 3-5/8" | DWDLH7 | \$6.39 | 37 | .1040 | 1-7/16" | 2-1/2" | DWDLH37 | \$3.91 |
| 8 | .1990 | 2-7/16" | 3-5/8" | DWDLH8 | \$6.39 | 38 | .1015 | 1-7/16" | 2-1/2" | DWDLH38 | \$3.91 |
| 9 | .1960 | 2-7/16" | 3-5/8" | DWDLH9 | \$6.39 | 39 | .0995 | 1-3/8" | 2-3/8" | DWDLH39 | \$3.91 |
| 10 | .1935 | 2-7/16" | 3-5/8" | DWDLH10 | \$6.39 | 40 | .0980 | 1-3/8" | 2-3/8" | DWDLH40 | \$3.91 |
| 11 | .1910 | 2-5/16" | 3-1/2" | DWDLH11 | \$6.16 | 41 | .0960 | 1-3/8" | 2-3/8" | DWDLH41 | \$3.91 |
| 12 | .1890 | 2-5/16" | 3-1/2" | DWDLH12 | \$6.16 | 42 | .0935 | 1-1/4" | 2-1/4" | DWDLH42 | \$3.91 |
| 13 | .1850 | 2-5/16" | 3-1/2" | DWDLH13 | \$5.69 | 43 | .0890 | 1-1/4" | 2-1/4" | DWDLH43 | \$3.91 |
| 14 | .1820 | 2-3/16" | 3-3/8" | DWDLH14 | \$5.69 | 44 | .0860 | 1-1/8" | 2-1/8" | DWDLH44 | \$3.91 |
| 15 | .1800 | 2-3/16" | 3-3/8" | DWDLH15 | \$5.69 | 45 | .0820 | 1-1/8" | 2-1/8" | DWDLH45 | \$3.91 |
| 16 | .1770 | 2-3/16" | 3-3/8" | DWDLH16 | \$5.69 | 46 | .0810 | 1-1/8" | 2-1/8" | DWDLH46 | \$3.91 |
| 17 | .1730 | 2-3/16" | 3-3/8" | DWDLH17 | \$5.69 | 47 | .0785 | 1" | 2" | DWDLH47 | \$3.91 |
| 18 | .1695 | 2-1/8" | 3-1/4" | DWDLH18 | \$5.00 | 48 | .0760 | 1" | 2" | DWDLH48 | \$3.91 |
| 19 | .1660 | 2-1/8" | 3-1/4" | DWDLH19 | \$5.00 | 49 | .0730 | 1" | 2" | DWDLH49 | \$3.91 |
| 20 | .1610 | 2-1/8" | 3-1/4" | DWDLH20 | \$5.00 | 50 | .0700 | 1" | 2" | DWDLH50 | \$3.91 |
| 21 | .1590 | 2-1/8" | 3-1/4" | DWDLH21 | \$4.76 | 51 | .0670 | 1" | 2" | DWDLH51 | \$3.95 |
| 22 | .1570 | 2" | 3-1/8" | DWDLH22 | \$4.76 | 52 | .0635 | 7/8" | 1-7/8" | DWDLH52 | \$3.95 |
| 23 | .1540 | 2" | 3-1/8" | DWDLH23 | \$4.55 | 53 | .0595 | 7/8" | 1-7/8" | DWDLH53 | \$3.95 |
| 24 | .1520 | 2" | 3-1/8" | DWDLH24 | \$4.55 | 54 | .0550 | 7/8" | 1-7/8" | DWDLH54 | \$3.95 |
| 25 | .1495 | 1-7/8" | 3" | DWDLH25 | \$4.39 | 55 | .0520 | 7/8" | 1-7/8" | DWDLH55 | \$3.95 |
| 26 | .1470 | 1-7/8" | 3" | DWDLH26 | \$4.39 | 56 | .0465 | 3/4" | 1-3/4" | DWDLH56 | \$3.95 |
| 27 | .1440 | 1-7/8" | 3" | DWDLH27 | \$4.39 | 57 | .0430 | 3/4" | 1-3/4" | DWDLH57 | \$3.95 |
| 28 | .1405 | 1-3/4" | 2-7/8" | DWDLH28 | \$3.91 | 58 | .0420 | 11/16" | 1-5/8" | DWDLH58 | \$3.95 |
| 29 | .1360 | 1-3/4" | 2-7/8" | DWDLH29 | \$3.91 | 59 | .0410 | 11/16" | 1-5/8" | DWDLH59 | \$3.95 |
| 30 | .1285 | 1-5/8" | 2-3/4" | DWDLH30 | \$3.91 | 60 | .0400 | 11/16" | 1-5/8" | DWDLH60 | \$3.95 |

HSS LEFT HAND JOBBER DRILLS 118° POINT



LETTER SIZES

| DWDLH Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| A | .2340 | 2-5/8" | 3-7/8" | DWDLHA | \$10.68 |
| B | .2380 | 2-3/4" | 4" | DWDLHB | \$9.89 |
| C | .2420 | 2-3/4" | 4" | DWDLHC | \$9.89 |
| D | .2460 | 2-3/4" | 4" | DWDLHD | \$9.89 |
| E | .2500 | 2-3/4" | 4" | DWDLHE | \$9.13 |
| F | .2570 | 2-7/8" | 4-1/8" | DWDLHF | \$9.81 |
| G | .2610 | 2-7/8" | 4-1/8" | DWDLHG | \$10.80 |
| H | .2660 | 2-7/8" | 4-1/8" | DWDLHH | \$10.80 |
| I | .2720 | 2-7/8" | 4-1/8" | DWDLHI | \$10.80 |
| J | .2770 | 2-7/8" | 4-1/8" | DWDLHJ | \$11.60 |
| K | .2810 | 2-15/16" | 4-1/4" | DWDLHK | \$12.09 |
| L | .2900 | 2-15/16" | 4-1/4" | DWDLHL | \$12.09 |
| M | .2950 | 3-1/16" | 4-3/8" | DWDLHM | \$12.17 |

| DWDLH Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| N | .3020 | 3-1/16" | 4-3/8" | DWDLHN | \$12.17 |
| O | .3160 | 3-3/16" | 4-1/2" | DWDLHO | \$12.17 |
| P | .3230 | 3-5/16" | 4-5/8" | DWDLHP | \$13.70 |
| Q | .3320 | 3-7/16" | 4-3/4" | DWDLHQ | \$13.99 |
| R | .3390 | 3-7/16" | 4-3/4" | DWDLHR | \$14.99 |
| S | .3480 | 3-1/2" | 4-7/8" | DWDLHS | \$16.51 |
| T | .3580 | 3-1/2" | 4-7/8" | DWDLHT | \$18.69 |
| U | .3680 | 3-5/8" | 5" | DWDLHU | \$18.93 |
| V | .3770 | 3-5/8" | 5" | DWDLHV | \$18.93 |
| W | .3860 | 3-3/4" | 5-1/8" | DWDLHW | \$19.51 |
| X | .3970 | 3-3/4" | 5-1/8" | DWDLHX | \$23.89 |
| Y | .4040 | 3-7/8" | 5-1/4" | DWDLHY | \$26.81 |
| Z | .4130 | 3-7/8" | 5-1/4" | DWDLHZ | \$29.06 |

HSS DRILL BLANK

DWDBL Series - Blanks

Bright finish, Hardened and ground, blanks are often used as gauges to check hole size and drill bushing size. Can often be used as guide pins for die sets or modified as punches.



FRACTIONAL SIZES

| DWDBL Series | | | | |
|--------------|-------------|--------|-------------|------------|
| Size | Dec. Equiv. | O.A.L. | Part Number | List Price |
| 1/64" | .0156 | 3/4" | DWDBL1/64 | \$2.80 |
| 1/32" | .0312 | 1-3/8" | DWDBL1/32 | \$2.80 |
| 3/64" | .0469 | 1-3/4" | DWDBL3/64 | \$3.03 |
| 1/16" | .0625 | 1-7/8" | DWDBL1/16 | \$3.03 |
| 5/64" | .0781 | 2" | DWDBL5/64 | \$3.12 |
| 3/32" | .0938 | 2-1/4" | DWDBL3/32 | \$3.12 |
| 7/64" | .1094 | 2-5/8" | DWDBL7/64 | \$3.12 |
| 1/8" | .1250 | 2-3/4" | DWDBL1/8 | \$3.12 |
| 9/64" | .1406 | 2-7/8" | DWDBL9/64 | \$3.12 |
| 5/32" | .1562 | 3-1/8" | DWDBL5/32 | \$3.54 |
| 11/64" | .1719 | 3-1/4" | DWDBL11/64 | \$3.54 |
| 3/16" | .1875 | 3-1/2" | DWDBL3/16 | \$3.97 |
| 13/64" | .2031 | 3-5/8" | DWDBL13/64 | \$5.02 |
| 7/32" | .2188 | 3-3/4" | DWDBL7/32 | \$5.20 |
| 15/64" | .2344 | 3-7/8" | DWDBL15/64 | \$5.69 |
| 1/4" | .2500 | 4" | DWDBL1/4 | \$6.16 |
| 17/64" | .2656 | 4-1/8" | DWDBL17/64 | \$7.28 |
| 9/32" | .2812 | 4-1/4" | DWDBL9/32 | \$7.85 |
| 19/64" | .2969 | 4-3/8" | DWDBL19/64 | \$8.72 |
| 5/16" | .3125 | 4-1/2" | DWDBL5/16 | \$8.97 |
| 21/64" | .3281 | 4-5/8" | DWDBL21/64 | \$9.87 |
| 11/32" | .3438 | 4-3/4" | DWDBL11/32 | \$10.59 |
| 23/64" | .3594 | 4-7/8" | DWDBL23/64 | \$11.92 |
| 3/8" | .3750 | 5" | DWDBL3/8 | \$13.09 |
| 25/64" | .3906 | 5-1/8" | DWDBL25/64 | \$13.61 |
| 13/32" | .4062 | 5-1/4" | DWDBL13/32 | \$14.74 |
| 27/64" | .4219 | 5-3/8" | DWDBL27/64 | \$16.52 |
| 7/16" | .4375 | 5-1/2" | DWDBL7/16 | \$18.67 |
| 29/64" | .4531 | 5-5/8" | DWDBL29/64 | \$19.16 |
| 15/32" | .4688 | 5-3/4" | DWDBL15/32 | \$19.47 |
| 31/64" | .4844 | 5-7/8" | DWDBL31/64 | \$22.10 |
| 1/2" | .5000 | 6" | DWDBL1/2 | \$23.40 |

| DWDBL Series | | | | |
|--------------|-------------|--------|-------------|------------|
| Size | Dec. Equiv. | O.A.L. | Part Number | List Price |
| 33/64" | .5156 | 6" | DWDBL33/64 | \$34.23 |
| 17/32" | .5312 | 6" | DWDBL17/32 | \$34.23 |
| 35/64" | .5469 | 6" | DWDBL35/64 | \$35.65 |
| 9/16" | .5625 | 6" | DWDBL9/16 | \$35.65 |
| 37/64" | .5781 | 6" | DWDBL37/64 | \$40.88 |
| 19/32" | .5938 | 6" | DWDBL19/32 | \$40.88 |
| 39/64" | .6094 | 6" | DWDBL39/64 | \$41.24 |
| 5/8" | .6250 | 6" | DWDBL5/8 | \$41.24 |
| 41/64" | .6406 | 6" | DWDBL41/64 | \$47.27 |
| 21/32" | .6562 | 6" | DWDBL21/32 | \$47.27 |
| 43/64" | .6719 | 6" | DWDBL43/64 | \$51.80 |
| 11/16" | .6875 | 6" | DWDBL11/16 | \$51.80 |
| 45/64" | .7031 | 6" | DWDBL45/64 | \$51.80 |
| 23/32" | .7188 | 6" | DWDBL23/32 | \$51.80 |
| 47/64" | .7344 | 6" | DWDBL47/64 | \$55.19 |
| 3/4" | .7500 | 6" | DWDBL3/4 | \$55.19 |
| 49/64" | .7656 | 6" | DWDBL49/64 | \$62.43 |
| 25/32" | .7813 | 6" | DWDBL25/32 | \$62.43 |
| 51/64" | .7969 | 6" | DWDBL51/64 | \$62.43 |
| 13/16" | .8125 | 6" | DWDBL13/16 | \$62.43 |
| 53/64" | .8281 | 6" | DWDBL53/64 | \$73.47 |
| 27/32" | .8438 | 6" | DWDBL27/32 | \$73.47 |
| 55/64" | .8594 | 6" | DWDBL55/64 | \$73.47 |
| 7/8" | .8750 | 6" | DWDBL7/8 | \$73.63 |
| 57/64" | .8906 | 6" | DWDBL57/64 | \$84.83 |
| 29/32" | .9063 | 6" | DWDBL29/32 | \$84.83 |
| 59/64" | .9219 | 6" | DWDBL59/64 | \$84.83 |
| 15/16" | .9375 | 6" | DWDBL15/16 | \$84.83 |
| 61/64" | .9531 | 6" | DWDBL61/64 | \$95.59 |
| 31/32" | .9688 | 6" | DWDBL31/32 | \$95.59 |
| 63/64" | .9844 | 6" | DWDBL63/64 | \$95.59 |
| 1" | 1.0000 | 6" | DWDBL1INCH | \$95.59 |

SCREW MACHINE LENGTH DRILLS

135° SPLIT POINT

DWDST Series - High Speed Economy

D/AST Series - High Speed Premium Quality

Manufactured to National Aerospace Standard 907. 135° split point is self-centering and reduces thrust. Ideal for portable or machine drilling. Short, rugged construction performs well in a broad range of materials in the iron and steel families. Screw machine drills are popular in the automotive and construction industries. They are often used in screw machine setup where spindle clearance is limited. Sizes smaller than 1/16" or #52, and larger than 1/2" have the 118° standard point.



KFDST Series - Black & Gold HSS Contractor Grade

Contractor grade drills are manufactured from M1 High Speed Steel for use in a wide range of materials such as aluminum, iron and steel. Screw machine drills are popular in the automotive and construction industries. They are often used in screw machine setup where spindle clearance is limited. The 135° split point is self-centering and reduces thrust.

D/ASTCO Series - Cobalt Premium Quality

Manufactured to National Aerospace Standard 907. 135° split point is self-centering and reduces thrust. Ideal for portable or machine drilling. Short, rugged construction performs well in high tensile strength materials like PH stainless steel, inconel, and titanium. The 135° split point is self-centering and reduces thrust. Sizes smaller than 1/16" have the 118° standard point.



F R A C T I O N A L S I Z E S

| | | | | DWDST Series | | KFDST Series | | D/AST Series | | D/ASTCO Series | |
|--------|-------------|--------------|----------|--------------|------------|--------------|------------|--------------|------------|----------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| *3/64" | .0469 | 1/2" | 1-3/8" | DWDST3/64 | \$1.36 | - | - | D/AST3/64 | \$2.06 | D/ASTCO3/64 | \$2.39 |
| 1/16" | .0625 | 5/8" | 1-5/8" | DWDST1/16 | \$1.03 | KFDST1/16 | \$1.19 | D/AST1/16 | \$1.39 | D/ASTCO1/16 | \$2.16 |
| 5/64" | .0781 | 11/16" | 1-11/16" | DWDST5/64 | \$1.03 | KFDST5/64 | \$1.19 | D/AST5/64 | \$1.39 | D/ASTCO5/64 | \$2.16 |
| 3/32" | .0938 | 3/4" | 1-3/4" | DWDST3/32 | \$0.99 | KFDST3/32 | \$1.13 | D/AST3/32 | \$1.34 | D/ASTCO3/32 | \$2.16 |
| 7/64" | .1094 | 13/16" | 1-13/16" | DWDST7/64 | \$0.99 | KFDST7/64 | \$1.13 | D/AST7/64 | \$1.34 | D/ASTCO7/64 | \$2.45 |
| 1/8" | .1250 | 7/8" | 1-7/8" | DWDST1/8 | \$0.99 | KFDST1/8 | \$1.13 | D/AST1/8 | \$1.34 | D/ASTCO1/8 | \$2.85 |
| 9/64" | .1406 | 15/16" | 1-15/16" | DWDST9/64 | \$1.11 | KFDST9/64 | \$1.26 | D/AST9/64 | \$1.48 | D/ASTCO9/64 | \$2.85 |
| 5/32" | .1562 | 1" | 2-1/16" | DWDST5/32 | \$1.40 | KFDST5/32 | \$1.61 | D/AST5/32 | \$1.89 | D/ASTCO5/32 | \$3.15 |
| 11/64" | .1719 | 1-1/16" | 2-1/8" | DWDST11/64 | \$1.51 | KFDST11/64 | \$1.71 | D/AST11/64 | \$2.00 | D/ASTCO11/64 | \$3.51 |
| 3/16" | .1875 | 1-1/8" | 2-3/16" | DWDST3/16 | \$1.62 | KFDST3/16 | \$1.82 | D/AST3/16 | \$2.15 | D/ASTCO3/16 | \$4.11 |
| 13/64" | .2031 | 1-3/16" | 2-1/4" | DWDST13/64 | \$1.79 | KFDST13/64 | \$2.04 | D/AST13/64 | \$2.39 | D/ASTCO13/64 | \$4.73 |
| 7/32" | .2188 | 1-1/4" | 2-3/8" | DWDST7/32 | \$1.96 | KFDST7/32 | \$2.27 | D/AST7/32 | \$2.67 | D/ASTCO7/32 | \$5.22 |
| 15/64" | .2344 | 1-5/16" | 2-7/16" | DWDST15/64 | \$2.05 | KFDST15/64 | \$2.34 | D/AST15/64 | \$2.76 | D/ASTCO15/64 | \$5.58 |
| 1/4" | .2500 | 1-3/8" | 2-1/2" | DWDST1/4 | \$2.14 | KFDST1/4 | \$2.43 | D/AST1/4 | \$2.86 | D/ASTCO1/4 | \$5.79 |
| 17/64" | .2656 | 1-7/16" | 2-5/8" | DWDST17/64 | \$3.03 | KFDST17/64 | \$3.31 | D/AST17/64 | \$3.90 | D/ASTCO17/64 | \$6.64 |
| 9/32" | .2813 | 1-1/2" | 2-11/16" | DWDST9/32 | \$3.21 | KFDST9/32 | \$3.50 | D/AST9/32 | \$4.12 | D/ASTCO9/32 | \$7.20 |
| 19/64" | .2969 | 1-9/16" | 2-3/4" | DWDST19/64 | \$3.47 | KFDST19/64 | \$3.81 | D/AST19/64 | \$4.47 | D/ASTCO19/64 | \$8.34 |
| 5/16" | .3125 | 1-5/8" | 2-13/16" | DWDST5/16 | \$3.66 | KFDST5/16 | \$4.01 | D/AST5/16 | \$4.71 | D/ASTCO5/16 | \$9.30 |
| 21/64" | .3281 | 1-11/16" | 2-15/16" | DWDST21/64 | \$4.17 | KFDST21/64 | \$4.49 | D/AST21/64 | \$5.29 | D/ASTCO21/64 | \$9.89 |
| 11/32" | .3438 | 1-11/16" | 3" | DWDST11/32 | \$4.44 | KFDST11/32 | \$4.81 | D/AST11/32 | \$5.67 | D/ASTCO11/32 | \$10.75 |
| 23/64" | .3594 | 1-3/4" | 3-1/16" | DWDST23/64 | \$4.70 | KFDST23/64 | \$5.12 | D/AST23/64 | \$6.02 | D/ASTCO23/64 | \$12.38 |
| 3/8" | .3750 | 1-13/16" | 3-1/8" | DWDST3/8 | \$5.10 | KFDST3/8 | \$5.53 | D/AST3/8 | \$6.51 | D/ASTCO3/8 | \$12.38 |
| 25/64" | .3906 | 1-7/8" | 3-1/4" | DWDST25/64 | \$5.60 | KFDST25/64 | \$6.01 | D/AST25/64 | \$7.07 | D/ASTCO25/64 | \$14.13 |
| 13/32" | .4062 | 1-15/16" | 3-5/16" | DWDST13/32 | \$6.03 | KFDST13/32 | \$6.51 | D/AST13/32 | \$7.66 | D/ASTCO13/32 | \$14.63 |
| 27/64" | .4219 | 2" | 3-3/8" | DWDST27/64 | \$6.40 | KFDST27/64 | \$6.89 | D/AST27/64 | \$8.10 | D/ASTCO27/64 | \$16.17 |
| 7/16" | .4375 | 2-1/16" | 3-7/16" | DWDST7/16 | \$7.03 | KFDST7/16 | \$7.55 | D/AST7/16 | \$8.88 | D/ASTCO7/16 | \$16.61 |
| 29/64" | .4531 | 2-1/8" | 3-9/16" | DWDST29/64 | \$7.56 | KFDST29/64 | \$8.00 | D/AST29/64 | \$9.42 | D/ASTCO29/64 | \$19.92 |
| 15/32" | .4688 | 2-1/8" | 3-5/8" | DWDST15/32 | \$8.29 | KFDST15/32 | \$8.72 | D/AST15/32 | \$10.26 | D/ASTCO15/32 | \$19.92 |
| 31/64" | .4844 | 2-3/16" | 3-11/16" | DWDST31/64 | \$8.65 | KFDST31/64 | \$9.11 | D/AST31/64 | \$10.71 | D/ASTCO31/64 | \$19.92 |
| 1/2" | .5000 | 2-1/4" | 3-3/4" | DWDST1/2 | \$9.11 | KFDST1/2 | \$9.61 | D/AST1/2 | \$11.31 | D/ASTCO1/2 | \$19.75 |

*118° Standard Point

SCREW MACHINE LENGTH DRILLS 118° POINT

F R A C T I O N A L S I Z E S O V E R 1 / 2 "

| Size | Dec. Equiv. | Flute Length | O.A.L. | DWDST Series | | D/ASTCO Series | |
|----------|-------------|--------------|--------|--------------|------------|----------------|------------|
| | | | | Part Number | List Price | Part Number | List Price |
| 33/64" | .5156 | 2-3/8" | 3-7/8" | DWDST33/64 | \$20.80 | D/ASTCO33/64 | \$56.04 |
| 17/32" | .5312 | 2-3/8" | 3-7/8" | DWDST17/32 | \$21.77 | D/ASTCO17/32 | \$56.51 |
| 35/64" | .5469 | 2-1/2" | 4" | DWDST35/64 | \$22.66 | D/ASTCO35/64 | \$60.84 |
| 9/16" | .5625 | 2-1/2" | 4" | DWDST9/16 | \$22.66 | D/ASTCO9/16 | \$58.67 |
| 37/64" | .5781 | 2-5/8" | 4-1/8" | DWDST37/64 | \$25.95 | D/ASTCO37/64 | \$69.67 |
| 19/32" | .5938 | 2-5/8" | 4-1/8" | DWDST19/32 | \$25.95 | D/ASTCO19/32 | \$67.18 |
| 39/64" | .6094 | 2-3/4" | 4-1/4" | DWDST39/64 | \$26.18 | D/ASTCO39/64 | \$70.43 |
| 5/8" | .6250 | 2-3/4" | 4-1/4" | DWDST5/8 | \$26.18 | D/ASTCO5/8 | \$67.90 |
| 41/64" | .6406 | 2-7/8" | 4-1/2" | DWDST41/64 | \$30.08 | D/ASTCO41/64 | \$80.84 |
| 21/32" | .6562 | 2-7/8" | 4-1/2" | DWDST21/32 | \$30.08 | D/ASTCO21/32 | \$77.94 |
| 43/64" | .6719 | 2-7/8" | 4-5/8" | DWDST43/64 | \$33.36 | D/ASTCO43/64 | \$89.56 |
| 11/16" | .6875 | 2-7/8" | 4-5/8" | DWDST11/16 | \$33.36 | D/ASTCO11/16 | \$86.37 |
| 45/64" | .7031 | 3" | 4-3/4" | DWDST45/64 | \$36.18 | D/ASTCO45/64 | \$97.24 |
| 23/32" | .7188 | 3" | 4-3/4" | DWDST23/32 | \$36.18 | D/ASTCO23/32 | \$93.79 |
| 47/64" | .7344 | 3-1/8" | 5" | DWDST47/64 | \$38.16 | D/ASTCO47/64 | \$102.60 |
| 3/4" | .7500 | 3-1/8" | 5" | DWDST3/4 | \$38.16 | D/ASTCO3/4 | \$98.95 |
| 49/64" | .7656 | 3-1/4" | 5-1/8" | DWDST49/64 | \$43.17 | D/ASTCO49/64 | \$124.47 |
| 25/32" | .7812 | 3-1/4" | 5-1/8" | DWDST25/32 | \$43.17 | D/ASTCO25/32 | \$124.47 |
| 51/64" | .7969 | 3-3/8" | 5-1/4" | DWDST51/64 | \$45.43 | D/ASTCO51/64 | \$125.75 |
| 13/16" | .8125 | 3-3/8" | 5-1/4" | DWDST13/16 | \$45.43 | D/ASTCO13/16 | \$128.98 |
| 53/64" | .8281 | 3-1/2" | 5-3/8" | DWDST53/64 | \$48.10 | D/ASTCO53/64 | \$137.51 |
| 27/32" | .8438 | 3-1/2" | 5-3/8" | DWDST27/32 | \$48.10 | D/ASTCO27/32 | \$137.51 |
| 55/64" | .8594 | 3-1/2" | 5-1/2" | DWDST55/64 | \$49.83 | D/ASTCO55/64 | \$148.11 |
| 7/8" | .8750 | 3-1/2" | 5-1/2" | DWDST7/8 | \$49.83 | D/ASTCO7/8 | \$148.11 |
| 57/64" | .8906 | 3-5/8" | 5-5/8" | DWDST57/64 | \$51.75 | D/ASTCO57/64 | \$151.83 |
| 29/32" | .9062 | 3-5/8" | 5-5/8" | DWDST29/32 | \$51.75 | D/ASTCO29/32 | \$152.05 |
| 59/64" | .9219 | 3-3/4" | 5-3/4" | DWDST59/64 | \$57.00 | D/ASTCO59/64 | \$151.83 |
| 15/16" | .9375 | 3-3/4" | 5-3/4" | DWDST15/16 | \$57.00 | D/ASTCO15/16 | \$151.83 |
| 61/64" | .9531 | 3-7/8" | 5-7/8" | DWDST61/64 | \$62.01 | D/ASTCO61/64 | \$176.14 |
| 31/32" | .9688 | 3-7/8" | 5-7/8" | DWDST31/32 | \$62.01 | D/ASTCO31/32 | \$176.14 |
| 63/64" | .9844 | 4" | 6" | DWDST63/64 | \$64.36 | D/ASTCO63/64 | \$184.56 |
| 1" | 1.0000 | 4" | 6" | DWDST1INCH | \$64.36 | D/ASTCO1INCH | \$184.56 |
| 1-1/64" | 1.0156 | 4" | 6" | DWDST1-1/64 | \$79.87 | | |
| 1-1/32" | 1.0312 | 4" | 6-1/4" | DWDST1-1/32 | \$79.87 | | |
| 1-3/64" | 1.0469 | 4" | 6-1/4" | DWDST1-3/64 | \$79.87 | | |
| 1-1/16" | 1.0625 | 4" | 6-1/4" | DWDST1-1/16 | \$79.87 | | |
| 1-5/64" | 1.0781 | 4" | 6-1/4" | DWDST1-5/64 | \$90.51 | | |
| 1-3/32" | 1.0938 | 4" | 6-1/4" | DWDST1-3/32 | \$90.51 | | |
| 1-7/64" | 1.1094 | 4" | 6-1/4" | DWDST1-7/64 | \$90.51 | | |
| 1-1/8" | 1.1250 | 4" | 6-3/8" | DWDST1-1/8 | \$90.51 | | |
| 1-9/64" | 1.1406 | 4" | 6-3/8" | DWDST1-9/64 | \$93.85 | | |
| 1-5/32" | 1.1562 | 4-1/4" | 6-5/8" | DWDST1-5/32 | \$93.85 | | |
| 1-11/64" | 1.1719 | 4-1/4" | 6-5/8" | DWDST1-11/64 | \$93.85 | | |
| 1-3/16" | 1.1875 | 4-1/4" | 6-5/8" | DWDST1-3/16 | \$93.85 | | |
| 1-1/4" | 1.2500 | 4-3/8" | 6-3/4" | DWDST1-1/4 | \$104.97 | | |
| 1-9/32" | 1.2813 | 4-3/8" | 7" | DWDST1-9/32 | \$138.71 | | |
| 1-5/16" | 1.3125 | 4-3/8" | 7" | DWDST1-5/16 | \$138.71 | | |
| 1-3/8" | 1.3750 | 4-1/2" | 7-1/8" | DWDST1-3/8 | \$147.89 | | |
| 1-13/32" | 1.4062 | 4-3/4" | 7-3/8" | DWDST1-13/32 | \$158.53 | | |
| 1-7/16" | 1.4375 | 4-3/4" | 7-3/8" | DWDST1-7/16 | \$158.53 | | |
| 1-1/2" | 1.5000 | 4-7/8" | 7-1/2" | DWDST1-1/2 | \$167.13 | | |
| 2" | 2.0000 | 5-5/8" | 8-1/2" | DWDST2INCH | \$315.65 | | |



SCREW MACHINE LENGTH DRILLS

135° SPLIT POINT

WIRE GAUGE SIZES



| | | | | DWDST Series | | D/AST Series | | D/ASTCO Series | |
|------|-------------|--------------|----------|--------------|------------|--------------|------------|----------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 1 | .2280 | 1-5/16" | 2-7/16" | DWDST1 | \$2.22 | D/AST1 | \$2.67 | D/ASTCO1 | \$6.43 |
| 2 | .2210 | 1-5/16" | 2-7/16" | DWDST2 | \$2.22 | D/AST2 | \$2.67 | D/ASTCO2 | \$6.43 |
| 3 | .2130 | 1-1/4" | 2-3/8" | DWDST3 | \$2.08 | D/AST3 | \$2.49 | D/ASTCO3 | \$6.43 |
| 4 | .2090 | 1-1/4" | 2-3/8" | DWDST4 | \$2.08 | D/AST4 | \$2.49 | D/ASTCO4 | \$5.75 |
| 5 | .2055 | 1-1/4" | 2-3/8" | DWDST5 | \$2.08 | D/AST5 | \$2.49 | D/ASTCO5 | \$5.75 |
| 6 | .2040 | 1-1/4" | 2-3/8" | DWDST6 | \$2.08 | D/AST6 | \$2.49 | D/ASTCO6 | \$5.75 |
| 7 | .2010 | 1-3/16" | 2-1/4" | DWDST7 | \$1.90 | D/AST7 | \$2.28 | D/ASTCO7 | \$4.48 |
| 8 | .1990 | 1-3/16" | 2-1/4" | DWDST8 | \$1.90 | D/AST8 | \$2.28 | D/ASTCO8 | \$4.43 |
| 9 | .1960 | 1-3/16" | 2-1/4" | DWDST9 | \$1.90 | D/AST9 | \$2.28 | D/ASTCO9 | \$4.43 |
| 10 | .1935 | 1-3/16" | 2-1/4" | DWDST10 | \$1.78 | D/AST10 | \$2.15 | D/ASTCO10 | \$4.43 |
| 11 | .1910 | 1-3/16" | 2-1/4" | DWDST11 | \$1.78 | D/AST11 | \$2.15 | D/ASTCO11 | \$4.36 |
| 12 | .1890 | 1-3/16" | 2-1/4" | DWDST12 | \$1.78 | D/AST12 | \$2.15 | D/ASTCO12 | \$4.36 |
| 13 | .1850 | 1-1/8" | 2-3/16" | DWDST13 | \$1.75 | D/AST13 | \$2.11 | D/ASTCO13 | \$4.31 |
| 14 | .1820 | 1-1/8" | 2-3/16" | DWDST14 | \$1.65 | D/AST14 | \$2.01 | D/ASTCO14 | \$4.31 |
| 15 | .1800 | 1-1/8" | 2-3/16" | DWDST15 | \$1.65 | D/AST15 | \$2.01 | D/ASTCO15 | \$4.31 |
| 16 | .1770 | 1-1/8" | 2-3/16" | DWDST16 | \$1.65 | D/AST16 | \$2.01 | D/ASTCO16 | \$4.28 |
| 17 | .1730 | 1-1/8" | 2-3/16" | DWDST17 | \$1.62 | D/AST17 | \$1.98 | D/ASTCO17 | \$4.11 |
| 18 | .1695 | 1-1/16" | 2-1/8" | DWDST18 | \$1.60 | D/AST18 | \$1.91 | D/ASTCO18 | \$3.47 |
| 19 | .1660 | 1-1/16" | 2-1/8" | DWDST19 | \$1.56 | D/AST19 | \$1.88 | D/ASTCO19 | \$3.35 |
| 20 | .1610 | 1-1/16" | 2-1/8" | DWDST20 | \$1.53 | D/AST20 | \$1.84 | D/ASTCO20 | \$3.35 |
| 21 | .1590 | 1-1/16" | 2-1/8" | DWDST21 | \$1.49 | D/AST21 | \$1.80 | D/ASTCO21 | \$3.35 |
| 22 | .1570 | 1-1/16" | 2-1/8" | DWDST22 | \$1.49 | D/AST22 | \$1.80 | D/ASTCO22 | \$3.35 |
| 23 | .1540 | 1" | 2-1/16" | DWDST23 | \$1.45 | D/AST23 | \$1.75 | D/ASTCO23 | \$3.35 |
| 24 | .1520 | 1" | 2-1/16" | DWDST24 | \$1.45 | D/AST24 | \$1.75 | D/ASTCO24 | \$3.35 |
| 25 | .1495 | 1" | 2-1/16" | DWDST25 | \$1.31 | D/AST25 | \$1.58 | D/ASTCO25 | \$3.15 |
| 26 | .1470 | 1" | 2-1/16" | DWDST26 | \$1.31 | D/AST26 | \$1.58 | D/ASTCO26 | \$3.15 |
| 27 | .1440 | 1" | 2-1/16" | DWDST27 | \$1.31 | D/AST27 | \$1.58 | D/ASTCO27 | \$3.15 |
| 28 | .1405 | 15/16" | 1-15/16" | DWDST28 | \$1.19 | D/AST28 | \$1.44 | D/ASTCO28 | \$2.85 |
| 29 | .1360 | 15/16" | 1-15/16" | DWDST29 | \$1.19 | D/AST29 | \$1.44 | D/ASTCO29 | \$2.85 |
| 30 | .1285 | 15/16" | 1-15/16" | DWDST30 | \$1.17 | D/AST30 | \$1.41 | D/ASTCO30 | \$2.68 |
| 31 | .1200 | 7/8" | 1-7/8" | DWDST31 | \$1.09 | D/AST31 | \$1.33 | D/ASTCO31 | \$2.68 |
| 32 | .1160 | 7/8" | 1-7/8" | DWDST32 | \$1.05 | D/AST32 | \$1.27 | D/ASTCO32 | \$2.68 |
| 33 | .1130 | 7/8" | 1-7/8" | DWDST33 | \$1.02 | D/AST33 | \$1.24 | D/ASTCO33 | \$2.57 |
| 34 | .1110 | 7/8" | 1-7/8" | DWDST34 | \$1.02 | D/AST34 | \$1.24 | D/ASTCO34 | \$2.57 |
| 35 | .1100 | 7/8" | 1-7/8" | DWDST35 | \$1.02 | D/AST35 | \$1.24 | D/ASTCO35 | \$2.57 |
| 36 | .1065 | 13/16" | 1-13/16" | DWDST36 | \$1.02 | D/AST36 | \$1.24 | D/ASTCO36 | \$2.57 |
| 37 | .1040 | 13/16" | 1-13/16" | DWDST37 | \$1.02 | D/AST37 | \$1.24 | D/ASTCO37 | \$2.57 |
| 38 | .1015 | 13/16" | 1-13/16" | DWDST38 | \$1.02 | D/AST38 | \$1.24 | D/ASTCO38 | \$2.35 |
| 39 | .0995 | 13/16" | 1-13/16" | DWDST39 | \$1.02 | D/AST39 | \$1.24 | D/ASTCO39 | \$2.35 |
| 40 | .0980 | 13/16" | 1-13/16" | DWDST40 | \$1.02 | D/AST40 | \$1.24 | D/ASTCO40 | \$2.35 |
| 41 | .0960 | 13/16" | 1-13/16" | DWDST41 | \$1.02 | D/AST41 | \$1.24 | D/ASTCO41 | \$2.44 |
| 42 | .0935 | 3/4" | 1-3/4" | DWDST42 | \$1.02 | D/AST42 | \$1.24 | D/ASTCO42 | \$2.40 |
| 43 | .0890 | 3/4" | 1-3/4" | DWDST43 | \$1.02 | D/AST43 | \$1.24 | D/ASTCO43 | \$2.40 |
| 44 | .0860 | 3/4" | 1-3/4" | DWDST44 | \$1.02 | D/AST44 | \$1.24 | D/ASTCO44 | \$2.40 |
| 45 | .0820 | 3/4" | 1-3/4" | DWDST45 | \$1.02 | D/AST45 | \$1.24 | D/ASTCO45 | \$2.40 |
| 46 | .0810 | 3/4" | 1-3/4" | DWDST46 | \$1.02 | D/AST46 | \$1.24 | D/ASTCO46 | \$2.40 |
| 47 | .0785 | 11/16" | 1-11/16" | DWDST47 | \$1.02 | D/AST47 | \$1.24 | D/ASTCO47 | \$2.40 |
| 48 | .0760 | 11/16" | 1-11/16" | DWDST48 | \$1.02 | D/AST48 | \$1.24 | D/ASTCO48 | \$2.40 |
| 49 | .0730 | 11/16" | 1-11/16" | DWDST49 | \$1.02 | D/AST49 | \$1.24 | D/ASTCO49 | \$2.40 |
| 50 | .0700 | 11/16" | 1-11/16" | DWDST50 | \$1.02 | D/AST50 | \$1.24 | D/ASTCO50 | \$2.40 |
| 51 | .0670 | 11/16" | 1-11/16" | DWDST51 | \$1.02 | D/AST51 | \$1.24 | D/ASTCO51 | \$2.40 |
| 52 | .0635 | 11/16" | 1-11/16" | DWDST52 | \$1.02 | D/AST52 | \$1.24 | D/ASTCO52 | \$2.40 |
| *53 | .0595 | 5/8" | 1-5/8" | DWDST53 | \$1.02 | D/AST53 | \$1.24 | D/ASTCO53 | \$2.69 |
| *54 | .0550 | 5/8" | 1-5/8" | DWDST54 | \$1.02 | D/AST54 | \$1.24 | D/ASTCO54 | \$2.69 |
| *55 | .0520 | 5/8" | 1-5/8" | DWDST55 | \$1.02 | D/AST55 | \$1.24 | D/ASTCO55 | \$2.69 |
| *56 | .0465 | 1/2" | 1-3/8" | DWDST56 | \$1.02 | D/AST56 | \$1.24 | D/ASTCO56 | \$2.69 |
| *57 | .0430 | 1/2" | 1-3/8" | DWDST57 | \$1.19 | D/AST57 | \$1.44 | D/ASTCO57 | \$2.69 |
| *58 | .0420 | 1/2" | 1-3/8" | DWDST58 | \$1.19 | D/AST58 | \$1.44 | D/ASTCO58 | \$2.87 |
| *59 | .0410 | 1/2" | 1-3/8" | DWDST59 | \$1.26 | D/AST59 | \$1.55 | D/ASTCO59 | \$2.87 |
| *60 | .0400 | 1/2" | 1-3/8" | DWDST60 | \$1.26 | D/AST60 | \$1.55 | D/ASTCO60 | \$2.87 |

*118° Standard Point

SCREW MACHINE LENGTH DRILLS 135° SPLIT POINT

LETTER SIZES



| | | | | DWDST Series | | D/AST Series | | D/ASTCO Series | |
|------|-------------|--------------|----------|--------------|------------|--------------|------------|----------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| A | .2340 | 1-5/16" | 2-7/16" | DWDSTA | \$2.67 | D/ASTA | \$3.72 | D/ASTCOA | \$7.47 |
| B | .2380 | 1-3/8" | 2-1/2" | DWDSTB | \$2.67 | D/ASTB | \$3.72 | D/ASTCOB | \$7.95 |
| C | .2420 | 1-3/8" | 2-1/2" | DWDSTC | \$2.67 | D/ASTC | \$3.72 | D/ASTCOC | \$7.95 |
| D | .2460 | 1-3/8" | 2-1/2" | DWDSTD | \$2.67 | D/ASTD | \$3.72 | D/ASTCOD | \$7.95 |
| E | .2500 | 1-3/8" | 2-1/2" | DWDSTE | \$2.88 | D/ASTE | \$4.00 | D/ASTCOE | \$7.24 |
| F | .2570 | 1-7/16" | 2-5/8" | DWDSTF | \$3.10 | D/ASTF | \$4.16 | D/ASTCOF | \$8.41 |
| G | .2610 | 1-7/16" | 2-5/8" | DWDSTG | \$3.24 | D/ASTG | \$4.43 | D/ASTCOG | \$8.41 |
| H | .2660 | 1-1/2" | 2-11/16" | DWDSTH | \$3.24 | D/ASTH | \$4.43 | D/ASTCOH | \$8.92 |
| I | .2720 | 1-1/2" | 2-11/16" | DWDSTI | \$3.24 | D/ASTI | \$4.43 | D/ASTCOI | \$8.92 |
| J | .2770 | 1-1/2" | 2-11/16" | DWDSTJ | \$3.48 | D/ASTJ | \$4.67 | D/ASTCOJ | \$8.92 |
| K | .2810 | 1-1/2" | 2-11/16" | DWDSTK | \$3.72 | D/ASTK | \$5.08 | D/ASTCOK | \$8.92 |
| L | .2900 | 1-9/16" | 2-3/4" | DWDSTL | \$3.72 | D/ASTL | \$5.08 | D/ASTCOL | \$10.56 |
| M | .2950 | 1-9/16" | 2-3/4" | DWDSTM | \$4.06 | D/ASTM | \$5.56 | D/ASTCOM | \$10.56 |
| N | .3020 | 1-5/8" | 2-13/16" | DWDSTN | \$4.06 | D/ASTN | \$5.56 | D/ASTCON | \$11.35 |
| O | .3160 | 1-11/16" | 2-15/16" | DWDSTO | \$4.12 | D/ASTO | \$5.56 | D/ASTCOO | \$12.58 |
| P | .3230 | 1-11/16" | 2-15/16" | DWDSTP | \$4.62 | D/ASTP | \$6.26 | D/ASTCOP | \$12.58 |
| Q | .3320 | 1-11/16" | 3" | DWDSTQ | \$4.66 | D/ASTQ | \$6.26 | D/ASTCOQ | \$13.60 |
| R | .3390 | 1-11/16" | 3" | DWDSTR | \$4.70 | D/ASTR | \$6.34 | D/ASTCOR | \$13.60 |
| S | .3480 | 1-3/4" | 3-1/16" | DWDSTS | \$5.34 | D/ASTS | \$7.20 | D/ASTCOS | \$16.94 |
| T | .3580 | 1-3/4" | 3-1/16" | DWDSTT | \$6.20 | D/ASTT | \$8.37 | D/ASTCOT | \$16.94 |
| U | .3680 | 1-13/16" | 3-1/8" | DWDSTU | \$6.20 | D/ASTU | \$8.37 | D/ASTCOU | \$16.94 |
| V | .3770 | 1-7/8" | 3-1/4" | DWDSTV | \$6.69 | D/ASTV | \$8.91 | D/ASTCOV | \$18.78 |
| W | .3860 | 1-7/8" | 3-1/4" | DWDSTW | \$7.06 | D/ASTW | \$9.39 | D/ASTCOW | \$18.78 |
| X | .3970 | 1-15/16" | 3-5/16" | DWDSTX | \$8.14 | D/ASTX | \$10.88 | D/ASTCOX | \$18.78 |
| Y | .4040 | 1-15/16" | 3-5/16" | DWDSTY | \$9.65 | D/ASTY | \$12.87 | D/ASTCOY | \$18.78 |
| Z | .4130 | 2" | 3-3/8" | DWDSTZ | \$9.65 | D/ASTZ | \$12.87 | D/ASTCOZ | \$21.54 |

BLUE DIAMOND SEGMENT

DIA Series - Diamond Bits



| Size | Part Number | List Price |
|-------|-------------|------------|
| 1/4" | DIA1/4 | \$48.02 |
| 5/16" | DIA5/16 | \$43.88 |
| 3/8" | DIA3/8 | \$48.87 |
| 1/2" | DIA1/2 | \$62.77 |

SHARPENING STONE
DIA416 \$25.02



KFD MECHANICS LENGTH DRILLS 135° SPLIT POINT

KFDML Series - KFD Mechanics Length

Manufactured from premium grade high speed steel, Killer Force Drills have a heavy duty 135° split point for self-centering and reducing thrust. Gold and black surface treated for use in stainless steel and other hard metal drilling. *Sizes 1/16" - 11/64" have a round shank.



F R A C T I O N A L S I Z E S

| KFDML Series | | | | | | KFDML Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|--------------|-------------|--------------|---------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| *1/16" | .0625 | 7/8" | 1-7/8" | KFDML1/16 | \$1.20 | 19/64" | .2969 | 2-1/4" | 3-3/4" | KFDML19/64 | \$4.78 |
| *5/64" | .0781 | 1" | 2" | KFDML5/64 | \$1.29 | 5/16" | .3125 | 2-3/8" | 4" | KFDML5/16 | \$4.92 |
| *3/32" | .0938 | 1-1/8" | 2-1/4" | KFDML3/32 | \$1.29 | 21/64" | .3281 | 2-1/2" | 4-1/16" | KFDML21/64 | \$5.19 |
| *7/64" | .1094 | 1-1/8" | 2-3/8" | KFDML7/64 | \$1.52 | 11/32" | .3438 | 2-9/16" | 4-1/8" | KFDML11/32 | \$6.22 |
| *1/8" | .1250 | 1-3/16" | 2-1/2" | KFDML1/8 | \$1.52 | 23/64" | .3594 | 2-9/16" | 4-3/16" | KFDML23/64 | \$6.91 |
| *9/64" | .1406 | 1-3/8" | 2-5/8" | KFDML9/64 | \$1.52 | 3/8" | .3750 | 2-5/8" | 4-1/4" | KFDML3/8 | \$7.38 |
| *5/32" | .1562 | 1-1/2" | 2-3/4" | KFDML5/32 | \$1.71 | 25/64" | .3906 | 2-5/8" | 4-5/16" | KFDML25/64 | \$8.11 |
| *11/64" | .1719 | 1-9/16" | 2-7/8" | KFDML11/64 | \$1.74 | 13/32" | .4062 | 2-11/16" | 4-3/8" | KFDML13/32 | \$8.51 |
| 3/16" | .1875 | 1-5/8" | 3" | KFDML3/16 | \$2.13 | 27/64" | .4219 | 2-3/4" | 4-7/16" | KFDML27/64 | \$8.98 |
| 13/64" | .2031 | 1-11/16" | 3-1/8" | KFDML13/64 | \$2.42 | 7/16" | .4375 | 2-7/8" | 4-1/2" | KFDML7/16 | \$9.42 |
| 7/32" | .2188 | 1-3/4" | 3-1/4" | KFDML7/32 | \$2.64 | 29/64" | .4531 | 2-15/16" | 4-5/8" | KFDML29/64 | \$10.61 |
| 15/64" | .2344 | 1-7/8" | 3-3/8" | KFDML15/64 | \$2.96 | 15/32" | .4688 | 3" | 4-3/4" | KFDML15/32 | \$11.26 |
| 1/4" | .2500 | 2" | 3-1/2" | KFDML1/4 | \$3.14 | 31/64" | .4844 | 3-1/8" | 4-7/8" | KFDML31/64 | \$11.66 |
| 17/64" | .2656 | 2" | 3-5/8" | KFDML17/64 | \$3.96 | 1/2" | .5000 | 3-1/4" | 5" | KFDML1/2 | \$12.06 |
| 9/32" | .2812 | 2-3/16" | 3-5/8" | KFDML9/32 | \$4.01 | | | | | | |

HSS DOUBLE END DRILLS 135° SPLIT POINT

DWDDE - Economy

D/ADE - Premium Quality

Used for drilling truck and auto bodies, or any thin sheet metal. Popular for pop rivet drilling applications. 135° self-centering split point aids in penetration.



| | | | | DWDDE Series | | D/ADE Series | |
|-------|-------------|--------------|---------|--------------|------------|--------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 7/64" | .1094 | 1/2" | 1-7/8" | DWDDE7/64 | \$2.09 | D/ADE7/64 | \$3.35 |
| 1/8" | .1250 | 1/2" | 2" | DWDDE1/8 | \$1.87 | D/ADE1/8 | \$3.20 |
| 30 | .1285 | 1/2" | 2" | DWDDE30 | \$1.87 | D/ADE30 | \$3.20 |
| 9/64" | .1406 | 1/2" | 2" | DWDDE9/64 | \$1.99 | D/ADE9/64 | \$3.26 |
| 5/32" | .1563 | 1/2" | 2-1/16" | DWDDE5/32 | \$2.17 | D/ADE5/32 | \$3.55 |
| 20 | .1610 | 1/2" | 2-1/8" | DWDDE20 | \$3.00 | D/ADE20 | \$4.88 |
| 3/16" | .1875 | 1/2" | 2-3/16" | DWDDE3/16 | \$2.95 | D/ADE3/16 | \$4.38 |
| 11 | .1910 | 1/2" | 2-1/4" | DWDDE11 | \$4.05 | D/ADE11 | \$5.98 |
| 7/32" | .2188 | 1/2" | 2-3/8" | DWDDE7/32 | \$3.79 | D/ADE7/32 | \$5.63 |
| 1/4" | .2500 | 1/2" | 2-1/2" | DWDDE1/4 | \$4.54 | D/ADE1/4 | \$6.71 |

SOLID CARBIDE DRILLS 118° POINT

DMOD Series - Solid Carbide Drills

Solid carbide drills are designed for drilling abrasive materials when drilling accuracy must be maintained and/or when used in high temperature drilling applications. Solid Carbide drills are used on materials such as cast iron, the non-ferrous alloys, high silicon aluminum, copper, plastics, bronze, hard rubber, plexiglass, and other similar materials.

FRACTIONAL SIZES

| DMOD Series | | | | | | DMOD Series | | | | | |
|-------------|-------------|--------------|--------|-------------|------------|-------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| 1/32" | .0312 | 1/2" | 1-1/4" | DMOD1/32 | \$20.78 | 9/32" | .2813 | 2-1/8" | 3-1/2" | DMOD9/32 | \$60.25 |
| 3/64" | .0469 | 3/4" | 1-1/2" | DMOD3/64 | \$15.86 | 19/64" | .2969 | 2-3/8" | 3-3/4" | DMOD19/64 | \$68.80 |
| 1/16" | .0625 | 3/4" | 1-1/2" | DMOD1/16 | \$15.29 | 5/16" | .3125 | 2-3/8" | 3-3/4" | DMOD5/16 | \$67.56 |
| 5/64" | .0781 | 7/8" | 1-3/4" | DMOD5/64 | \$16.40 | 21/64" | .3281 | 2-1/2" | 4" | DMOD21/64 | \$79.66 |
| 3/32" | .0938 | 1" | 2" | DMOD3/32 | \$18.76 | 11/32" | .3438 | 2-1/2" | 4" | DMOD11/32 | \$85.81 |
| 7/64" | .1094 | 1-1/4" | 2-1/4" | DMOD7/64 | \$22.20 | 23/64" | .3594 | 2-3/4" | 4-1/4" | DMOD23/64 | \$90.62 |
| 1/8" | .1250 | 1-1/4" | 2-1/4" | DMOD1/8 | \$22.20 | 3/8" | .3750 | 2-3/4" | 4-1/4" | DMOD3/8 | \$96.56 |
| 9/64" | .1406 | 1-3/8" | 2-1/2" | DMOD9/64 | \$26.16 | 25/64" | .3906 | 2-7/8" | 4-1/2" | DMOD25/64 | \$115.29 |
| 5/32" | .1563 | 1-3/8" | 2-1/2" | DMOD5/32 | \$28.13 | 13/32" | .4063 | 2-7/8" | 4-1/2" | DMOD13/32 | \$124.73 |
| 11/64" | .1719 | 1-5/8" | 2-3/4" | DMOD11/64 | \$33.91 | 27/64" | .4219 | 2-7/8" | 4-1/2" | DMOD27/64 | \$131.32 |
| 3/16" | .1875 | 1-5/8" | 2-3/4" | DMOD3/16 | \$33.80 | 7/16" | .4375 | 2-7/8" | 4-1/2" | DMOD7/16 | \$131.71 |
| 13/64" | .2031 | 1-3/4" | 3" | DMOD13/64 | \$42.16 | 29/64" | .4531 | 3" | 4-3/4" | DMOD29/64 | \$154.55 |
| 7/32" | .2188 | 1-3/4" | 3" | DMOD7/32 | \$45.17 | 15/32" | .4688 | 3" | 4-3/4" | DMOD15/32 | \$160.45 |
| 15/64" | .2344 | 2" | 3-1/4" | DMOD15/64 | \$48.69 | 31/64" | .4844 | 3" | 4-3/4" | DMOD31/64 | \$164.02 |
| 1/4" | .2500 | 2" | 3-1/4" | DMOD1/4 | \$46.92 | 1/2" | .5000 | 3" | 4-3/4" | DMOD1/2 | \$163.42 |
| 17/64" | .2656 | 2-1/8" | 3-1/2" | DMOD17/64 | \$57.80 | | | | | | |



WIRE GAUGE SIZES

| DMOD Series | | | | | | DMOD Series | | | | | |
|-------------|-------------|--------------|--------|-------------|------------|-------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| 1 | .2280 | 1-3/4" | 3" | DMOD1 | \$47.35 | 31 | .1200 | 1-1/4" | 2-1/4" | DMOD31 | \$24.18 |
| 2 | .2210 | 1-3/4" | 3" | DMOD2 | \$47.11 | 32 | .1160 | 1-1/4" | 2-1/4" | DMOD32 | \$24.42 |
| 3 | .2130 | 1-3/4" | 3" | DMOD3 | \$45.30 | 33 | .1130 | 1-1/4" | 2-1/4" | DMOD33 | \$23.44 |
| 4 | .2090 | 1-3/4" | 3" | DMOD4 | \$44.42 | 34 | .1110 | 1-1/4" | 2-1/4" | DMOD34 | \$23.44 |
| 5 | .2055 | 1-3/4" | 3" | DMOD5 | \$43.59 | 35 | .1100 | 1-1/4" | 2-1/4" | DMOD35 | \$22.76 |
| 6 | .2040 | 1-3/4" | 3" | DMOD6 | \$42.81 | 36 | .1065 | 1-1/4" | 2-1/4" | DMOD36 | \$23.53 |
| 7 | .2010 | 1-3/4" | 3" | DMOD7 | \$47.47 | 37 | .1040 | 1-1/4" | 2-1/4" | DMOD37 | \$23.04 |
| 8 | .1990 | 1-3/4" | 3" | DMOD8 | \$40.78 | 38 | .1015 | 1-1/4" | 2-1/4" | DMOD38 | \$23.04 |
| 9 | .1960 | 1-3/4" | 3" | DMOD9 | \$39.56 | 39 | .0995 | 1-1/4" | 2-1/4" | DMOD39 | \$22.48 |
| 10 | .1935 | 1-5/8" | 2-3/4" | DMOD10 | \$36.96 | 40 | .0980 | 1" | 2" | DMOD40 | \$21.09 |
| 11 | .1910 | 1-5/8" | 2-3/4" | DMOD11 | \$40.13 | 41 | .0960 | 1" | 2" | DMOD41 | \$21.09 |
| 12 | .1890 | 1-5/8" | 2-3/4" | DMOD12 | \$36.82 | 42 | .0935 | 1" | 2" | DMOD42 | \$20.21 |
| 13 | .1850 | 1-5/8" | 2-3/4" | DMOD13 | \$35.51 | 43 | .0890 | 1" | 2" | DMOD43 | \$20.21 |
| 14 | .1820 | 1-5/8" | 2-3/4" | DMOD14 | \$35.20 | 44 | .0860 | 1" | 2" | DMOD44 | \$20.21 |
| 15 | .1800 | 1-5/8" | 2-3/4" | DMOD15 | \$34.50 | 45 | .0820 | 7/8" | 1-3/4" | DMOD45 | \$20.21 |
| 16 | .1770 | 1-5/8" | 2-3/4" | DMOD16 | \$35.85 | 46 | .0810 | 7/8" | 1-3/4" | DMOD46 | \$20.21 |
| 17 | .1730 | 1-5/8" | 2-3/4" | DMOD17 | \$35.36 | 47 | .0785 | 7/8" | 1-3/4" | DMOD47 | \$18.70 |
| 18 | .1695 | 1-5/8" | 2-3/4" | DMOD18 | \$34.25 | 48 | .0760 | 7/8" | 1-3/4" | DMOD48 | \$17.98 |
| 19 | .1660 | 1-5/8" | 2-3/4" | DMOD19 | \$33.71 | 49 | .0730 | 7/8" | 1-3/4" | DMOD49 | \$17.98 |
| 20 | .1610 | 1-3/8" | 2-1/2" | DMOD20 | \$30.98 | 50 | .0700 | 7/8" | 1-3/4" | DMOD50 | \$16.40 |
| 21 | .1590 | 1-3/8" | 2-1/2" | DMOD21 | \$30.73 | 51 | .0670 | 3/4" | 1-1/2" | DMOD51 | \$16.40 |
| 22 | .1570 | 1-3/8" | 2-1/2" | DMOD22 | \$31.34 | 52 | .0635 | 3/4" | 1-1/2" | DMOD52 | \$16.40 |
| 23 | .1540 | 1-3/8" | 2-1/2" | DMOD23 | \$29.26 | 53 | .0595 | 3/4" | 1-1/2" | DMOD53 | \$16.89 |
| 24 | .1520 | 1-3/8" | 2-1/2" | DMOD24 | \$27.71 | 54 | .0550 | 3/4" | 1-1/2" | DMOD54 | \$16.89 |
| 25 | .1495 | 1-3/8" | 2-1/2" | DMOD25 | \$27.60 | 55 | .0520 | 3/4" | 1-1/2" | DMOD55 | \$16.74 |
| 26 | .1470 | 1-3/8" | 2-1/2" | DMOD26 | \$28.32 | 56 | .0465 | 3/4" | 1-1/2" | DMOD56 | \$17.89 |
| 27 | .1440 | 1-3/8" | 2-1/2" | DMOD27 | \$28.32 | 57 | .0430 | 3/4" | 1-1/2" | DMOD57 | \$21.21 |
| 28 | .1405 | 1-3/8" | 2-1/2" | DMOD28 | \$28.20 | 58 | .0420 | 3/4" | 1-1/2" | DMOD58 | \$21.21 |
| 29 | .1360 | 1-3/8" | 2-1/2" | DMOD29 | \$25.87 | 59 | .0410 | 3/4" | 1-1/2" | DMOD59 | \$21.21 |
| 30 | .1285 | 1-1/4" | 2-1/4" | DMOD30 | \$24.00 | 60 | .0400 | 3/4" | 1-1/2" | DMOD60 | \$21.21 |

SOLID CARBIDE DRILLS 118° POINT

LETTER SIZES

| DMOD Series | | | | | | DMOD Series | | | | | |
|-------------|-------------|--------------|--------|-------------|------------|-------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| A | .2340 | 2" | 3-1/4" | DMODA | \$54.86 | N | .3020 | 2-3/8" | 3-3/4" | DMODN | \$81.90 |
| B | .2380 | 2" | 3-1/4" | DMODB | \$55.77 | O | .3160 | 2-3/8" | 3-3/4" | DMODO | \$88.28 |
| C | .2420 | 2" | 3-1/4" | DMODC | \$56.42 | P | .3230 | 2-3/8" | 3-3/4" | DMODP | \$88.28 |
| D | .2460 | 2" | 3-1/4" | DMODD | \$56.81 | Q | .3320 | 2-1/2" | 4" | DMODQ | \$92.07 |
| E | .2500 | 2" | 3-1/4" | DMODE | \$58.37 | R | .3390 | 2-1/2" | 4" | DMODR | \$95.60 |
| F | .2570 | 2" | 3-1/4" | DMODF | \$62.78 | S | .3480 | 2-1/2" | 4" | DMODS | \$99.67 |
| G | .2610 | 2-1/8" | 3-1/2" | DMODG | \$63.60 | T | .3580 | 2-3/4" | 4-1/4" | DMODT | \$101.70 |
| H | .2660 | 2-1/8" | 3-1/2" | DMODH | \$66.85 | U | .3680 | 2-3/4" | 4-1/4" | DMODU | \$115.12 |
| I | .2720 | 2-1/8" | 3-1/2" | DMODI | \$67.80 | V | .3770 | 2-3/4" | 4-1/4" | DMODV | \$124.80 |
| J | .2770 | 2-1/8" | 3-1/2" | DMODJ | \$69.02 | W | .3860 | 2-7/8" | 4-1/2" | DMODW | \$127.92 |
| K | .2810 | 2-1/8" | 3-1/2" | DMODK | \$69.44 | X | .3970 | 2-7/8" | 4-1/2" | DMODX | \$138.81 |
| L | .2900 | 2-1/8" | 3-1/2" | DMODL | \$72.27 | Y | .4040 | 2-7/8" | 4-1/2" | DMODY | \$139.94 |
| M | .2950 | 2-3/8" | 3-3/4" | DMODM | \$77.57 | Z | .4130 | 2-7/8" | 4-1/2" | DMODZ | \$146.74 |

DIE DRILLS

D/ADIE Series - Carbide Tipped Die Drills

Run at 75 to 100 surface feet per minute with steady hand feed. It is good practice to clear the drill from the hole to allow coolant to wash away the chips. Designed for drilling hardened steels in the range of 45-65 Rc. Note: Sizes under 11/64" are solid carbide spade construction.

| D/ADIE Series | | | | | | D/ADIE Series | | | | | |
|---------------|-------------|--------------|--------|-------------|------------|---------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| 1/16" | .0625 | 15/32" | 2" | D/ADIE1/16 | \$21.17 | 27/64" | .4219 | 3" | 5-1/2" | D/ADIE27/64 | \$95.34 |
| 3/32" | .0938 | 17/32" | 2" | D/ADIE3/32 | \$21.32 | 7/16" | .4375 | 3" | 5-1/2" | D/ADIE7/16 | \$95.34 |
| 1/8" | .1250 | 21/32" | 2" | D/ADIE1/8 | \$22.44 | 29/64" | .4531 | 3-1/4" | 5-3/4" | D/ADIE29/64 | \$114.34 |
| 5/32" | .1562 | 21/32" | 2" | D/ADIE5/32 | \$30.04 | 15/32" | .4688 | 3-1/4" | 5-3/4" | D/ADIE15/32 | \$104.81 |
| 11/64" | .1719 | 1-1/2" | 3-1/2" | D/ADIE11/64 | \$51.98 | 31/64" | .4844 | 3-1/2" | 6" | D/ADIE31/64 | \$148.23 |
| 3/16" | .1875 | 1-1/2" | 3-1/2" | D/ADIE3/16 | \$51.98 | 1/2" | .5000 | 3-1/2" | 6" | D/ADIE1/2 | \$122.89 |
| 13/64" | .2031 | 1-3/4" | 3-3/4" | D/ADIE13/64 | \$53.60 | 17/32" | .5312 | 3-1/2" | 6" | D/ADIE17/32 | \$148.39 |
| 7/32" | .2188 | 1-3/4" | 3-3/4" | D/ADIE7/32 | \$53.60 | 9/16" | .5625 | 3-1/2" | 6" | D/ADIE9/16 | \$148.39 |
| 15/64" | .2344 | 2" | 4" | D/ADIE15/64 | \$55.52 | 19/32" | .5938 | 4" | 7" | D/ADIE19/32 | \$176.62 |
| 1/4" | .2500 | 2" | 4" | D/ADIE1/4 | \$55.52 | 5/8" | .6250 | 4" | 7" | D/ADIE5/8 | \$161.90 |
| 17/64" | .2656 | 2-1/4" | 4-1/4" | D/ADIE17/64 | \$67.27 | 21/32" | .6562 | 4-1/2" | 7-1/2" | D/ADIE21/32 | \$170.54 |
| 9/32" | .2812 | 2-1/4" | 4-1/4" | D/ADIE9/32 | \$58.66 | 11/16" | .6875 | 4-1/2" | 7-1/2" | D/ADIE11/16 | \$175.33 |
| 19/64" | .2969 | 2-1/2" | 4-1/2" | D/ADIE19/64 | \$61.36 | 23/32" | .7188 | 4-3/4" | 8" | D/ADIE23/32 | \$184.01 |
| 5/16" | .3125 | 2-1/2" | 4-1/2" | D/ADIE5/16 | \$61.36 | 3/4" | .7500 | 4-3/4" | 8" | D/ADIE3/4 | \$188.81 |
| 21/64" | .3281 | 2-3/4" | 4-3/4" | D/ADIE21/64 | \$66.06 | | | | | | |
| 11/32" | .3438 | 2-3/4" | 4-3/4" | D/ADIE11/32 | \$66.06 | | | | | | |
| 23/64" | .3594 | 3" | 5" | D/ADIE23/64 | \$82.23 | | | | | | |
| 3/8" | .3750 | 3" | 5" | D/ADIE3/8 | \$70.38 | | | | | | |
| 25/64" | .3906 | 3" | 5-1/4" | D/ADIE25/64 | \$89.58 | | | | | | |
| 13/32" | .4062 | 3" | 5-1/4" | D/ADIE13/32 | \$82.11 | | | | | | |

CARBIDE SPADE DRILLS

DMOSPADE Series - Carbide Spade Drills

| DMOSPADE Series | | | | | DMOSPADE Series | | | | |
|-----------------|-------------|--------|---------------|------------|-----------------|-------------|--------|---------------|------------|
| Size | Dec. Equiv. | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | O.A.L. | Part Number | List Price |
| 1/16" | 0.0625 | 1-1/2" | DMO1/16SPADE | \$24.05 | 9/32" | 0.2813 | 2" | DMO9/32SPADE | \$56.92 |
| 3/32" | 0.0938 | 1-1/2" | DMO3/32SPADE | \$24.05 | 5/16" | 0.3125 | 2-1/2" | DMO5/16SPADE | \$65.25 |
| 7/64" | 0.1094 | 1-1/2" | DMO7/64SPADE | \$21.58 | 11/32" | 0.3438 | 2-1/2" | DMO11/32SPADE | \$72.62 |
| 1/8" | 0.1250 | 1-1/2" | DMO1/8SPADE | \$24.53 | 3/8" | 0.3750 | 2-1/2" | DMO3/8SPADE | \$76.80 |
| 9/64" | 0.1406 | 1-1/2" | DMO9/64SPADE | \$24.32 | 13/32" | 0.4063 | 2-1/2" | DMO13/32SPADE | \$89.46 |
| 5/32" | 0.1563 | 2" | DMO5/32SPADE | \$28.86 | 7/16" | 0.4375 | 2-3/4" | DMO7/16SPADE | \$92.20 |
| 11/64" | 0.1719 | 2" | DMO11/64SPADE | \$28.86 | 15/32" | 0.4688 | 2-1/2" | DMO15/32SPADE | \$106.63 |
| 3/16" | 0.1875 | 2" | DMO3/16SPADE | \$32.54 | 1/2" | 0.5000 | 3" | DMO1/2SPADE | \$114.47 |
| 7/32" | 0.2188 | 2" | DMO7/32SPADE | \$40.56 | | | | | |
| 1/4" | 0.2500 | 2" | DMO1/4SPADE | \$45.86 | | | | | |

CARBIDE TIPPED JOBBER DRILLS

118° POINT

D/ACT Series - Carbide Tipped

Features heavy-duty construction and heat treated body for optimum wear resistance and support of the carbide tip. Used in the production of cast iron, non-ferrous metals, and many composite materials such as hard rubber or copper alloys NOT RECOMMENDED FOR DRILLING STEEL.



FRACTIONAL SIZES

WIRE GAUGE SIZES

| D/ACT Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| 1/8" | .1250 | 1-5/8" | 2-3/4" | D/ACT1/8 | \$25.62 |
| 9/64" | .1406 | 1-3/4" | 2-7/8" | D/ACT9/64 | \$27.08 |
| 5/32" | .1562 | 2" | 3-1/8" | D/ACT5/32 | \$27.08 |
| 11/64" | .1719 | 2-1/8" | 3-1/4" | D/ACT11/64 | \$32.43 |
| 3/16" | .1875 | 2-5/16" | 3-1/2" | D/ACT3/16 | \$28.93 |
| 13/64" | .2031 | 2-7/16" | 3-5/8" | D/ACT13/64 | \$34.40 |
| 7/32" | .2188 | 2-1/2" | 3-3/4" | D/ACT7/32 | \$34.40 |
| 15/64" | .2344 | 2-5/8" | 3-7/8" | D/ACT15/64 | \$37.20 |
| 1/4" | .2500 | 2-3/4" | 4" | D/ACT1/4 | \$34.10 |
| 17/64" | .2656 | 2-7/8" | 4-1/8" | D/ACT17/64 | \$40.08 |
| 9/32" | .2812 | 2-15/16" | 4-1/4" | D/ACT9/32 | \$40.08 |
| 19/64" | .2969 | 3-1/16" | 4-3/8" | D/ACT19/64 | \$43.38 |
| 5/16" | .3125 | 3-3/16" | 4-1/2" | D/ACT5/16 | \$43.38 |
| 21/64" | .3281 | 3-5/16" | 4-5/8" | D/ACT21/64 | \$46.09 |
| 11/32" | .3438 | 3-7/16" | 4-3/4" | D/ACT11/32 | \$50.28 |
| 23/64" | .3594 | 3-1/2" | 4-7/8" | D/ACT23/64 | \$53.44 |
| 3/8" | .3750 | 3-5/8" | 5" | D/ACT3/8 | \$49.00 |
| 25/64" | .3906 | 3-3/4" | 5-1/8" | D/ACT25/64 | \$53.36 |
| 13/32" | .4062 | 3-7/8" | 5-1/4" | D/ACT13/32 | \$53.36 |
| 27/64" | .4219 | 3-15/16" | 5-3/8" | D/ACT27/64 | \$63.07 |
| 7/16" | .4375 | 4-1/16" | 5-1/2" | D/ACT7/16 | \$57.81 |
| 29/64" | .4531 | 4-3/16" | 5-5/8" | D/ACT29/64 | \$72.87 |
| 15/32" | .4688 | 4-5/16" | 5-3/4" | D/ACT15/32 | \$70.88 |
| 31/64" | .4844 | 4-3/8" | 5-7/8" | D/ACT31/64 | \$79.34 |
| 1/2" | .5000 | 4-1/2" | 6" | D/ACT1/2 | \$79.34 |

| D/ACT Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| 1 | .2280 | 2-5/8" | 3-7/8" | D/ACT1 | \$36.77 |
| 2 | .2210 | 2-5/8" | 3-7/8" | D/ACT2 | \$36.77 |
| 3 | .2130 | 2-1/2" | 3-3/4" | D/ACT3 | \$34.79 |
| 4 | .2090 | 2-1/2" | 3-3/4" | D/ACT4 | \$34.79 |
| 5 | .2055 | 2-1/2" | 3-3/4" | D/ACT5 | \$34.79 |
| 6 | .2040 | 2-1/2" | 3-3/4" | D/ACT6 | \$34.79 |
| 7 | .2010 | 2-7/16" | 3-5/8" | D/ACT7 | \$34.79 |
| 8 | .1990 | 2-7/16" | 3-5/8" | D/ACT8 | \$34.79 |
| 9 | .1960 | 2-7/16" | 3-5/8" | D/ACT9 | \$34.79 |
| 10 | .1935 | 2-7/16" | 3-5/8" | D/ACT10 | \$34.79 |
| 11 | .1910 | 2-5/16" | 3-1/2" | D/ACT11 | \$34.79 |
| 12 | .1890 | 2-5/16" | 3-1/2" | D/ACT12 | \$34.79 |
| 13 | .1850 | 2-5/16" | 3-1/2" | D/ACT13 | \$34.79 |
| 14 | .1820 | 2-3/16" | 3-3/8" | D/ACT14 | \$32.89 |
| 15 | .1800 | 2-3/16" | 3-3/8" | D/ACT15 | \$32.89 |
| 16 | .1770 | 2-3/16" | 3-3/8" | D/ACT16 | \$32.89 |
| 17 | .1730 | 2-3/16" | 3-3/8" | D/ACT17 | \$32.89 |
| 18 | .1695 | 2-1/8" | 3-1/4" | D/ACT18 | \$32.89 |
| 19 | .1660 | 2-1/8" | 3-1/4" | D/ACT19 | \$32.89 |
| 20 | .1610 | 2-1/8" | 3-1/4" | D/ACT20 | \$32.89 |
| 21 | .1590 | 2-1/8" | 3-1/4" | D/ACT21 | \$32.89 |
| 22 | .1570 | 2" | 3-1/8" | D/ACT22 | \$32.89 |
| 23 | .1540 | 2" | 3-1/8" | D/ACT23 | \$31.07 |
| 24 | .1520 | 2" | 3-1/8" | D/ACT24 | \$31.07 |
| 25 | .1495 | 1-7/8" | 3" | D/ACT25 | \$31.07 |
| 26 | .1470 | 1-7/8" | 3" | D/ACT26 | \$31.07 |
| 27 | .1440 | 1-7/8" | 3" | D/ACT27 | \$31.07 |
| 28 | .1405 | 1-3/4" | 2-7/8" | D/ACT28 | \$31.07 |
| 29 | .1360 | 1-3/4" | 2-7/8" | D/ACT29 | \$30.49 |
| 30 | .1285 | 1-5/8" | 2-3/4" | D/ACT30 | \$29.63 |
| 31 | .1200 | 1-5/8" | 2-3/4" | D/ACT31 | \$29.63 |
| 32 | .1160 | 1-5/8" | 2-3/4" | D/ACT32 | \$30.49 |

LETTER SIZES

| D/ACT Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| A | .2340 | 2-5/8" | 3-7/8" | D/ACTA | \$42.16 |
| B | .2380 | 2-3/4" | 4" | D/ACTB | \$42.16 |
| C | .2420 | 2-3/4" | 4" | D/ACTC | \$42.16 |
| D | .2460 | 2-3/4" | 4" | D/ACTD | \$42.16 |
| E | .2500 | 2-3/4" | 4" | D/ACTE | \$40.28 |
| F | .2570 | 2-7/8" | 4-1/8" | D/ACTF | \$47.63 |
| G | .2610 | 2-7/8" | 4-1/8" | D/ACTG | \$48.48 |
| H | .2660 | 2-7/8" | 4-1/8" | D/ACTH | \$48.48 |
| I | .2720 | 2-7/8" | 4-1/8" | D/ACTI | \$48.48 |
| J | .2770 | 2-7/8" | 4-1/8" | D/ACTJ | \$49.58 |
| K | .2810 | 2-15/16" | 4-1/4" | D/ACTK | \$49.58 |
| L | .2900 | 2-15/16" | 4-1/4" | D/ACTL | \$49.58 |
| M | .2950 | 3-1/16" | 4-3/8" | D/ACTM | \$52.41 |

| D/ACT Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| N | .3020 | 3-1/16" | 4-3/8" | D/ACTN | \$52.41 |
| O | .3160 | 3-3/16" | 4-1/2" | D/ACTO | \$52.41 |
| P | .3230 | 3-5/16" | 4-5/8" | D/ACTP | \$55.81 |
| Q | .3320 | 3-7/16" | 4-3/4" | D/ACTQ | \$55.81 |
| R | .3390 | 3-7/16" | 4-3/4" | D/ACTR | \$55.81 |
| S | .3480 | 3-1/2" | 4-7/8" | D/ACTS | \$59.26 |
| T | .3580 | 3-1/2" | 4-7/8" | D/ACTT | \$59.26 |
| U | .3680 | 3-5/8" | 5" | D/ACTU | \$59.26 |
| V | .3770 | 3-5/8" | 5" | D/ACTV | \$60.45 |
| W | .3860 | 3-3/4" | 5-1/8" | D/ACTW | \$65.92 |
| X | .3970 | 3-3/4" | 5-1/8" | D/ACTX | \$65.92 |
| Y | .4040 | 3-7/8" | 5-1/4" | D/ACTY | \$65.92 |
| Z | .4130 | 3-7/8" | 5-1/4" | D/ACTZ | \$72.99 |

HSS REDUCED SHANK DRILLS

DWDRSD Series - High Speed Steel Economy 118° Point

D/ARSD Series - High Speed Steel Premium Quality 118° Point

KFDRSD Series - Black and Gold 135° Split Point

D/ACO Series - Cobalt Premium Quality 135° Split Point

1 / 4 " S H A N K

| | | | | DWDRSD Series | | D/ARSD Series | |
|--------|-------------|--------------|----------|---------------|------------|---------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 17/64" | .2656 | 2-1/4" | 3-1/2" | DWDRSD17/64 | \$5.85 | D/ARSD17/64 | \$6.50 |
| 9/32" | .2813 | 2-1/4" | 3-9/16" | DWDRSD9/32 | \$5.85 | D/ARSD9/32 | \$6.50 |
| 19/64" | .2969 | 2-3/8" | 3-11/16" | DWDRSD19/64 | \$6.77 | D/ARSD19/64 | \$7.52 |
| 5/16" | .3125 | 2-1/2" | 3-13/16" | DWDRSD5/16 | \$6.77 | D/ARSD5/16 | \$7.52 |
| 21/64" | .3281 | 2-9/16" | 3-13/16" | DWDRSD21/64 | \$7.81 | D/ARSD21/64 | \$8.67 |
| 11/32" | .3438 | 2-5/8" | 4" | DWDRSD11/32 | \$7.81 | D/ARSD11/32 | \$8.67 |
| 23/64" | .3594 | 2-3/4" | 4-1/8" | DWDRSD23/64 | \$8.70 | D/ARSD23/64 | \$9.70 |
| 3/8" | .3750 | 2-7/8" | 4-1/4" | DWDRSD3/8 | \$8.70 | D/ARSD3/8 | \$9.70 |
| 25/64" | .3906 | 3" | 4-5/16" | DWDRSD25/64 | \$10.12 | D/ARSD25/64 | \$11.24 |
| 13/32" | .4063 | 3-1/8" | 4-7/16" | DWDRSD13/32 | \$10.12 | D/ARSD13/32 | \$11.24 |
| 27/64" | .4219 | 3-1/8" | 4-9/16" | DWDRSD27/64 | \$11.32 | D/ARSD27/64 | \$12.60 |
| 7/16" | .4375 | 3-3/8" | 4-11/16" | DWDRSD7/16 | \$11.32 | D/ARSD7/16 | \$12.60 |
| 29/64" | .4531 | 3-3/8" | 4-3/4" | DWDRSD29/64 | \$12.90 | D/ARSD29/64 | \$14.33 |
| 15/32" | .4688 | 3-1/2" | 4-7/8" | DWDRSD15/32 | \$12.90 | D/ARSD15/32 | \$14.33 |
| 31/64" | .4844 | 3-1/2" | 5" | DWDRSD31/64 | \$14.61 | D/ARSD31/64 | \$16.23 |
| 1/2" | .5000 | 3-5/8" | 5-1/16" | DWDRSD1/2 | \$14.61 | D/ARSD1/2 | \$16.23 |



3 / 8 " S H A N K

3 " F L U T E L E N G T H 6 " O . A . L .



| DWDRSD Series | | D/ARSD Series | | KFDRSD Series | | D/ACO Series | | |
|---------------|-----------------|---------------|-----------------|---------------|-----------------|--------------|----------------|------------|
| Size | Part Number | List Price | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 25/64" | DWDRSD3/8X25/64 | \$9.79 | D/ARSD3/8X25/64 | \$10.92 | KFDRSD3/8X25/64 | \$9.80 | D/ACO3/8X25/64 | \$20.82 |
| 13/32" | DWDRSD3/8X13/32 | \$9.79 | D/ARSD3/8X13/32 | \$10.92 | KFDRSD3/8X13/32 | \$10.02 | D/ACO3/8X13/32 | \$21.98 |
| 27/64" | DWDRSD3/8X27/64 | \$10.50 | D/ARSD3/8X27/64 | \$12.69 | KFDRSD3/8X27/64 | \$10.94 | D/ACO3/8X27/64 | \$23.27 |
| 7/16" | DWDRSD3/8X7/16 | \$10.50 | D/ARSD3/8X7/16 | \$12.69 | KFDRSD3/8X7/16 | \$11.63 | D/ACO3/8X7/16 | \$24.02 |
| 29/64" | DWDRSD3/8X29/64 | \$12.44 | D/ARSD3/8X29/64 | \$14.08 | KFDRSD3/8X29/64 | \$13.11 | D/ACO3/8X29/64 | \$28.64 |
| 15/32" | DWDRSD3/8X15/32 | \$12.44 | D/ARSD3/8X15/32 | \$14.08 | KFDRSD3/8X15/32 | \$13.39 | D/ACO3/8X15/32 | \$28.94 |
| 31/64" | DWDRSD3/8X31/64 | \$12.44 | D/ARSD3/8X31/64 | \$15.93 | KFDRSD3/8X31/64 | \$13.95 | D/ACO3/8X31/64 | \$29.75 |
| 1/2" | DWDRSD3/8X1/2 | \$12.44 | D/ARSD3/8X1/2 | \$15.36 | KFDRSD3/8X1/2 | \$14.31 | D/ACO3/8X1/2 | \$30.25 |
| 33/64" | DWDRSD3/8X33/64 | \$22.83 | D/ARSD3/8X33/64 | \$35.12 | KFDRSD3/8X33/64 | \$27.64 | D/ACO3/8X33/64 | \$72.95 |
| 17/32" | DWDRSD3/8X17/32 | \$22.83 | D/ARSD3/8X17/32 | \$35.12 | KFDRSD3/8X17/32 | \$27.64 | D/ACO3/8X17/32 | \$70.35 |
| 35/64" | DWDRSD3/8X35/64 | \$24.26 | D/ARSD3/8X35/64 | \$37.35 | KFDRSD3/8X35/64 | \$29.47 | D/ACO3/8X35/64 | \$72.95 |
| 9/16" | DWDRSD3/8X9/16 | \$24.26 | D/ARSD3/8X9/16 | \$37.35 | KFDRSD3/8X9/16 | \$29.47 | D/ACO3/8X9/16 | \$70.35 |
| 37/64" | DWDRSD3/8X37/64 | \$26.07 | D/ARSD3/8X37/64 | \$40.11 | KFDRSD3/8X37/64 | \$31.48 | D/ACO3/8X37/64 | \$82.14 |
| 19/32" | DWDRSD3/8X19/32 | \$26.07 | D/ARSD3/8X19/32 | \$40.11 | KFDRSD3/8X19/32 | \$31.48 | D/ACO3/8X19/32 | \$79.21 |
| 39/64" | DWDRSD3/8X39/64 | \$27.31 | D/ARSD3/8X39/64 | \$42.04 | KFDRSD3/8X39/64 | \$33.22 | D/ACO3/8X39/64 | \$82.14 |
| 5/8" | DWDRSD3/8X5/8 | \$27.31 | D/ARSD3/8X5/8 | \$42.04 | KFDRSD3/8X5/8 | \$33.22 | D/ACO3/8X5/8 | \$79.21 |
| 41/64" | DWDRSD3/8X41/64 | \$29.13 | D/ARSD3/8X41/64 | \$44.85 | KFDRSD3/8X41/64 | \$35.30 | D/ACO3/8X41/64 | \$90.18 |
| 21/32" | DWDRSD3/8X21/32 | \$29.13 | D/ARSD3/8X21/32 | \$44.85 | KFDRSD3/8X21/32 | \$35.30 | D/ACO3/8X21/32 | \$87.00 |
| 43/64" | DWDRSD3/8X43/64 | \$30.25 | D/ARSD3/8X43/64 | \$46.61 | KFDRSD3/8X43/64 | \$36.97 | D/ACO3/8X43/64 | \$90.18 |
| 11/16" | DWDRSD3/8X11/16 | \$30.25 | D/ARSD3/8X11/16 | \$46.61 | KFDRSD3/8X11/16 | \$36.97 | D/ACO3/8X11/16 | \$87.00 |
| 45/64" | DWDRSD3/8X45/64 | \$30.64 | D/ARSD3/8X45/64 | \$47.22 | KFDRSD3/8X45/64 | \$38.99 | D/ACO3/8X45/64 | \$100.40 |
| 23/32" | DWDRSD3/8X23/32 | \$30.64 | D/ARSD3/8X23/32 | \$47.22 | KFDRSD3/8X23/32 | \$38.99 | D/ACO3/8X23/32 | \$96.82 |
| 47/64" | DWDRSD3/8X47/64 | \$33.39 | D/ARSD3/8X47/64 | \$51.42 | KFDRSD3/8X47/64 | \$40.55 | D/ACO3/8X47/64 | \$100.40 |
| 3/4" | DWDRSD3/8X3/4 | \$33.39 | D/ARSD3/8X3/4 | \$51.42 | KFDRSD3/8X3/4 | \$40.55 | D/ACO3/8X3/4 | \$96.82 |

HSS REDUCED SHANK DRILLS

1 / 2 " S H A N K

| | | | | DWDRSD Series | | D/ARSD Series | |
|----------|-------------|--------------|--------|---------------|------------|---------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 33/64" | .5156 | 3" | 6" | DWDRSD33/64 | \$10.48 | D/ARSD33/64 | \$24.73 |
| 17/32" | .5313 | 3" | 6" | DWDRSD17/32 | \$10.48 | D/ARSD17/32 | \$24.73 |
| 35/64" | .5469 | 3" | 6" | DWDRSD35/64 | \$11.14 | D/ARSD35/64 | \$26.38 |
| 9/16" | .5625 | 3" | 6" | DWDRSD9/16 | \$11.14 | D/ARSD9/16 | \$26.11 |
| 37/64" | .5781 | 3" | 6" | DWDRSD37/64 | \$11.93 | D/ARSD37/64 | \$28.17 |
| 19/32" | .5938 | 3" | 6" | DWDRSD19/32 | \$11.93 | D/ARSD19/32 | \$28.17 |
| 39/64" | .6094 | 3" | 6" | DWDRSD39/64 | \$12.52 | D/ARSD39/64 | \$29.40 |
| 5/8" | .6250 | 3" | 6" | DWDRSD5/8 | \$12.23 | D/ARSD5/8 | \$29.40 |
| 41/64" | .6406 | 3" | 6" | DWDRSD41/64 | \$13.63 | D/ARSD41/64 | \$31.08 |
| 21/32" | .6563 | 3" | 6" | DWDRSD21/32 | \$13.63 | D/ARSD21/32 | \$31.08 |
| 43/64" | .6719 | 3" | 6" | DWDRSD43/64 | \$14.11 | D/ARSD43/64 | \$32.53 |
| 11/16" | .6875 | 3" | 6" | DWDRSD11/16 | \$14.11 | D/ARSD11/16 | \$32.53 |
| 45/64" | .7031 | 3" | 6" | DWDRSD45/64 | \$14.33 | D/ARSD45/64 | \$34.04 |
| 23/32" | .7188 | 3" | 6" | DWDRSD23/32 | \$14.33 | D/ARSD23/32 | \$34.04 |
| 47/64" | .7344 | 3" | 6" | DWDRSD47/64 | \$15.61 | D/ARSD47/64 | \$35.59 |
| 3/4" | .7500 | 3" | 6" | DWDRSD3/4 | \$15.61 | D/ARSD3/4 | \$35.59 |
| 49/64" | .7656 | 3" | 6" | DWDRSD49/64 | \$17.13 | D/ARSD49/64 | \$37.36 |
| 25/32" | .7813 | 3" | 6" | DWDRSD25/32 | \$17.13 | D/ARSD25/32 | \$37.36 |
| 51/64" | .7969 | 3" | 6" | DWDRSD51/64 | \$18.00 | D/ARSD51/64 | \$39.98 |
| 13/16" | .8125 | 3" | 6" | DWDRSD13/16 | \$18.00 | D/ARSD13/16 | \$39.98 |
| 53/64" | .8281 | 3" | 6" | DWDRSD53/64 | \$18.62 | D/ARSD53/64 | \$41.88 |
| 27/32" | .8438 | 3" | 6" | DWDRSD27/32 | \$18.62 | D/ARSD27/32 | \$41.88 |
| 55/64" | .8594 | 3" | 6" | DWDRSD55/64 | \$19.31 | D/ARSD55/64 | \$43.07 |
| 7/8" | .8750 | 3" | 6" | DWDRSD7/8 | \$19.31 | D/ARSD7/8 | \$43.07 |
| 57/64" | .8906 | 3" | 6" | DWDRSD57/64 | \$20.19 | D/ARSD57/64 | \$45.25 |
| 29/32" | .9063 | 3" | 6" | DWDRSD29/32 | \$20.19 | D/ARSD29/32 | \$45.25 |
| 59/64" | .9219 | 3" | 6" | DWDRSD59/64 | \$21.56 | D/ARSD59/64 | \$48.85 |
| 15/16" | .9375 | 3" | 6" | DWDRSD15/16 | \$21.56 | D/ARSD15/16 | \$48.85 |
| 61/64" | .9531 | 3" | 6" | DWDRSD61/64 | \$22.79 | D/ARSD61/64 | \$52.93 |
| 31/32" | .9688 | 3" | 6" | DWDRSD31/32 | \$22.79 | D/ARSD31/32 | \$52.93 |
| 63/64" | .9844 | 3" | 6" | DWDRSD63/64 | \$25.40 | D/ARSD63/64 | \$55.80 |
| 1" | 1.0000 | 3" | 6" | DWDRSD1 | \$25.40 | D/ARSD1 | \$55.80 |
| 1-1/64" | 1.0156 | 3" | 6" | DWDRSD1-1/64 | \$36.43 | D/ARSD1-1/64 | \$82.04 |
| 1-1/32" | 1.0313 | 3" | 6" | DWDRSD1-1/32 | \$37.26 | D/ARSD1-1/32 | \$82.04 |
| 1-3/64" | 1.0469 | 3" | 6" | DWDRSD1-3/64 | \$37.26 | D/ARSD1-3/64 | \$82.04 |
| 1-1/16" | 1.0625 | 3" | 6" | DWDRSD1-1/16 | \$37.26 | D/ARSD1-1/16 | \$82.04 |
| 1-5/64" | 1.0781 | 3" | 6" | DWDRSD1-5/64 | \$38.46 | D/ARSD1-5/64 | \$89.76 |
| 1-3/32" | 1.0938 | 3" | 6" | DWDRSD1-3/32 | \$39.71 | D/ARSD1-3/32 | \$89.76 |
| 1-7/64" | 1.1094 | 3" | 6" | DWDRSD1-7/64 | \$41.49 | D/ARSD1-7/64 | \$89.76 |
| 1-1/8" | 1.1250 | 3" | 6" | DWDRSD1-1/8 | \$42.37 | D/ARSD1-1/8 | \$89.76 |
| 1-9/64" | 1.1406 | 3" | 6" | DWDRSD1-9/64 | \$42.37 | D/ARSD1-9/64 | \$95.54 |
| 1-5/32" | 1.1563 | 3" | 6" | DWDRSD1-5/32 | \$42.37 | D/ARSD1-5/32 | \$95.54 |
| 1-11/64" | 1.1719 | 3" | 6" | DWDRSD1-11/64 | \$48.18 | D/ARSD1-11/64 | \$95.54 |
| 1-3/16" | 1.1875 | 3" | 6" | DWDRSD1-3/16 | \$46.52 | D/ARSD1-3/16 | \$95.54 |
| 1-13/64" | 1.2031 | 3" | 6" | DWDRSD1-13/64 | \$49.00 | D/ARSD1-13/64 | \$105.34 |
| 1-7/32" | 1.2188 | 3" | 6" | DWDRSD1-7/32 | \$50.05 | D/ARSD1-7/32 | \$105.34 |
| 1-15/64" | 1.2344 | 3" | 6" | DWDRSD1-15/64 | \$50.05 | D/ARSD1-15/64 | \$105.34 |
| 1-1/4" | 1.2500 | 3" | 6" | DWDRSD1-1/4 | \$50.05 | D/ARSD1-1/4 | \$105.34 |
| 1-17/64" | 1.2656 | 3" | 6" | DWDRSD1-17/64 | \$57.92 | D/ARSD1-17/64 | \$128.89 |
| 1-9/32" | 1.2813 | 3" | 6" | DWDRSD1-9/32 | \$57.92 | D/ARSD1-9/32 | \$115.03 |
| 1-19/64" | 1.2969 | 3" | 6" | DWDRSD1-19/64 | \$57.92 | D/ARSD1-19/64 | \$130.13 |
| 1-5/16" | 1.3125 | 3" | 6" | DWDRSD1-5/16 | \$61.38 | D/ARSD1-5/16 | \$115.03 |
| 1-21/64" | 1.3281 | 3" | 6" | DWDRSD1-21/64 | \$66.56 | D/ARSD1-21/64 | \$133.87 |
| 1-11/32" | 1.3438 | 3" | 6" | DWDRSD1-11/32 | \$66.56 | D/ARSD1-11/32 | \$133.87 |
| 1-23/64" | 1.3594 | 3" | 6" | DWDRSD1-23/64 | \$66.56 | D/ARSD1-23/64 | \$134.73 |
| 1-3/8" | 1.3750 | 3" | 6" | DWDRSD1-3/8 | \$70.56 | D/ARSD1-3/8 | \$126.89 |
| 1-25/64" | 1.3906 | 3" | 6" | DWDRSD1-25/64 | \$73.23 | D/ARSD1-25/64 | \$146.23 |
| 1-13/32" | 1.4063 | 3" | 6" | DWDRSD1-13/32 | \$73.23 | D/ARSD1-13/32 | \$146.23 |
| 1-27/64" | 1.4219 | 3" | 6" | DWDRSD1-27/64 | \$73.23 | D/ARSD1-27/64 | \$146.23 |
| 1-7/16" | 1.4375 | 3" | 6" | DWDRSD1-7/16 | \$77.61 | D/ARSD1-7/16 | \$146.23 |
| 1-29/64" | 1.4531 | 3" | 6" | DWDRSD1-29/64 | \$80.52 | D/ARSD1-29/64 | \$157.56 |
| 1-15/32" | 1.4688 | 3" | 6" | DWDRSD1-15/32 | \$80.52 | D/ARSD1-15/32 | \$157.56 |
| 1-31/64" | 1.4844 | 3" | 6" | DWDRSD1-31/64 | \$85.36 | D/ARSD1-31/64 | \$157.56 |
| 1-1/2" | 1.5000 | 3" | 6" | DWDRSD1-1/2 | \$85.36 | D/ARSD1-1/2 | \$152.24 |



METRIC REDUCED SHK DRILLS

| DWDRSD Series | | | | | | D/AMMCO Series | |
|---------------|--------------|--------|--------|--------------|------------|----------------|------------|
| Dec. Size | Flute Equiv. | Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 12.5 | .4921 | 3" | 6" | DWDRSD12.5MM | \$20.36 | - | - |
| 13.0 | .5118 | 3" | 6" | DWDRSD13.0MM | \$20.36 | - | - |
| 13.5 | .5315 | 3" | 6" | DWDRSD13.5MM | \$22.87 | D/AMMCO13.50 | \$77.91 |
| 14.0 | .5512 | 3" | 6" | DWDRSD14.0MM | \$26.20 | D/AMMCO14.00 | \$74.20 |
| 14.5 | .5709 | 3" | 6" | DWDRSD14.5MM | \$26.20 | D/AMMCO14.50 | \$77.91 |
| 15.0 | .5906 | 3" | 6" | DWDRSD15.0MM | \$28.08 | D/AMMCO15.00 | \$74.20 |
| 15.5 | .6102 | 3" | 6" | DWDRSD15.5MM | \$29.35 | D/AMMCO15.50 | \$77.91 |
| 16.0 | .6299 | 3" | 6" | DWDRSD16.0MM | \$31.09 | D/AMMCO16.00 | \$74.20 |
| 16.5 | .6496 | 3" | 6" | DWDRSD16.5MM | \$31.24 | D/AMMCO16.50 | \$77.91 |
| 17.0 | .6693 | 3" | 6" | DWDRSD17.0MM | \$32.51 | D/AMMCO17.00 | \$74.20 |
| 17.5 | .6890 | 3" | 6" | DWDRSD17.5MM | \$32.51 | D/AMMCO17.50 | \$77.91 |
| 18.0 | .7087 | 3" | 6" | DWDRSD18.0MM | \$34.25 | D/AMMCO18.00 | \$74.20 |
| 18.5 | .7283 | 3" | 6" | DWDRSD18.5MM | \$35.82 | D/AMMCO18.50 | \$77.91 |
| 19.0 | .7480 | 3" | 6" | DWDRSD19.0MM | \$35.82 | D/AMMCO19.00 | \$84.80 |
| 19.5 | .7677 | 3" | 6" | DWDRSD19.5MM | \$37.40 | D/AMMCO19.50 | \$89.04 |
| 20.0 | .7874 | 3" | 6" | DWDRSD20.0MM | \$37.72 | D/AMMCO20.00 | \$84.80 |
| 20.5 | .8071 | 3" | 6" | DWDRSD20.5MM | \$42.26 | D/AMMCO20.50 | \$93.28 |
| 21.0 | .8268 | 3" | 6" | DWDRSD21.0MM | \$42.26 | D/AMMCO21.00 | \$90.10 |
| 21.5 | .8465 | 3" | 6" | DWDRSD21.5MM | \$43.83 | D/AMMCO21.50 | \$100.17 |
| 22.0 | .8661 | 3" | 6" | DWDRSD22.0MM | \$43.83 | D/AMMCO22.00 | \$95.40 |
| 22.5 | .8858 | 3" | 6" | DWDRSD22.5MM | \$45.81 | D/AMMCO22.50 | \$111.30 |
| 23.0 | .9055 | 3" | 6" | DWDRSD23.0MM | \$45.81 | D/AMMCO23.00 | \$106.00 |
| 23.5 | .9252 | 3" | 6" | DWDRSD23.5MM | \$51.71 | D/AMMCO23.50 | \$121.90 |
| 24.0 | .9445 | 3" | 6" | DWDRSD24.0MM | \$51.71 | D/AMMCO24.00 | \$116.60 |
| 24.5 | .9646 | 3" | 6" | DWDRSD24.5MM | \$57.64 | D/AMMCO24.50 | \$132.50 |
| 25.0 | .9843 | 3" | 6" | DWDRSD25.0MM | \$57.64 | D/AMMCO25.00 | \$127.20 |
| 25.5 | 1.0039 | 3" | 6" | DWDRSD25.5MM | \$88.57 | | |
| 26.0 | 1.0236 | 3" | 6" | DWDRSD26.0MM | \$88.57 | | |
| 26.5 | 1.0433 | 3" | 6" | DWDRSD26.5MM | \$88.57 | | |
| 27.0 | 1.0630 | 3" | 6" | DWDRSD27.0MM | \$88.57 | | |
| 27.5 | 1.0827 | 3" | 6" | DWDRSD27.5MM | \$98.65 | | |
| 28.0 | 1.1024 | 3" | 6" | DWDRSD28.0MM | \$98.65 | | |
| 28.5 | 1.1220 | 3" | 6" | DWDRSD28.5MM | \$100.73 | | |
| 29.0 | 1.1417 | 3" | 6" | DWDRSD29.0MM | \$100.73 | | |
| 29.5 | 1.1614 | 3" | 6" | DWDRSD29.5MM | \$110.61 | | |
| 30.0 | 1.1811 | 3" | 6" | DWDRSD30.0MM | \$110.61 | | |
| 31.0 | 1.2205 | 3" | 6" | DWDRSD31.0MM | \$119.00 | | |
| 32.0 | 1.2598 | 3" | 6" | DWDRSD32.0MM | \$137.70 | | |
| 33.0 | 1.2992 | 3" | 6" | DWDRSD33.0MM | \$145.93 | | |
| 34.0 | 1.3386 | 3" | 6" | DWDRSD34.0MM | \$158.27 | | |
| 35.0 | 1.3780 | 3" | 6" | DWDRSD35.0MM | \$167.75 | | |
| 36.0 | 1.4173 | 3" | 6" | DWDRSD36.0MM | \$174.11 | | |
| 37.0 | 1.4567 | 3" | 6" | DWDRSD37.0MM | \$191.44 | | |

1 / 2 " S H A N K M E T R I C



3 / 4 " S H A N K

| DWDRSD Series | | | | | | DWDRSD Series | | | | | |
|---------------|--------------|--------|--------|------------------|------------|---------------|--------------|--------|--------|------------------|------------|
| Dec. Size | Flute Equiv. | Length | O.A.L. | Part Number | List Price | Dec. Size | Flute Equiv. | Length | O.A.L. | Part Number | List Price |
| 1" | 1.0000 | 3" | 6" | DWDRSD34X1 | \$72.56 | 1-1/2" | 1.5000 | 3" | 6" | DWDRSD34X1-1/2 | \$191.19 |
| 1-1/32" | 1.0313 | 3" | 6" | DWDRSD34X1-1/32 | \$85.05 | 1-17/32" | 1.5313 | 3" | 6" | DWDRSD34X1-17/32 | \$215.78 |
| 1-1/16" | 1.0625 | 3" | 6" | DWDRSD34X1-1/16 | \$85.05 | 1-9/16" | 1.5625 | 3" | 6" | DWDRSD34X1-9/16 | \$215.78 |
| 1-3/32" | 1.0938 | 3" | 6" | DWDRSD34X1-3/32 | \$94.45 | 1-19/32" | 1.5938 | 3" | 6" | DWDRSD34X1-19/32 | \$239.13 |
| 1-1/8" | 1.1250 | 3" | 6" | DWDRSD34X1-1/8 | \$94.45 | 1-5/8" | 1.6250 | 3" | 6" | DWDRSD34X1-5/8 | \$239.13 |
| 1-5/32" | 1.1563 | 3" | 6" | DWDRSD34X1-5/32 | \$104.26 | 1-21/32" | 1.6563 | 3" | 6" | DWDRSD34X1-21/32 | \$276.66 |
| 1-3/16" | 1.1875 | 3" | 6" | DWDRSD34X1-3/16 | \$104.26 | 1-11/16" | 1.6875 | 3" | 6" | DWDRSD34X1-11/16 | \$276.66 |
| 1-7/32" | 1.2188 | 3" | 6" | DWDRSD34X1-7/32 | \$107.17 | 1-23/32" | 1.7188 | 3" | 6" | DWDRSD34X1-23/32 | \$287.09 |
| 1-1/4" | 1.2500 | 3" | 6" | DWDRSD34X1-1/4 | \$107.17 | 1-3/4" | 1.7500 | 3" | 6" | DWDRSD34X1-3/4 | \$287.09 |
| 1-9/32" | 1.2813 | 3" | 6" | DWDRSD34X1-9/32 | \$133.20 | 1-25/32" | 1.7813 | 3" | 6" | DWDRSD34X1-25/32 | \$314.81 |
| 1-5/16" | 1.3125 | 3" | 6" | DWDRSD34X1-5/16 | \$133.20 | 1-13/16" | 1.8125 | 3" | 6" | DWDRSD34X1-13/16 | \$314.81 |
| 1-11/32" | 1.3438 | 3" | 6" | DWDRSD34X1-11/32 | \$165.95 | 1-27/32" | 1.8438 | 3" | 6" | DWDRSD34X1-27/32 | \$324.01 |
| 1-23/64" | 1.3594 | 3" | 6" | DWDRSD34X1-23/64 | \$165.95 | 1-7/8" | 1.8750 | 3" | 6" | DWDRSD34X1-7/8 | \$324.01 |
| 1-3/8" | 1.3750 | 3" | 6" | DWDRSD34X1-3/8 | \$165.95 | 1-29/32" | 1.9063 | 3" | 6" | DWDRSD34X1-29/32 | \$343.57 |
| 1-13/32" | 1.4063 | 3" | 6" | DWDRSD34X1-13/32 | \$174.50 | 1-15/16" | 1.9375 | 3" | 6" | DWDRSD34X1-15/16 | \$343.57 |
| 1-7/16" | 1.4375 | 3" | 6" | DWDRSD34X1-7/16 | \$174.50 | 1-31/32" | 1.9688 | 3" | 6" | DWDRSD34X1-31/32 | \$361.08 |
| 1-15/32" | 1.4688 | 3" | 6" | DWDRSD34X1-15/32 | \$191.19 | 2" | 2.0000 | 3" | 6" | DWDRSD34X2 | \$361.08 |

*Over 2" POA

HSS 3-FLAT REDUCED SHANK DRILLS

D/A3F Series - HSS Premium Quality 118° Point with 3-Flat Shank

KFD3F Series - HSS Black/Gold Contractor Grade 135° Split Point with 3-Flat Shank

KFDRSD Series - HSS Black/Gold Premium Quality 135° Split Point with 3-Flat Shank

| | | | | D/A3F Series | | KFD3F Series | | KFDRSD Series | |
|----------|-------------|--------------|--------|--------------|------------|--------------|------------|---------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 33/64" | .5156 | 3" | 6" | D/A3F33/64 | \$25.77 | KFD3F33/64 | \$15.94 | KFDRSD33/64 | \$19.93 |
| 17/32" | .5313 | 3" | 6" | D/A3F17/32 | \$25.77 | KFD3F17/32 | \$15.94 | KFDRSD17/32 | \$19.93 |
| 35/64" | .5469 | 3" | 6" | D/A3F35/64 | \$27.36 | KFD3F35/64 | \$17.00 | KFDRSD35/64 | \$21.25 |
| 9/16" | .5625 | 3" | 6" | D/A3F9/16 | \$27.36 | KFD3F9/16 | \$17.00 | KFDRSD9/16 | \$21.25 |
| 37/64" | .5781 | 3" | 6" | D/A3F37/64 | \$29.47 | KFD3F37/64 | \$18.16 | KFDRSD37/64 | \$22.69 |
| 19/32" | .5938 | 3" | 6" | D/A3F19/32 | \$29.47 | KFD3F19/32 | \$18.16 | KFDRSD19/32 | \$22.69 |
| 39/64" | .6094 | 3" | 6" | D/A3F39/64 | \$30.26 | KFD3F39/64 | \$19.16 | KFDRSD39/64 | \$23.96 |
| 5/8" | .6250 | 3" | 6" | D/A3F5/8 | \$30.26 | KFD3F5/8 | \$19.16 | KFDRSD5/8 | \$23.96 |
| 41/64" | .6406 | 3" | 6" | D/A3F41/64 | \$31.86 | KFD3F41/64 | \$20.36 | KFDRSD41/64 | \$25.46 |
| 21/32" | .6563 | 3" | 6" | D/A3F21/32 | \$31.86 | KFD3F21/32 | \$20.36 | KFDRSD21/32 | \$25.46 |
| 43/64" | .6719 | 3" | 6" | D/A3F43/64 | \$33.29 | KFD3F43/64 | \$21.34 | KFDRSD43/64 | \$26.66 |
| 11/16" | .6875 | 3" | 6" | D/A3F11/16 | \$33.29 | KFD3F11/16 | \$21.34 | KFDRSD11/16 | \$26.66 |
| 45/64" | .7031 | 3" | 6" | D/A3F45/64 | \$34.69 | KFD3F45/64 | \$22.49 | KFDRSD45/64 | \$28.11 |
| 23/32" | .7188 | 3" | 6" | D/A3F23/32 | \$34.69 | KFD3F23/32 | \$22.49 | KFDRSD23/32 | \$28.11 |
| 47/64" | .7344 | 3" | 6" | D/A3F47/64 | \$36.19 | KFD3F47/64 | \$23.39 | KFDRSD47/64 | \$29.23 |
| 3/4" | .7500 | 3" | 6" | D/A3F3/4 | \$36.19 | KFD3F3/4 | \$23.39 | KFDRSD3/4 | \$29.23 |
| 49/64" | .7656 | 3" | 6" | D/A3F49/64 | \$38.92 | KFD3F49/64 | \$24.74 | KFDRSD49/64 | \$30.92 |
| 25/32" | .7813 | 3" | 6" | D/A3F25/32 | \$38.92 | KFD3F25/32 | \$24.74 | KFDRSD25/32 | \$30.92 |
| 51/64" | .7969 | 3" | 6" | D/A3F51/64 | \$41.41 | KFD3F51/64 | \$26.00 | KFDRSD51/64 | \$32.51 |
| 13/16" | .8125 | 3" | 6" | D/A3F13/16 | \$41.41 | KFD3F13/16 | \$26.00 | KFDRSD13/16 | \$32.51 |
| 53/64" | .8281 | 3" | 6" | D/A3F53/64 | \$43.24 | KFD3F53/64 | \$26.69 | KFDRSD53/64 | \$33.35 |
| 27/32" | .8438 | 3" | 6" | D/A3F27/32 | \$43.24 | KFD3F27/32 | \$26.69 | KFDRSD27/32 | \$33.35 |
| 55/64" | .8594 | 3" | 6" | D/A3F55/64 | \$44.41 | KFD3F55/64 | \$27.91 | KFDRSD55/64 | \$34.88 |
| 7/8" | .8750 | 3" | 6" | D/A3F7/8 | \$44.41 | KFD3F7/8 | \$27.91 | KFDRSD7/8 | \$34.88 |
| 57/64" | .8906 | 3" | 6" | D/A3F57/64 | \$46.48 | KFD3F57/64 | \$29.18 | KFDRSD57/64 | \$36.48 |
| 29/32" | .9063 | 3" | 6" | D/A3F29/32 | \$46.48 | KFD3F29/32 | \$29.18 | KFDRSD29/32 | \$36.48 |
| 59/64" | .9219 | 3" | 6" | D/A3F59/64 | \$49.93 | KFD3F59/64 | \$31.28 | KFDRSD59/64 | \$39.10 |
| 15/16" | .9375 | 3" | 6" | D/A3F15/16 | \$49.93 | KFD3F15/16 | \$31.28 | KFDRSD15/16 | \$39.10 |
| 61/64" | .9531 | 3" | 6" | D/A3F61/64 | \$53.86 | KFD3F61/64 | \$33.15 | KFDRSD61/64 | \$41.44 |
| 31/32" | .9688 | 3" | 6" | D/A3F31/32 | \$53.86 | KFD3F31/32 | \$33.15 | KFDRSD31/32 | \$41.44 |
| 63/64" | .9844 | 3" | 6" | D/A3F63/64 | \$56.61 | KFD3F63/64 | \$36.32 | KFDRSD63/64 | \$45.39 |
| 1" | 1.0000 | 3" | 6" | D/A3F1 | \$56.61 | KFD3F1INCH | \$36.42 | KFDRSD1 | \$45.53 |
| 1-1/64" | 1.0156 | 3" | 6" | - | - | KFD3F1-1/64 | \$45.24 | - | - |
| 1-1/32" | 1.0313 | 3" | 6" | D/A3F1-1/32 | \$82.78 | KFD3F1-1/32 | \$45.24 | KFDRSD1-1/32 | - |
| 1-3/64" | 1.0469 | 3" | 6" | - | - | KFD3F1-3/64 | \$45.24 | - | - |
| 1-1/16" | 1.0625 | 3" | 6" | D/A3F1-1/16 | \$82.78 | KFD3F1-1/16 | \$45.24 | KFDRSD1-1/16 | \$56.55 |
| 1-5/64" | 1.0781 | 3" | 6" | - | - | KFD3F1-5/64 | \$45.24 | - | - |
| 1-3/32" | 1.0938 | 3" | 6" | D/A3F1-3/32 | \$90.18 | KFD3F1-3/32 | \$45.24 | KFDRSD1-3/32 | - |
| 1-7/64" | 1.1094 | 3" | 6" | - | - | KFD3F1-7/64 | \$45.24 | - | - |
| 1-1/8" | 1.1250 | 3" | 6" | D/A3F1-1/8 | \$90.18 | KFD3F1-1/8 | \$45.24 | KFDRSD1-1/8 | \$56.55 |
| 1-9/64" | 1.1406 | 3" | 6" | - | - | KFD3F1-9/64 | \$51.42 | - | - |
| 1-5/32" | 1.1563 | 3" | 6" | D/A3F1-5/32 | \$95.74 | KFD3F1-5/32 | \$51.42 | KFDRSD1-5/32 | - |
| 1-11/64" | 1.1719 | 3" | 6" | - | - | KFD3F1-11/64 | \$51.42 | - | - |
| 1-3/16" | 1.1875 | 3" | 6" | D/A3F1-3/16 | \$95.74 | KFD3F1-3/16 | \$51.42 | KFDRSD1-3/16 | \$64.29 |
| 1-13/64" | 1.2031 | 3" | 6" | - | - | KFD3F1-13/64 | \$53.87 | - | - |
| 1-7/32" | 1.2188 | 3" | 6" | D/A3F1-7/32 | \$106.13 | KFD3F1-7/32 | \$53.87 | KFDRSD1-7/32 | - |
| 1-15/64" | 1.2344 | 3" | 6" | - | - | KFD3F1-15/64 | \$53.87 | - | - |
| 1-1/4" | 1.2500 | 3" | 6" | D/A3F1-1/4 | \$106.13 | KFD3F1-1/4 | \$53.87 | KFDRSD1-1/4 | \$67.35 |
| 1-17/64" | 1.2656 | 3" | 6" | - | - | KFD3F1-17/64 | \$59.10 | - | - |
| 1-9/32" | 1.2813 | 3" | 6" | - | - | KFD3F1-9/32 | \$59.10 | - | - |
| 1-19/64" | 1.2969 | 3" | 6" | - | - | KFD3F1-19/64 | \$59.10 | - | - |
| 1-5/16" | 1.3125 | 3" | 6" | D/A3F1-5/16 | \$115.12 | KFD3F1-5/16 | \$59.10 | KFDRSD1-5/16 | \$73.87 |
| 1-21/64" | 1.3281 | 3" | 6" | - | - | KFD3F1-21/64 | \$60.17 | - | - |
| 1-11/32" | 1.3438 | 3" | 6" | - | - | KFD3F1-11/32 | \$60.17 | - | - |
| 1-23/64" | 1.3594 | 3" | 6" | - | - | KFD3F1-23/64 | \$60.17 | - | - |
| 1-3/8" | 1.3750 | 3" | 6" | D/A3F1-3/8 | \$127.00 | KFD3F1-3/8 | \$60.17 | KFDRSD1-3/8 | \$75.21 |
| 1-25/64" | 1.3906 | 3" | 6" | - | - | KFD3F1-25/64 | \$68.77 | - | - |
| 1-13/32" | 1.4063 | 3" | 6" | - | - | KFD3F1-13/32 | \$68.77 | - | - |
| 1-27/64" | 1.4219 | 3" | 6" | - | - | KFD3F1-27/64 | \$68.77 | - | - |
| 1-7/16" | 1.4375 | 3" | 6" | D/A3F1-7/16 | \$147.09 | KFD3F1-7/16 | \$68.77 | KFDRSD1-7/16 | \$85.96 |
| 1-29/64" | 1.4531 | 3" | 6" | - | - | KFD3F1-29/64 | \$70.56 | - | - |
| 1-15/32" | 1.4688 | 3" | 6" | - | - | KFD3F1-15/32 | \$70.56 | - | - |
| 1-31/64" | 1.4844 | 3" | 6" | - | - | KFD3F1-31/64 | \$70.56 | - | - |
| 1-1/2" | 1.5000 | 3" | 6" | D/A3F1-1/2 | \$152.94 | KFD3F1-1/2 | \$70.56 | KFDRSD1-1/2 | \$88.20 |

COBALT REDUCED SHANK DRILLS

DWDCO Series - Economy

D/ACO Series - Premium Quality

Made of heat resistant cobalt and ground to a heavy duty 135° split point. Common flute and overall length for minimal adjustment during tool changes. Precision ground for high degree of concentricity between shank and body diameter. Ideal for drilling in tough, high tensile strength materials.



1 / 2 " S H A N K

| Size | Dec. Equiv. | Flute Length | O.A.L. | DWDCO Series | | D/ACO Series | |
|---------|-------------|--------------|--------|--------------|------------|--------------|------------|
| | | | | Part Number | List Price | Part Number | List Price |
| 33/64" | .5156 | 3" | 6" | DWDCO33/64 | \$36.17 | D/ACO33/64 | \$52.11 |
| 17/32" | .5313 | 3" | 6" | DWDCO17/32 | \$35.16 | D/ACO17/32 | \$50.25 |
| 35/64" | .5469 | 3" | 6" | DWDCO35/64 | \$36.17 | D/ACO35/64 | \$52.11 |
| 9/16" | .5625 | 3" | 6" | DWDCO9/16 | \$33.14 | D/ACO9/16 | \$50.25 |
| 37/64" | .5781 | 3" | 6" | DWDCO37/64 | \$40.65 | D/ACO37/64 | \$58.67 |
| 19/32" | .5938 | 3" | 6" | DWDCO19/32 | \$39.01 | D/ACO19/32 | \$56.58 |
| 39/64" | .6094 | 3" | 6" | DWDCO39/64 | \$40.65 | D/ACO39/64 | \$58.67 |
| 5/8" | .6250 | 3" | 6" | DWDCO5/8 | \$37.27 | D/ACO5/8 | \$56.58 |
| 41/64" | .6406 | 3" | 6" | DWDCO41/64 | \$44.62 | D/ACO41/64 | \$64.42 |
| 21/32" | .6563 | 3" | 6" | DWDCO21/32 | \$41.26 | D/ACO21/32 | \$62.15 |
| 43/64" | .6719 | 3" | 6" | DWDCO43/64 | \$44.62 | D/ACO43/64 | \$64.42 |
| 11/16" | .6875 | 3" | 6" | DWDCO11/16 | \$40.89 | D/ACO11/16 | \$62.15 |
| 45/64" | .7031 | 3" | 6" | DWDCO45/64 | \$48.12 | D/ACO45/64 | \$71.72 |
| 23/32" | .7188 | 3" | 6" | DWDCO23/32 | \$45.86 | D/ACO23/32 | \$69.15 |
| 47/64" | .7344 | 3" | 6" | DWDCO47/64 | \$48.12 | D/ACO47/64 | \$71.72 |
| 3/4" | .7500 | 3" | 6" | DWDCO3/4 | \$47.00 | D/ACO3/4 | \$69.15 |
| 49/64" | .7656 | 3" | 6" | DWDCO49/64 | \$57.37 | D/ACO49/64 | \$80.53 |
| 25/32" | .7813 | 3" | 6" | DWDCO25/32 | \$53.03 | D/ACO25/32 | \$77.67 |
| 51/64" | .7969 | 3" | 6" | DWDCO51/64 | \$57.37 | D/ACO51/64 | \$80.53 |
| 13/16" | .8125 | 3" | 6" | DWDCO13/16 | \$52.51 | D/ACO13/16 | \$77.67 |
| 53/64" | .8281 | 3" | 6" | DWDCO53/64 | \$61.66 | D/ACO53/64 | \$80.53 |
| 27/32" | .8438 | 3" | 6" | DWDCO27/32 | \$57.05 | D/ACO27/32 | \$83.43 |
| 55/64" | .8594 | 3" | 6" | DWDCO55/64 | \$61.66 | D/ACO55/64 | \$94.65 |
| 7/8" | .8750 | 3" | 6" | DWDCO7/8 | \$57.73 | D/ACO7/8 | \$91.23 |
| 57/64" | .8906 | 3" | 6" | DWDCO57/64 | \$70.09 | D/ACO57/64 | \$105.79 |
| 29/32" | .9063 | 3" | 6" | DWDCO29/32 | \$65.02 | D/ACO29/32 | \$102.03 |
| 59/64" | .9219 | 3" | 6" | DWDCO59/64 | \$70.09 | D/ACO59/64 | \$105.79 |
| 15/16" | .9375 | 3" | 6" | DWDCO15/16 | \$64.33 | D/ACO15/16 | \$102.03 |
| 61/64" | .9531 | 3" | 6" | DWDCO61/64 | \$82.66 | D/ACO61/64 | \$123.41 |
| 31/32" | .9688 | 3" | 6" | DWDCO31/32 | \$76.54 | D/ACO31/32 | \$119.95 |
| 63/64" | .9844 | 3" | 6" | DWDCO63/64 | \$82.66 | D/ACO63/64 | \$123.41 |
| 1" | 1.0000 | 3" | 6" | DWDCO1INCH | \$75.77 | D/ACO1INCH | \$119.95 |
| 1-1/16" | 1.0625 | 3" | 6" | DWDCO1-1/16 | \$93.84 | D/ACO1-1/16 | \$152.16 |
| 1-1/8" | 1.1250 | 3" | 6" | DWDCO1-1/8 | \$106.73 | D/ACO1-1/8 | \$173.06 |
| 1-3/16" | 1.1875 | 3" | 6" | DWDCO1-3/16 | \$117.11 | D/ACO1-3/16 | \$189.81 |
| 1-1/4" | 1.2500 | 3" | 6" | DWDCO1-1/4 | \$129.69 | D/ACO1-1/4 | \$210.17 |
| 1-5/16" | 1.3125 | 3" | 6" | DWDCO1-5/16 | \$161.09 | D/ACO1-5/16 | \$260.79 |
| 1-3/8" | 1.3750 | 3" | 6" | DWDCO1-3/8 | \$185.15 | D/ACO1-3/8 | \$299.91 |
| 1-7/16" | 1.4375 | 3" | 6" | DWDCO1-7/16 | \$203.80 | D/ACO1-7/16 | \$329.91 |
| 1-1/2" | 1.5000 | 3" | 6" | DWDCO1-1/2 | \$235.80 | D/ACO1-1/2 | \$362.84 |

6" AIRCRAFT EXT. DRILLS

DWDA/C Series - HSS Economy

D/AA/C Series - HSS Premium Quality

Manufactured to National Aerospace Standard 907. 135° split point is self-centering and reduces thrust. Ideal for drilling in mild steels where extra length for reach is required. They have a black oxide surface treatment that is abrasion resistant, reduces chip welding and improves chip flow. Sizes smaller than #52 and 1/16" have the 118° standard point.



GLBCO Series - Cobalt

Manufactured to National Aerospace Standard 907. Made of heat resistant cobalt, the 135° split point is self-centering and reduces thrust. They are especially effective in drilling tough, high tensile strength materials like stainless steel, inconel and titanium.



F R A C T I O N A L S I Z E S

| | | | DWDA/C Series | | D/AA/C Series | | GLBCO Series | |
|--------|-------------|--------------|---------------|------------|---------------|------------|--------------|------------|
| Size | Dec. Equiv. | Flute Length | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| *3/64" | .0469 | 3/4" | DWDA/CX63/64 | \$5.98 | D/AA/CX63/64 | \$12.12 | - | - |
| 1/16" | .0625 | 7/8" | DWDA/CX61/16 | \$3.50 | D/AA/CX61/16 | \$5.61 | GLBCOX61/16 | \$5.96 |
| 5/64" | .0781 | 1" | DWDA/CX65/64 | \$3.50 | D/AA/CX65/64 | \$5.61 | GLBCOX65/64 | \$5.96 |
| 3/32" | .0938 | 1-1/4" | DWDA/CX63/32 | \$2.61 | D/AA/CX63/32 | \$4.16 | GLBCOX63/32 | \$5.96 |
| 7/64" | .1094 | 1-1/2" | DWDA/CX67/64 | \$2.61 | D/AA/CX67/64 | \$4.16 | GLBCOX67/64 | \$5.37 |
| 1/8" | .1250 | 1-5/8" | DWDA/CX61/8 | \$2.61 | D/AA/CX61/8 | \$4.03 | GLBCOX61/8 | \$5.06 |
| 9/64" | .1406 | 1-3/4" | DWDA/CX69/64 | \$3.19 | D/AA/CX69/64 | \$5.14 | GLBCOX69/64 | \$6.00 |
| 5/32" | .1563 | 2" | DWDA/CX65/32 | \$3.19 | D/AA/CX65/32 | \$5.14 | GLBCOX65/32 | \$6.00 |
| 11/64" | .1719 | 2-1/8" | DWDA/CX611/64 | \$3.76 | D/AA/CX611/64 | \$6.03 | GLBCOX611/64 | \$6.58 |
| 3/16" | .1875 | 2-5/16" | DWDA/CX63/16 | \$3.76 | D/AA/CX63/16 | \$5.78 | GLBCOX63/16 | \$6.58 |
| 13/64" | .2031 | 2-7/16" | DWDA/CX613/64 | \$4.54 | D/AA/CX613/64 | \$6.93 | GLBCOX613/64 | \$8.19 |
| 7/32" | .2188 | 2-1/2" | DWDA/CX67/32 | \$4.54 | D/AA/CX67/32 | \$6.93 | GLBCOX67/32 | \$8.19 |
| 15/64" | .2344 | 2-5/8" | DWDA/CX615/64 | \$5.17 | D/AA/CX615/64 | \$7.91 | GLBCOX615/64 | \$8.94 |
| 1/4" | .2500 | 2-3/4" | DWDA/CX61/4 | \$5.17 | D/AA/CX61/4 | \$7.59 | GLBCOX61/4 | \$8.94 |
| 17/64" | .2656 | 2-7/8" | DWDA/CX617/64 | \$8.03 | D/AA/CX617/64 | \$12.87 | GLBCOX617/64 | \$15.07 |
| 9/32" | .2813 | 2-15/16" | DWDA/CX69/32 | \$9.28 | D/AA/CX69/32 | \$14.84 | GLBCOX69/32 | \$16.59 |
| 19/64" | .2969 | 3-1/16" | DWDA/CX619/64 | \$10.46 | D/AA/CX619/64 | \$16.74 | GLBCOX619/64 | \$17.88 |
| 5/16" | .3125 | 3-3/16" | DWDA/CX65/16 | \$11.59 | D/AA/CX65/16 | \$17.81 | GLBCOX65/16 | \$18.34 |
| 21/64" | .3281 | 3-5/16" | DWDA/CX621/64 | \$13.39 | D/AA/CX621/64 | \$21.41 | GLBCOX621/64 | \$19.66 |
| 11/32" | .3438 | 3-7/16" | DWDA/CX611/32 | \$13.64 | D/AA/CX611/32 | \$21.83 | GLBCOX611/32 | \$20.65 |
| 23/64" | .3594 | 3-1/2" | DWDA/CX623/64 | \$14.18 | D/AA/CX623/64 | \$22.57 | GLBCOX623/64 | \$22.80 |
| 3/8" | .3750 | 3-5/8" | DWDA/CX63/8 | \$15.11 | D/AA/CX63/8 | \$23.20 | GLBCOX63/8 | \$22.96 |
| 25/64" | .3906 | 3-3/4" | DWDA/CX625/64 | \$16.26 | D/AA/CX625/64 | \$25.01 | GLBCOX625/64 | \$25.04 |
| 13/32" | .4063 | 3-7/8" | DWDA/CX613/32 | \$16.88 | D/AA/CX613/32 | \$25.94 | GLBCOX613/32 | \$25.76 |
| 27/64" | .4219 | 3-15/16" | DWDA/CX627/64 | \$17.78 | D/AA/CX627/64 | \$27.36 | GLBCOX627/64 | \$27.45 |
| 7/16" | .4375 | 4-1/16" | DWDA/CX67/16 | \$19.96 | D/AA/CX67/16 | \$30.72 | GLBCOX67/16 | \$26.60 |
| 29/64" | .4531 | 4-3/16" | DWDA/CX629/64 | \$20.41 | D/AA/CX629/64 | \$31.42 | - | - |
| 15/32" | .4688 | 4-5/16" | DWDA/CX615/32 | \$20.41 | D/AA/CX615/32 | \$31.42 | - | - |
| 31/64" | .4844 | 4-3/8" | DWDA/CX631/64 | \$22.71 | D/AA/CX631/64 | \$34.93 | - | - |
| 1/2" | .5000 | 4-1/2" | DWDA/CX61/2 | \$22.71 | D/AA/CX61/2 | \$33.42 | - | - |

*118° Standard Point

6" AIRCRAFT EXT. DRILLS

| DWDA/C Series | | | | |
|---------------|-------------|--------------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
| A | .2340 | 2-5/8" | DWDA/CX6A | \$11.40 |
| B | .2380 | 2-3/4" | DWDA/CX6B | \$11.40 |
| C | .2420 | 2-3/4" | DWDA/CX6C | \$11.40 |
| D | .2460 | 2-3/4" | DWDA/CX6D | \$11.40 |
| E | .2500 | 2-3/4" | DWDA/CX6E | \$8.87 |
| F | .2570 | 2-7/8" | DWDA/CX6F | \$12.59 |
| G | .2610 | 2-7/8" | DWDA/CX6G | \$20.76 |
| H | .2660 | 2-7/8" | DWDA/CX6H | \$21.97 |
| I | .2720 | 2-7/8" | DWDA/CX6I | \$21.97 |
| J | .2770 | 2-7/8" | DWDA/CX6J | \$21.97 |
| K | .2810 | 2-15/16" | DWDA/CX6K | \$21.97 |
| L | .2900 | 2-15/16" | DWDA/CX6L | \$24.91 |
| M | .2950 | 3-1/16" | DWDA/CX6M | \$24.91 |

| DWDA/C Series | | | | |
|---------------|-------------|--------------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
| N | .3020 | 3-1/16" | DWDA/CX6N | \$28.04 |
| O | .3160 | 3-3/16" | DWDA/CX6O | \$29.32 |
| P | .3230 | 3-5/16" | DWDA/CX6P | \$29.32 |
| Q | .3320 | 3-7/16" | DWDA/CX6Q | \$29.53 |
| R | .3390 | 3-7/16" | DWDA/CX6R | \$29.53 |
| S | .3480 | 3-1/2" | DWDA/CX6S | \$32.54 |
| T | .3580 | 3-1/2" | DWDA/CX6T | \$32.54 |
| U | .3680 | 3-5/8" | DWDA/CX6U | \$34.40 |
| V | .3770 | 3-5/8" | DWDA/CX6V | \$36.34 |
| W | .3860 | 3-3/4" | DWDA/CX6W | \$36.34 |
| X | .3970 | 3-3/4" | DWDA/CX6X | \$36.34 |
| Y | .4040 | 3-7/8" | DWDA/CX6Y | \$36.34 |
| Z | .4130 | 3-7/8" | DWDA/CX6Z | \$38.97 |

| DWDA/C Series | | | | | GLBCO Series | |
|---------------|-------------|--------------|-------------|------------|--------------|------------|
| Size | Dec. Equiv. | Flute Length | Part Number | List Price | Part Number | List Price |
| 1 | .2280 | 2-5/8" | DWDA/CX61 | \$5.37 | GLBCOX61 | \$9.28 |
| 2 | .2210 | 2-5/8" | DWDA/CX62 | \$5.37 | GLBCOX62 | \$9.28 |
| 3 | .2130 | 2-1/2" | DWDA/CX63 | \$4.82 | GLBCOX63 | \$8.38 |
| 4 | .2090 | 2-1/2" | DWDA/CX64 | \$4.82 | GLBCOX64 | \$8.38 |
| 5 | .2055 | 2-1/2" | DWDA/CX65 | \$4.82 | GLBCOX65 | \$8.38 |
| 6 | .2040 | 2-1/2" | DWDA/CX66 | \$4.82 | GLBCOX66 | \$8.38 |
| 7 | .2010 | 2-7/16" | DWDA/CX67 | \$4.82 | GLBCOX67 | \$8.38 |
| 8 | .1990 | 2-7/16" | DWDA/CX68 | \$4.75 | GLBCOX68 | \$8.10 |
| 9 | .1960 | 2-7/16" | DWDA/CX69 | \$4.66 | GLBCOX69 | \$8.10 |
| 10 | .1935 | 2-7/16" | DWDA/CX610 | \$4.04 | GLBCOX610 | \$7.50 |
| 11 | .1910 | 2-5/16" | DWDA/CX611 | \$4.04 | GLBCOX611 | \$7.50 |
| 12 | .1890 | 2-5/16" | DWDA/CX612 | \$4.04 | GLBCOX612 | \$6.97 |
| 13 | .1850 | 2-5/16" | DWDA/CX613 | \$3.85 | GLBCOX613 | \$6.97 |
| 14 | .1820 | 2-3/16" | DWDA/CX614 | \$3.85 | GLBCOX614 | \$6.97 |
| 15 | .1800 | 2-3/16" | DWDA/CX615 | \$3.85 | GLBCOX615 | \$6.97 |
| 16 | .1770 | 2-3/16" | DWDA/CX616 | \$3.85 | GLBCOX616 | \$6.97 |
| 17 | .1730 | 2-3/16" | DWDA/CX617 | \$3.85 | GLBCOX617 | \$6.97 |
| 18 | .1695 | 2-1/8" | DWDA/CX618 | \$3.85 | GLBCOX618 | \$6.97 |
| 19 | .1660 | 2-1/8" | DWDA/CX619 | \$3.85 | GLBCOX619 | \$6.97 |
| 20 | .1610 | 2-1/8" | DWDA/CX620 | \$3.52 | GLBCOX620 | \$6.34 |
| 21 | .1590 | 2-1/8" | DWDA/CX621 | \$3.52 | GLBCOX621 | \$6.34 |
| 22 | .1570 | 2" | DWDA/CX622 | \$3.52 | GLBCOX622 | \$6.34 |
| 23 | .1540 | 2" | DWDA/CX623 | \$3.52 | GLBCOX623 | \$6.34 |
| 24 | .1520 | 2" | DWDA/CX624 | \$3.52 | GLBCOX624 | \$6.34 |
| 25 | .1495 | 1-7/8" | DWDA/CX625 | \$3.52 | GLBCOX625 | \$6.34 |
| 26 | .1470 | 1-7/8" | DWDA/CX626 | \$3.52 | GLBCOX626 | \$6.34 |
| 27 | .1440 | 1-7/8" | DWDA/CX627 | \$3.52 | GLBCOX627 | \$6.34 |
| 28 | .1405 | 1-3/4" | DWDA/CX628 | \$3.52 | GLBCOX628 | \$6.34 |
| 29 | .1360 | 1-3/4" | DWDA/CX629 | \$3.52 | GLBCOX629 | \$6.34 |
| 30 | .1285 | 1-5/8" | DWDA/CX630 | \$2.87 | GLBCOX630 | \$5.11 |
| 31 | .1200 | 1-5/8" | DWDA/CX631 | \$2.87 | GLBCOX631 | \$5.11 |
| 32 | .1160 | 1-5/8" | DWDA/CX632 | \$2.87 | GLBCOX632 | \$5.11 |
| 33 | .1130 | 1-1/2" | DWDA/CX633 | \$2.87 | GLBCOX633 | \$5.11 |
| 34 | .1110 | 1-1/2" | DWDA/CX634 | \$2.87 | GLBCOX634 | \$5.11 |
| 35 | .1100 | 1-1/2" | DWDA/CX635 | \$2.87 | GLBCOX635 | \$5.11 |
| 36 | .1065 | 1-7/16" | DWDA/CX636 | \$2.95 | GLBCOX636 | \$5.37 |
| 37 | .1040 | 1-7/16" | DWDA/CX637 | \$2.95 | GLBCOX637 | \$5.37 |
| 38 | .1015 | 1-7/16" | DWDA/CX638 | \$2.95 | GLBCOX638 | \$5.37 |
| 39 | .0995 | 1-3/8" | DWDA/CX639 | \$3.04 | GLBCOX639 | \$5.37 |
| 40 | .0980 | 1-3/8" | DWDA/CX640 | \$2.61 | GLBCOX640 | \$5.37 |
| 41 | .0960 | 1-3/8" | DWDA/CX641 | \$3.27 | GLBCOX641 | \$5.59 |
| 42 | .0935 | 1-1/4" | DWDA/CX642 | \$3.27 | GLBCOX642 | \$5.59 |
| 43 | .0890 | 1-1/4" | DWDA/CX643 | \$4.19 | GLBCOX643 | \$5.59 |

| DWDA/C Series | | | | |
|---------------|-------------|--------------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
| 44 | .0860 | 1-1/8" | DWDA/CX644 | \$4.19 |
| 45 | .0820 | 1-1/8" | DWDA/CX645 | \$4.19 |
| 46 | .0810 | 1-1/8" | DWDA/CX646 | \$4.19 |
| 47 | .0785 | 1" | DWDA/CX647 | \$4.19 |
| 48 | .0760 | 1" | DWDA/CX648 | \$4.19 |
| 49 | .0730 | 1" | DWDA/CX649 | \$4.19 |
| 50 | .0700 | 1" | DWDA/CX650 | \$4.19 |
| 51 | .0670 | 1" | DWDA/CX651 | \$4.19 |
| 52 | .0635 | 7/8" | DWDA/CX652 | \$4.19 |
| *53 | .0595 | 7/8" | DWDA/CX653 | \$8.38 |
| *54 | .0550 | 7/8" | DWDA/CX654 | \$8.38 |
| *55 | .0520 | 7/8" | DWDA/CX655 | \$8.38 |
| *56 | .0465 | 3/4" | DWDA/CX656 | \$8.38 |
| *57 | .0430 | 3/4" | DWDA/CX657 | \$10.11 |
| *58 | .0420 | 11/16" | DWDA/CX658 | \$10.11 |
| *59 | .0410 | 11/16" | DWDA/CX659 | \$10.11 |
| *60 | .0400 | 11/16" | DWDA/CX660 | \$10.11 |

*118° Standard Point

| GLBCO Series | | | | |
|--------------|-------------|--------------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
| 44 | .0860 | 1-1/8" | GLBCOX644 | \$5.81 |
| 45 | .0820 | 1-1/8" | GLBCOX645 | \$5.81 |
| 46 | .0810 | 1-1/8" | GLBCOX646 | \$5.81 |
| 47 | .0785 | 1" | GLBCOX647 | \$5.81 |
| 48 | .0760 | 1" | GLBCOX648 | \$5.81 |
| 49 | .0730 | 1" | GLBCOX649 | \$5.81 |
| 50 | .0700 | 1" | GLBCOX650 | \$5.81 |
| 51 | .0670 | 1" | GLBCOX651 | \$6.24 |
| 52 | .0635 | 7/8" | GLBCOX652 | \$6.24 |

12" AIRCRAFT EXT. DRILLS



FRACTIONAL SIZES

| | | | DWDA/C Series | | D/AA/C Series | | GLBCO Series | |
|--------|-------------|--------------|----------------|------------|----------------|------------|---------------|------------|
| Size | Dec. Equiv. | Flute Length | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 1/16" | .0625 | 7/8" | DWDA/CX121/16 | \$6.94 | D/AA/CX121/16 | \$9.20 | GLBCOX121/16 | \$15.71 |
| 5/64" | .0781 | 1" | DWDA/CX125/64 | \$6.66 | D/AA/CX125/64 | \$8.82 | GLBCOX125/64 | \$15.71 |
| 3/32" | .0938 | 1-1/4" | DWDA/CX123/32 | \$7.16 | D/AA/CX123/32 | \$9.49 | GLBCOX123/32 | \$12.43 |
| 7/64" | .1094 | 1-1/2" | DWDA/CX127/64 | \$7.43 | D/AA/CX127/64 | \$9.87 | GLBCOX127/64 | \$13.68 |
| 1/8" | .1250 | 1-5/8" | DWDA/CX121/8 | \$7.47 | D/AA/CX121/8 | \$9.87 | GLBCOX121/8 | \$13.90 |
| 9/64" | .1406 | 1-3/4" | DWDA/CX129/64 | \$8.18 | D/AA/CX129/64 | \$10.73 | GLBCOX129/64 | \$15.71 |
| 5/32" | .1563 | 2" | DWDA/CX125/32 | \$9.22 | D/AA/CX125/32 | \$12.10 | GLBCOX125/32 | \$14.21 |
| 11/64" | .1719 | 2-1/8" | DWDA/CX1211/64 | \$9.13 | D/AA/CX1211/64 | \$12.10 | GLBCOX1211/64 | \$15.47 |
| 3/16" | .1875 | 2-5/16" | DWDA/CX123/16 | \$9.44 | D/AA/CX123/16 | \$12.54 | GLBCOX123/16 | \$15.47 |
| 13/64" | .2031 | 2-7/16" | DWDA/CX1213/64 | \$10.34 | D/AA/CX1213/64 | \$13.10 | GLBCOX1213/64 | \$16.99 |
| 7/32" | .2188 | 2-1/2" | DWDA/CX127/32 | \$10.47 | D/AA/CX127/32 | \$13.24 | GLBCOX127/32 | \$17.76 |
| 15/64" | .2344 | 2-5/8" | DWDA/CX1215/64 | \$11.07 | D/AA/CX1215/64 | \$14.02 | GLBCOX1215/64 | \$19.04 |
| 1/4" | .2500 | 2-3/4" | DWDA/CX121/4 | \$11.18 | D/AA/CX121/4 | \$15.38 | GLBCOX121/4 | \$19.04 |
| 17/64" | .2656 | 2-7/8" | DWDA/CX1217/64 | \$12.91 | D/AA/CX1217/64 | \$16.33 | GLBCOX1217/64 | \$29.23 |
| 9/32" | .2813 | 2-15/16" | DWDA/CX129/32 | \$13.09 | D/AA/CX129/32 | \$18.03 | GLBCOX129/32 | \$29.56 |
| 19/64" | .2969 | 3-1/16" | DWDA/CX1219/64 | \$14.89 | D/AA/CX1219/64 | \$20.45 | GLBCOX1219/64 | \$30.99 |
| 5/16" | .3125 | 3-3/16" | DWDA/CX125/16 | \$15.13 | D/AA/CX125/16 | \$20.76 | GLBCOX125/16 | \$31.57 |
| 21/64" | .3281 | 3-5/16" | DWDA/CX1221/64 | \$17.02 | D/AA/CX1221/64 | \$22.98 | GLBCOX1221/64 | \$32.46 |
| 11/32" | .3438 | 3-7/16" | DWDA/CX1211/32 | \$17.02 | D/AA/CX1211/32 | \$21.14 | GLBCOX1211/32 | \$33.44 |
| 23/64" | .3594 | 3-1/2" | DWDA/CX1223/64 | \$19.03 | D/AA/CX1223/64 | \$23.69 | GLBCOX1223/64 | \$35.47 |
| 3/8" | .3750 | 3-5/8" | DWDA/CX123/8 | \$19.03 | D/AA/CX123/8 | \$25.75 | GLBCOX123/8 | \$36.26 |
| 25/64" | .3906 | 3-3/4" | DWDA/CX1225/64 | \$21.91 | D/AA/CX1225/64 | \$30.87 | GLBCOX1225/64 | \$37.61 |
| 13/32" | .4063 | 3-7/8" | DWDA/CX1213/32 | \$21.91 | D/AA/CX1213/32 | \$30.87 | GLBCOX1213/32 | \$38.26 |
| 27/64" | .4219 | 3-15/16" | DWDA/CX1227/64 | \$24.60 | D/AA/CX1227/64 | \$34.67 | GLBCOX1227/64 | \$39.88 |
| 7/16" | .4375 | 4-1/16" | DWDA/CX127/16 | \$24.60 | D/AA/CX127/16 | \$34.67 | GLBCOX127/16 | \$51.01 |
| 29/64" | .4531 | 4-3/16" | DWDA/CX1229/64 | \$27.91 | D/AA/CX1229/64 | \$38.03 | GLBCOX1229/64 | \$54.67 |
| 15/32" | .4688 | 4-5/16" | DWDA/CX1215/32 | \$27.91 | D/AA/CX1215/32 | \$38.03 | GLBCOX1215/32 | \$55.05 |
| 31/64" | .4844 | 4-3/8" | DWDA/CX1231/64 | \$30.44 | D/AA/CX1231/64 | \$41.55 | GLBCOX1231/64 | \$57.01 |
| 1/2" | .5000 | 4-1/2" | DWDA/CX121/2 | \$30.44 | D/AA/CX121/2 | \$41.55 | GLBCOX121/2 | \$64.96 |



LETTER SIZES

| DWDA/C Series | | | | |
|---------------|-------------|--------------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
| A | .2340 | 2-5/8" | DWDA/CX12A | \$24.44 |
| B | .2380 | 2-3/4" | DWDA/CX12B | \$24.44 |
| C | .2420 | 2-3/4" | DWDA/CX12C | \$24.44 |
| D | .2460 | 2-3/4" | DWDA/CX12D | \$24.44 |
| E | .2500 | 2-3/4" | DWDA/CX12E | \$22.11 |
| F | .2570 | 2-7/8" | DWDA/CX12F | \$29.01 |
| G | .2610 | 2-7/8" | DWDA/CX12G | \$29.09 |
| H | .2660 | 2-7/8" | DWDA/CX12H | \$29.09 |
| I | .2720 | 2-7/8" | DWDA/CX12I | \$29.09 |
| J | .2770 | 2-7/8" | DWDA/CX12J | \$29.09 |
| K | .2810 | 2-15/16" | DWDA/CX12K | \$29.09 |
| L | .2900 | 2-15/16" | DWDA/CX12L | \$30.73 |
| M | .2950 | 3-1/16" | DWDA/CX12M | \$30.73 |

| DWDA/C Series | | | | |
|---------------|-------------|--------------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
| N | .3020 | 3-1/16" | DWDA/CX12N | \$33.48 |
| O | .3160 | 3-3/16" | DWDA/CX12O | \$35.91 |
| P | .3230 | 3-5/16" | DWDA/CX12P | \$36.56 |
| Q | .3320 | 3-7/16" | DWDA/CX12Q | \$38.26 |
| R | .3390 | 3-7/16" | DWDA/CX12R | \$39.97 |
| S | .3480 | 3-1/2" | DWDA/CX12S | \$41.82 |
| T | .3580 | 3-1/2" | DWDA/CX12T | \$41.82 |
| U | .3680 | 3-5/8" | DWDA/CX12U | \$41.82 |
| V | .3770 | 3-5/8" | DWDA/CX12V | \$44.35 |
| W | .3860 | 3-3/4" | DWDA/CX12W | \$45.94 |
| X | .3970 | 3-3/4" | DWDA/CX12X | \$48.58 |
| Y | .4040 | 3-7/8" | DWDA/CX12Y | \$48.58 |
| Z | .4130 | 3-7/8" | DWDA/CX12Z | \$51.25 |

12" AIRCRAFT EXT. DRILLS

WIRE GAUGE SIZES

| Size | Dec. Equiv. | Flute Length | DWDA/C Series | | GLBCO Series | |
|------|-------------|--------------|---------------|------------|--------------|------------|
| | | | Part Number | List Price | Part Number | List Price |
| 1 | .2280 | 2-5/8" | DWDA/CX121 | \$13.02 | GLBCOX121 | \$20.70 |
| 2 | .2210 | 2-5/8" | DWDA/CX122 | \$13.02 | GLBCOX122 | \$20.70 |
| 3 | .2130 | 2-1/2" | DWDA/CX123 | \$12.12 | GLBCOX123 | \$19.31 |
| 4 | .2090 | 2-1/2" | DWDA/CX124 | \$12.12 | GLBCOX124 | \$19.31 |
| 5 | .2055 | 2-1/2" | DWDA/CX125 | \$12.12 | GLBCOX125 | \$19.31 |
| 6 | .2040 | 2-1/2" | DWDA/CX126 | \$12.12 | GLBCOX126 | \$19.31 |
| 7 | .2010 | 2-7/16" | DWDA/CX127 | \$12.12 | GLBCOX127 | \$19.31 |
| 8 | .1990 | 2-7/16" | DWDA/CX128 | \$12.12 | GLBCOX128 | \$19.31 |
| 9 | .1960 | 2-7/16" | DWDA/CX129 | \$11.06 | GLBCOX129 | \$17.32 |
| 10 | .1935 | 2-7/16" | DWDA/CX1210 | \$11.06 | GLBCOX1210 | \$17.32 |
| 11 | .1910 | 2-5/16" | DWDA/CX1211 | \$11.06 | GLBCOX1211 | \$17.32 |
| 12 | .1890 | 2-5/16" | DWDA/CX1212 | \$11.06 | GLBCOX1212 | \$17.32 |
| 13 | .1850 | 2-5/16" | DWDA/CX1213 | \$10.55 | GLBCOX1213 | \$17.32 |
| 14 | .1820 | 2-3/16" | DWDA/CX1214 | \$10.55 | GLBCOX1214 | \$17.32 |
| 15 | .1800 | 2-3/16" | DWDA/CX1215 | \$10.55 | GLBCOX1215 | \$17.32 |
| 16 | .1770 | 2-3/16" | DWDA/CX1216 | \$10.55 | GLBCOX1216 | \$17.32 |
| 17 | .1730 | 2-3/16" | DWDA/CX1217 | \$10.55 | GLBCOX1217 | \$17.32 |
| 18 | .1695 | 2-1/8" | DWDA/CX1218 | \$10.55 | GLBCOX1218 | \$17.32 |
| 19 | .1660 | 2-1/8" | DWDA/CX1219 | \$10.55 | GLBCOX1219 | \$17.32 |
| 20 | .1610 | 2-1/8" | DWDA/CX1220 | \$9.48 | GLBCOX1220 | \$15.84 |
| 21 | .1590 | 2-1/8" | DWDA/CX1221 | \$9.48 | GLBCOX1221 | \$15.84 |
| 22 | .1570 | 2" | DWDA/CX1222 | \$9.48 | GLBCOX1222 | \$15.84 |
| 23 | .1540 | 2" | DWDA/CX1223 | \$9.48 | GLBCOX1223 | \$15.84 |
| 24 | .1520 | 2" | DWDA/CX1224 | \$9.48 | GLBCOX1224 | \$15.84 |
| 25 | .1495 | 1-7/8" | DWDA/CX1225 | \$9.48 | GLBCOX1225 | \$15.84 |
| 26 | .1470 | 1-7/8" | DWDA/CX1226 | \$9.48 | GLBCOX1226 | \$15.84 |
| 27 | .1440 | 1-7/8" | DWDA/CX1227 | \$9.48 | GLBCOX1227 | \$15.84 |
| 28 | .1405 | 1-3/4" | DWDA/CX1228 | \$9.48 | GLBCOX1228 | \$15.84 |
| 29 | .1360 | 1-3/4" | DWDA/CX1229 | \$9.48 | GLBCOX1229 | \$15.84 |
| 30 | .1285 | 1-5/8" | DWDA/CX1230 | \$9.48 | GLBCOX1230 | \$15.84 |
| 31 | .1200 | 1-5/8" | DWDA/CX1231 | \$9.48 | GLBCOX1231 | \$15.84 |
| 32 | .1160 | 1-5/8" | DWDA/CX1232 | \$9.48 | GLBCOX1232 | \$15.84 |
| 33 | .1130 | 1-1/2" | DWDA/CX1233 | \$9.76 | GLBCOX1233 | \$16.32 |
| 34 | .1110 | 1-1/2" | DWDA/CX1234 | \$9.76 | GLBCOX1234 | \$16.32 |
| 35 | .1100 | 1-1/2" | DWDA/CX1235 | \$9.76 | GLBCOX1235 | \$16.32 |
| 36 | .1065 | 1-7/16" | DWDA/CX1236 | \$9.76 | GLBCOX1236 | \$16.32 |
| 37 | .1040 | 1-7/16" | DWDA/CX1237 | \$9.76 | GLBCOX1237 | \$16.32 |
| 38 | .1015 | 1-7/16" | DWDA/CX1238 | \$9.76 | GLBCOX1238 | \$16.32 |
| 39 | .0995 | 1-3/8" | DWDA/CX1239 | \$9.76 | GLBCOX1239 | \$16.32 |
| 40 | .0980 | 1-3/8" | DWDA/CX1240 | \$8.90 | GLBCOX1240 | \$15.71 |
| 41 | .0960 | 1-3/8" | DWDA/CX1241 | \$12.12 | GLBCOX1241 | \$15.71 |
| 42 | .0935 | 1-1/4" | DWDA/CX1242 | \$12.12 | GLBCOX1242 | \$15.71 |
| 43 | .0890 | 1-1/4" | DWDA/CX1243 | \$15.36 | GLBCOX1243 | \$15.71 |
| 44 | .0860 | 1-1/8" | DWDA/CX1244 | \$15.36 | GLBCOX1244 | \$15.71 |
| 45 | .0820 | 1-1/8" | DWDA/CX1245 | \$15.36 | GLBCOX1245 | \$15.71 |
| 46 | .0810 | 1-1/8" | DWDA/CX1246 | \$15.36 | GLBCOX1246 | \$15.71 |
| 47 | .0785 | 1" | DWDA/CX1247 | \$13.51 | GLBCOX1247 | \$15.71 |
| 48 | .0760 | 1" | DWDA/CX1248 | \$13.51 | GLBCOX1248 | \$15.71 |
| 49 | .0730 | 1" | DWDA/CX1249 | \$13.51 | GLBCOX1249 | \$15.71 |
| 50 | .0700 | 1" | DWDA/CX1250 | \$13.51 | GLBCOX1250 | \$15.71 |
| 51 | .0670 | 1" | DWDA/CX1251 | \$16.23 | GLBCOX1251 | \$15.71 |
| 52 | .0635 | 7/8" | DWDA/CX1252 | \$16.23 | GLBCOX1252 | \$15.71 |
| *53 | .0595 | 7/8" | DWDA/CX1253 | \$16.42 | - | - |
| *54 | .0550 | 7/8" | DWDA/CX1254 | \$16.42 | - | - |
| *55 | .0520 | 7/8" | DWDA/CX1255 | \$16.42 | - | - |
| *56 | .0465 | 3/4" | DWDA/CX1256 | \$16.42 | - | - |
| *57 | .0430 | 3/4" | DWDA/CX1257 | \$16.42 | - | - |
| *58 | .0420 | 11/16" | DWDA/CX1258 | \$18.49 | - | - |
| *59 | .0410 | 11/16" | DWDA/CX1259 | \$18.49 | - | - |
| *60 | .0400 | 11/16" | DWDA/CX1260 | \$18.49 | - | - |

*118° Standard Point



CARBIDE TIPPED MASONRY DRILLS

DAM Series - Masonry Drills

Engineered with wide flutes to provide fast dust removal in softer materials. Designed for drilling in brick, concrete and sandstone. Carbide tips brazed to tough steel bodies and are larger than the nominal drill size to provide clearance for installation of anchor screws, expansion shields and toggle bolts. Designed for use in portable electric drills.

*Set includes five sizes: 3/16" x 6", 1/4" x 6", 5/16" x 6", 3/8" x 6" and 1/2" x 6".



| DAM Series | | | | | |
|------------|-------------|-------|--------|----------------|------------|
| Size | Dec. Equiv. | Shank | O.A.L. | Part Number | List Price |
| 1/8" | .1250 | 1/8" | 3" | DAM3X1/8 | \$1.59 |
| 3/16" | .1875 | 3/16" | 4" | DAM4X3/16 | \$1.66 |
| 3/16" | .1875 | 3/16" | 6" | DAM6X3/16 | \$2.90 |
| 7/32" | .2188 | 7/32" | 4" | DAM4X7/32 | \$1.84 |
| 1/4" | .2500 | 1/4" | 4" | DAM4X1/4 | \$1.84 |
| 1/4" | .2500 | 1/4" | 6" | DAM6X1/4 | \$2.90 |
| 1/4" | .2500 | 1/4" | 13" | DAM13X1/4 | \$8.06 |
| 1/4" | .2500 | 1/4" | 18" | DAM18X1/4 | \$14.32 |
| 1/4" | .2500 | 1/4" | 24" | DAM24X1/4 | \$15.13 |
| 1/4" | .2500 | 1/4" | 30" | DAM30X1/4 | \$17.66 |
| 5/16" | .3125 | 1/4" | 4" | DAM4X5/16 | \$2.39 |
| 5/16" | .3125 | 1/4" | 6" | DAM6X5/16 | \$3.78 |
| 5/16" | .3125 | 1/4" | 13" | DAM13X5/16 | \$8.44 |
| 5/16" | .3125 | 1/4" | 18" | DAM18X5/16 | \$15.29 |
| 5/16" | .3125 | 1/4" | 24" | DAM24X5/16 | \$16.08 |
| 5/16" | .3125 | 1/4" | 30" | DAM30X5/16 | \$18.77 |
| 3/8" | .3750 | 3/8" | 4" | DAM4X3/8 | \$3.20 |
| 3/8" | .3750 | 1/4" | 6" | DAM6X3/8X1/4 | \$4.31 |
| 3/8" | .3750 | 3/8" | 6" | DAM6X3/8X3/8 | \$4.31 |
| 3/8" | .3750 | 3/8" | 13" | DAM13X3/8X3/8 | \$10.95 |
| 3/8" | .3750 | 3/8" | 18" | DAM18X3/8 | \$16.08 |
| 3/8" | .3750 | 3/8" | 24" | DAM24X3/8 | \$16.89 |
| 3/8" | .3750 | 3/8" | 30" | DAM30X3/8 | \$19.57 |
| 7/16" | .4375 | 1/4" | 4" | DAM4X7/16 | \$4.73 |
| 7/16" | .4375 | 1/4" | 6" | DAM6X7/16X1/4 | \$5.12 |
| 7/16" | .4375 | 3/8" | 6" | DAM6X7/16X3/8 | \$5.12 |
| 7/16" | .4375 | 3/8" | 13" | DAM13X7/16X3/8 | \$11.38 |
| 7/16" | .4375 | 3/8" | 18" | DAM18X7/16 | \$17.68 |
| 1/2" | .5000 | 3/8" | 4" | DAM4X1/2 | \$5.37 |
| 1/2" | .5000 | 1/4" | 6" | DAM6X1/2X1/4 | \$5.76 |
| 1/2" | .5000 | 3/8" | 6" | DAM6X1/2X3/8 | \$5.76 |
| 1/2" | .5000 | 3/8" | 13" | DAM13X1/2X3/8 | \$12.27 |
| 1/2" | .5000 | 3/8" | 18" | DAM18X1/2 | \$19.29 |
| 1/2" | .5000 | 3/8" | 24" | DAM24X1/2 | \$20.32 |
| 1/2" | .5000 | 3/8" | 30" | DAM30X1/2 | \$23.45 |
| 9/16" | .5625 | 3/8" | 6" | DAM6X9/16X3/8 | \$6.33 |
| 9/16" | .5625 | 1/2" | 6" | DAM6X9/16X1/2 | \$6.33 |
| 9/16" | .5625 | 3/8" | 13" | DAM13X9/16X3/8 | \$12.79 |
| 9/16" | .5625 | 1/2" | 13" | DAM13X9/16X1/2 | \$12.79 |
| 9/16" | .5625 | 1/2" | 18" | DAM18X9/16 | \$20.09 |
| 5/8" | .6250 | 1/4" | 4" | DAM4X5/8 | \$8.00 |
| 5/8" | .6250 | 3/8" | 6" | DAM6X5/8X3/8 | \$8.44 |
| 5/8" | .6250 | 1/2" | 6" | DAM6X5/8X1/2 | \$8.44 |
| 5/8" | .6250 | 1/2" | 13" | DAM13X5/8X1/2 | \$16.18 |
| 5/8" | .6250 | 1/2" | 18" | DAM18X5/8 | \$22.64 |
| 5/8" | .6250 | 1/2" | 24" | DAM24X5/8 | \$23.72 |
| 11/16" | .6875 | 1/2" | 6" | DAM6X11/16 | \$14.97 |
| 3/4" | .7500 | 1/2" | 6" | DAM6X3/4 | \$17.19 |
| 3/4" | .7500 | 1/2" | 13" | DAM13X3/4 | \$24.25 |
| 3/4" | .7500 | 1/2" | 18" | DAM18X3/4 | \$29.74 |
| 3/4" | .7500 | 1/2" | 24" | DAM24X3/4 | \$31.06 |
| 7/8" | .8750 | 1/2" | 6" | DAM6X7/8 | \$18.49 |
| 7/8" | .8750 | 1/2" | 13" | DAM13X7/8 | \$30.06 |
| 7/8" | .8750 | 1/2" | 18" | DAM18X7/8 | \$36.84 |
| 1" | 1.0000 | 1/2" | 6" | DAM6X1 | \$22.50 |
| 1" | 1.0000 | 1/2" | 13" | DAM13X1 | \$39.01 |
| 1" | 1.0000 | 1/2" | 18" | DAM18X1 | \$48.08 |
| *Set | - | - | 6" | DAMSET | \$17.81 |

SDS DRILLS

SDS Series

SDS Plus shank hammer bits are especially suited for drilling in stone or concrete. Premium SDS Drill Bits are auto-weld manufactured on first-class German and Swiss equipment with a Japanese-manufactured carbide-tip. *Set includes five sizes: 3/16" x 6", 1/4" x 4", 1/4" x 6", 3/8" x 6" and 1/2" x 6".



| SDS Series | | | | |
|------------|--------------|--------|-------------|------------|
| Size | Flute Length | O.A.L. | Part Number | List Price |
| 5/32" | 3-3/4" | 6" | SDS5326 | \$10.58 |
| 3/16" | 1-3/4" | 4" | SDS3164 | \$5.91 |
| 3/16" | 3-3/4" | 6" | SDS3166 | \$6.77 |
| 3/16" | 5-1/2" | 8" | SDS3168 | \$6.77 |
| 3/16" | 6-1/2" | 10" | SDS31610 | \$15.74 |
| 3/16" | 9" | 12" | SDS31612 | \$17.63 |
| 7/32" | 3-3/4" | 6" | SDS7326 | \$10.78 |
| 7/32" | 5-1/2" | 8" | SDS7328 | \$15.35 |
| 1/4" | 1-3/4" | 4" | SDS144 | \$5.76 |
| 1/4" | 3-3/4" | 6" | SDS146 | \$6.63 |
| 1/4" | 5-1/2" | 8" | SDS148 | \$9.02 |
| 1/4" | 9" | 12" | SDS1412 | \$20.67 |
| 5/16" | 3-3/4" | 6" | SDS5166 | \$7.53 |
| 5/16" | 9" | 12" | SDS51612 | \$13.48 |
| 3/8" | 3-3/4" | 6" | SDS386 | \$7.98 |
| 3/8" | 5-1/2" | 8" | SDS388 | \$12.55 |
| 3/8" | 9" | 12" | SDS3812 | \$14.29 |
| 3/8" | 14" | 18" | SDS3818 | \$23.74 |
| 7/16" | 3-3/4" | 6" | SDS7166 | \$10.19 |
| 1/2" | 3-3/4" | 6" | SDS126 | \$10.58 |
| 1/2" | 9" | 12" | SDS1212 | \$17.73 |
| 1/2" | 14" | 18" | SDS1218 | \$28.79 |
| 9/16" | 3-3/4" | 6" | SDS9166 | \$13.87 |
| 5/8" | 5-1/2" | 8" | SDS588 | \$16.16 |
| 5/8" | 9" | 12" | SDS5812 | \$29.97 |
| 5/8" | 14" | 18" | SDS5818 | \$33.34 |
| 3/4" | 5-1/2" | 8" | SDS348 | \$34.11 |
| 3/4" | 9" | 12" | SDS3412 | \$39.48 |
| 3/4" | 14" | 18" | SDS3418 | \$51.06 |
| 7/8" | 6-1/2" | 10" | SDS7810 | \$43.35 |
| 7/8" | 14" | 18" | SDS7818 | \$47.89 |
| 1" | 6-1/2" | 10" | SDS110 | \$50.02 |
| 1" | 14" | 18" | SDS118 | \$79.59 |
| *Set | - | - | SDSSET | \$35.51 |



CONCRETE SCREW ANCHOR DRILLS

DAM Series - DAM Tapcon Drills

Screw anchor bits insure precise drilling of pilot holes when installing Tapcon anchors.

Regular Shank

| DAM Series | | | | |
|------------|--------------|--------|-------------|------------|
| Size | Flute Length | O.A.L. | Part Number | List Price |
| 5/32" | 2" | 3-1/2" | DAM532312 | \$2.96 |
| 5/32" | 3" | 4-1/2" | DAM532412 | \$3.38 |
| 5/32" | 3-1/2" | 5-1/2" | DAM532512 | \$3.70 |
| 5/32" | 4" | 6-1/2" | DAM532612 | \$5.45 |
| 5/32" | 4-1/2" | 7-1/2" | DAM532712 | \$6.84 |
| 3/16" | 2" | 3-1/2" | DAM316312 | \$3.14 |
| 3/16" | 3" | 4-1/2" | DAM316412 | \$3.53 |
| 3/16" | 3- 1/2" | 5-1/2" | DAM316512 | \$3.87 |
| 3/16" | 4" | 6-1/2" | DAM316612 | \$5.20 |
| 3/16" | 4" | 7-1/2" | DAM316712 | \$6.36 |



SDS Series - SDS Tapcon Drills

SDS Shank screw anchor bits allow for drilling pilot holes when installing Tapcon anchors using an SDS hammer drill.

SDS Shank

| SDS Series | | | | |
|------------|--------------|--------|-----------------|------------|
| Size | Flute Length | O.A.L. | Part Number | List Price |
| 5/32" | 2-1/2" | 5-1/2" | SDS532512TAPCON | \$16.80 |
| 5/32" | 4" | 7" | SDS5327TAPCON | \$16.80 |
| 3/16" | 2-1/2" | 5-1/2" | SDS316512TAPCON | \$16.80 |
| 3/16" | 4" | 7" | SDS3167TAPCON | \$16.80 |



GLASS & TILE DRILLS

DWDGD Series - Round Shank Glass & Tile Drills

Provide smooth, accurate drilling in ceramic tile, marble, china, and glass

DWDGD Series

| Size | O.A.L. | Part Number | List Price |
|----------|--------|-------------|------------|
| 1/8" | 2-1/2" | DWDGD1/8 | \$9.60 |
| 3/16" | 2-1/2" | DWDGD3/16 | \$9.91 |
| 1/4" | 2-1/2" | DWDGD1/4 | \$11.17 |
| 5/16" | 2-1/2" | DWDGD5/16 | \$12.07 |
| 3/8" | 3" | DWDGD3/8 | \$18.41 |
| 1/2" | 3" | DWDGD1/2 | \$25.76 |
| 5 Pc Set | | DWDGD-SET | \$55.12 |



DWDGDHEX Series - Hex Shank Glass & Tile Drills

Provide smooth, accurate drilling in ceramic tile, marble, china, and glass. Quick change hex shank can be used in quick change impact drivers.

DWDGDHEX Series

| Size | O.A.L. | Part Number | List Price |
|-------|--------|--------------|------------|
| 1/8" | 2-1/2" | DWDGD1/8HEX | \$10.57 |
| 3/16" | 2-1/2" | DWDGD3/16HEX | \$10.91 |
| 1/4" | 2-1/2" | DWDGD1/4HEX | \$12.29 |
| 5/16" | 2-1/2" | DWDGD5/16HEX | \$13.28 |
| 3/8" | 3" | DWDGD3/8HEX | \$20.26 |
| 1/2" | 3" | DWDGD1/2HEX | \$28.33 |



DWD4FGD Series - 4-Flute Glass & Tile Drills

4 flute carbide tipped glass and tile drill bits improve speed, longevity and accuracy compared to standard spear-tipped glass and tile drills. They have a tungsten carbide tip suitable for drilling glass, mirrors and very hard ceramic tile.

DWD4FGD Series

| Size | O.A.L. | Part Number | List Price |
|----------|--------|-------------|------------|
| 1/8" | 2-1/2" | DWD4FGD1/8 | \$9.60 |
| 3/16" | 2-1/2" | DWD4FGD3/16 | \$9.91 |
| 1/4" | 2-1/2" | DWD4FGD1/4 | \$11.17 |
| 5/16" | 2-1/2" | DWD4FGD5/16 | \$12.07 |
| 3/8" | 3" | DWD4FGD3/8 | \$18.41 |
| 1/2" | 3" | DWD4FGD1/2 | \$25.76 |
| 5 Pc Set | | DWD4FGD-SET | \$55.12 |



DWD4FGD Hex Series - 4-Flute Glass & Tile Drills with Quick Change Hex Shank

4 flute carbide tipped glass and tile drill bits improve speed, longevity and accuracy compared to standard spear-tipped glass and tile drills. They have a tungsten carbide tip suitable for drilling glass, mirrors and very hard ceramic tile. Quick change hex shank can be used in quick change impact drivers.

DWD4FGDHEX Series

| Size | O.A.L. | Part Number | List Price |
|-------|--------|----------------|------------|
| 1/8" | 2-1/2" | DWD4FGD1/8HEX | \$10.57 |
| 3/16" | 2-1/2" | DWD4FGD3/16HEX | \$10.91 |
| 1/4" | 2-1/2" | DWD4FGD1/4HEX | \$12.29 |
| 5/16" | 2-1/2" | DWD4FGD5/16HEX | \$13.28 |
| 3/8" | 3" | DWD4FGD3/8HEX | \$20.26 |
| 1/2" | 3" | DWD4FGD1/2HEX | \$28.33 |



STEP DRILLS

STE Series - Step Drills

STEHX Series - Step Drills

Step Drills are commonly used on sheet metal and general construction. These black and gold surface treated bits can be used for drilling a wide range of hole sizes in metal, plastic and wood. They have a round shank for use in a wide range of tool holding systems and are packaged individually in hanging clamshell packaging. STEHX Series have a 1/4" quick change hex shank.



| # of Steps | Range | STE Series | | STEHX Series | |
|------------|-----------------------------|------------|------------|---------------|------------|
| | | Item Code | List Price | Item Code | List Price |
| 13 | 1/8" - 1/2" x 32nds | STE1 | \$26.50 | STE1HEX | \$29.15 |
| 6 | 3/16" - 1/2" x 16ths | STE2 | \$27.33 | STE2HEX | \$30.06 |
| 9 | 1/4" - 3/4" x 16ths | STE3 | \$39.75 | STE3HEX | \$43.73 |
| 12 | 3/16" - 7/8" x 16ths | STE4 | \$44.73 | STE4HEX | \$49.21 |
| 12 | 1/4" - 1-3/8" x 8ths | STE5 | \$66.25 | STE5HEX | \$66.25 |
| | 3 Piece Set #1, 2 & 3 | STE1-3SET | \$92.75 | STE1-3HEX-SET | \$101.76 |
| | 5 Piece Set #1, 2, 3, 4 & 5 | STE1-5SET | \$198.75 | STE1-5HEX-SET | \$211.47 |

VAC Series - Step Drills

VACHEX Series - Step Drills

Step Drills are commonly used on sheet metal and general construction. They have a bright finish and are packaged in plastic tubes. VACHEX Series have a 1/4" quick change hex shank.



| # of Steps | Range | VAC Series | | VACHEX Series | |
|------------|-----------------------------|------------|------------|---------------|------------|
| | | Item Code | List Price | Item Code | List Price |
| 13 | 1/8" - 1/2" x 32nds | VAC1 | \$26.50 | VAC1HEX | \$29.15 |
| 6 | 3/16" - 1/2" x 16ths | VAC2 | \$27.33 | VAC2HEX | \$30.06 |
| 9 | 1/4" - 3/4" x 16ths | VAC3 | \$39.75 | VAC3HEX | \$43.73 |
| 12 | 3/16" - 7/8" x 16ths | VAC4 | \$44.73 | VAC4HEX | \$49.21 |
| 12 | 1/4" - 1-3/8" x 8ths | VAC5 | \$66.25 | - | - |
| | 3 Piece Set #1, 2 & 3 | VACSET | \$92.75 | - | - |
| | 5 Piece Set #1, 2, 3, 4 & 5 | VAC1-5SET | \$198.75 | - | - |

HSS TAPER SHANK DRILLS

DWDTs Series - Taper Shank Drills

Made to fit Morse tapered holders. Designed to perform in a broad range of materials in the iron and steel families. They have a black oxide surface treatment that is abrasion resistant, reduces chip welding and improves chip flow



| DWDTs Series | | | | | | DWDTs Series | | | | | |
|--------------|--------------|---------|-------------|-------------|------------|--------------|--------------|---------|-------------|--------------|------------|
| Size | Flute Length | O.A.L. | Shank Taper | Part Number | List Price | Size | Flute Length | O.A.L. | Shank Taper | Part Number | List Price |
| 1/8" | 1-7/8" | 5-1/8" | 1MT | DWDTs1/8 | \$8.14 | 1-1/64" | 6-1/2" | 11-1/8" | 3MT | DWDTs1-1/64 | \$78.12 |
| 9/64" | 2-1/8" | 5-3/8" | 1MT | DWDTs9/64 | \$9.31 | 1-1/32" | 6-1/2" | 11-1/8" | 3MT | DWDTs1-1/32 | \$73.87 |
| 5/32" | 2-1/8" | 5-3/8" | 1MT | DWDTs5/32 | \$8.67 | 1-3/64" | 6-5/8" | 11-1/4" | 3MT | DWDTs1-3/64 | \$82.09 |
| 11/64" | 2-1/2" | 5-3/4" | 1MT | DWDTs11/64 | \$10.42 | 1-1/16" | 6-5/8" | 11-1/4" | 3MT | DWDTs1-1/16 | \$73.71 |
| 3/16" | 2-1/2" | 5-3/4" | 1MT | DWDTs3/16 | \$8.41 | 1-5/64" | 6-7/8" | 12-1/2" | 4MT | DWDTs1-5/64 | \$94.77 |
| 13/64" | 2-3/4" | 6" | 1MT | DWDTs13/64 | \$9.12 | 1-3/32" | 6-7/8" | 12-1/2" | 4MT | DWDTs1-3/32 | \$91.20 |
| 7/32" | 2-3/4" | 6" | 1MT | DWDTs7/32 | \$9.12 | 1-7/64" | 7-1/8" | 12-3/4" | 4MT | DWDTs1-7/64 | \$98.42 |
| 15/64" | 2-7/8" | 6-1/8" | 1MT | DWDTs15/64 | \$10.42 | 1-1/8" | 7-1/8" | 12-3/4" | 4MT | DWDTs1-1/8 | \$90.29 |
| 1/4" | 2-7/8" | 6-1/8" | 1MT | DWDTs1/4 | \$9.31 | 1-9/64" | 7-1/4" | 12-7/8" | 4MT | DWDTs1-9/64 | \$104.28 |
| 17/64" | 3" | 6-1/4" | 1MT | DWDTs17/64 | \$10.07 | 1-5/32" | 7-1/4" | 12-7/8" | 4MT | DWDTs1-5/32 | \$99.14 |
| 9/32" | 3" | 6-1/4" | 1MT | DWDTs9/32 | \$10.07 | 1-11/64" | 7-3/8" | 13" | 4MT | DWDTs1-11/64 | \$105.49 |
| 19/64" | 3-1/8" | 6-3/8" | 1MT | DWDTs19/64 | \$12.49 | 1-3/16" | 7-3/8" | 13" | 4MT | DWDTs1-3/16 | \$98.42 |
| 5/16" | 3-1/8" | 6-3/8" | 1MT | DWDTs5/16 | \$10.03 | 1-13/64" | 7-1/2" | 13-1/8" | 4MT | DWDTs1-13/64 | \$112.88 |
| 21/64" | 3-1/4" | 6-1/2" | 1MT | DWDTs21/64 | \$13.67 | 1-7/32" | 7-1/2" | 13-1/8" | 4MT | DWDTs1-7/32 | \$111.17 |
| 11/32" | 3-1/4" | 6-1/2" | 1MT | DWDTs11/32 | \$14.90 | 1-15/64" | 7-7/8" | 13-1/2" | 4MT | DWDTs1-15/64 | \$121.22 |
| 23/64" | 3-1/2" | 6-3/4" | 1MT | DWDTs23/64 | \$15.87 | 1-1/4" | 7-7/8" | 13-1/2" | 4MT | DWDTs1-1/4 | \$113.71 |
| 3/8" | 3-1/2" | 6-3/4" | 1MT | DWDTs3/8 | \$15.87 | 1-17/64" | 8-1/2" | 14-1/8" | 4MT | DWDTs1-17/64 | \$145.77 |
| 25/64" | 3-5/8" | 7" | 1MT | DWDTs25/64 | \$16.44 | 1-9/32" | 8-1/2" | 14-1/8" | 4MT | DWDTs1-9/32 | \$144.54 |
| 13/32" | 3-5/8" | 7" | 1MT | DWDTs13/32 | \$15.87 | 1-19/64" | 8-5/8" | 14-1/4" | 4MT | DWDTs1-19/64 | \$155.18 |
| 27/64" | 3-7/8" | 7-1/4" | 1MT | DWDTs27/64 | \$17.51 | 1-5/16" | 8-5/8" | 14-1/4" | 4MT | DWDTs1-5/16 | \$135.69 |
| 7/16" | 3-7/8" | 7-1/4" | 1MT | DWDTs7/16 | \$17.59 | 1-21/64" | 8-3/4" | 14-3/8" | 4MT | DWDTs1-21/64 | \$160.41 |
| 29/64" | 4-1/8" | 7-1/2" | 1MT | DWDTs29/64 | \$19.26 | 1-11/32" | 8-3/4" | 14-3/8" | 4MT | DWDTs1-11/32 | \$155.18 |
| 15/32" | 4-1/8" | 7-1/2" | 1MT | DWDTs15/32 | \$20.16 | 1-23/64" | 8-7/8" | 14-1/2" | 4MT | DWDTs1-23/64 | \$163.91 |
| 31/64" | 4-3/8" | 8-1/4" | 2MT | DWDTs31/64 | \$21.81 | 1-3/8" | 8-7/8" | 14-1/2" | 4MT | DWDTs1-3/8 | \$145.62 |
| 1/2" | 4-3/8" | 8-1/4" | 2MT | DWDTs1/2 | \$20.80 | 1-25/64" | 9" | 14-5/8" | 4MT | DWDTs1-25/64 | \$168.57 |
| 33/64" | 4-5/8" | 8-1/2" | 2MT | DWDTs33/64 | \$26.39 | 1-13/32" | 9" | 14-5/8" | 4MT | DWDTs1-13/32 | \$168.57 |
| 17/32" | 4-5/8" | 8-1/2" | 2MT | DWDTs17/32 | \$25.84 | 1-27/64" | 9-1/8" | 14-3/4" | 4MT | DWDTs1-27/64 | \$174.42 |
| 35/64" | 4-7/8" | 8-3/4" | 2MT | DWDTs35/64 | \$27.73 | 1-7/16" | 9-1/8" | 14-3/4" | 4MT | DWDTs1-7/16 | \$156.11 |
| 9/16" | 4-7/8" | 8-3/4" | 2MT | DWDTs9/16 | \$26.39 | 1-29/64" | 9-1/4" | 14-7/8" | 4MT | DWDTs1-29/64 | \$183.40 |
| 37/64" | 4-7/8" | 8-3/4" | 2MT | DWDTs37/64 | \$29.88 | 1-15/32" | 9-1/4" | 14-7/8" | 4MT | DWDTs1-15/32 | \$181.61 |
| 19/32" | 4-7/8" | 8-3/4" | 2MT | DWDTs19/32 | \$29.52 | 1-31/64" | 9-3/8" | 15" | 4MT | DWDTs1-31/64 | \$188.27 |
| 39/64" | 4-7/8" | 8-3/4" | 2MT | DWDTs39/64 | \$30.06 | 1-1/2" | 9-3/8" | 15" | 4MT | DWDTs1-1/2 | \$172.52 |
| 5/8" | 4-7/8" | 8-3/4" | 2MT | DWDTs5/8 | \$29.08 | 1-33/64" | 9-3/8" | 16-3/8" | 5MT | DWDTs1-33/64 | \$225.43 |
| 41/64" | 5-1/8" | 9" | 2MT | DWDTs41/64 | \$33.15 | 1-17/32" | 9-3/8" | 16-3/8" | 5MT | DWDTs1-17/32 | \$225.43 |
| 21/32" | 5-1/8" | 9" | 2MT | DWDTs21/32 | \$32.11 | 1-35/64" | 9-5/8" | 16-5/8" | 5MT | DWDTs1-35/64 | \$236.25 |
| 43/64" | 5-3/8" | 9-1/4" | 2MT | DWDTs43/64 | \$35.65 | 1-9/16" | 9-5/8" | 16-5/8" | 5MT | DWDTs1-9/16 | \$224.92 |
| 11/16" | 5-3/8" | 9-1/4" | 2MT | DWDTs11/16 | \$33.09 | 1-37/64" | 9-5/8" | 16-7/8" | 5MT | DWDTs1-37/64 | \$255.17 |
| 45/64" | 5-5/8" | 9-1/2" | 2MT | DWDTs45/64 | \$37.00 | 1-19/32" | 9-7/8" | 16-7/8" | 5MT | DWDTs1-19/32 | \$255.17 |
| 23/32" | 5-5/8" | 9-1/2" | 2MT | DWDTs23/32 | \$37.00 | 1-39/64" | 10" | 17" | 5MT | DWDTs1-39/64 | \$255.17 |
| 47/64" | 5-7/8" | 9-3/4" | 2MT | DWDTs47/64 | \$40.97 | 1-5/8" | 10" | 17" | 5MT | DWDTs1-5/8 | \$247.49 |
| 3/4" | 5-7/8" | 9-3/4" | 2MT | DWDTs3/4 | \$39.33 | 1-41/64" | 10-1/8" | 17-1/8" | 5MT | DWDTs1-41/64 | \$274.37 |
| 49/64" | 6" | 9-7/8" | 2MT | DWDTs49/64 | \$47.32 | 1-21/32" | 10-1/8" | 17-1/8" | 5MT | DWDTs1-21/32 | \$274.37 |
| 25/32" | 6" | 9-7/8" | 2MT | DWDTs25/32 | \$48.30 | 1-43/64" | 10-1/8" | 17-1/8" | 5MT | DWDTs1-43/64 | \$281.28 |
| 51/64" | 6-1/8" | 10-3/4" | 3MT | DWDTs51/64 | \$51.79 | 1-11/16" | 10-1/8" | 17-1/8" | 5MT | DWDTs1-11/16 | \$267.84 |
| 13/16" | 6-1/8" | 10-3/4" | 3MT | DWDTs13/16 | \$48.61 | 1-45/64" | 10-1/8" | 17-1/8" | 5MT | DWDTs1-45/64 | \$295.19 |
| 53/64" | 6-1/8" | 10-3/4" | 3MT | DWDTs53/64 | \$57.29 | 1-23/32" | 10-1/8" | 17-1/8" | 5MT | DWDTs1-23/32 | \$295.19 |
| 27/32" | 6-1/8" | 10-3/4" | 3MT | DWDTs27/32 | \$54.21 | 1-47/64" | 10-1/8" | 17-1/8" | 5MT | DWDTs1-47/64 | \$301.26 |
| 55/64" | 6-1/8" | 10-3/4" | 3MT | DWDTs55/64 | \$59.25 | 1-3/4" | 10-1/8" | 17-1/8" | 5MT | DWDTs1-3/4 | \$291.74 |
| 7/8" | 6-1/8" | 10-3/4" | 3MT | DWDTs7/8 | \$47.78 | 1-25/32" | 10-1/8" | 17-1/8" | 5MT | DWDTs1-25/32 | \$318.26 |
| 57/64" | 6-1/8" | 10-3/4" | 3MT | DWDTs57/64 | \$57.25 | 1-13/16" | 10-1/8" | 17-1/8" | 5MT | DWDTs1-13/16 | \$310.98 |
| 29/32" | 6-1/8" | 10-3/4" | 3MT | DWDTs29/32 | \$60.58 | 1-27/32" | 10-1/8" | 17-1/8" | 5MT | DWDTs1-27/32 | \$340.93 |
| 59/64" | 6-1/8" | 10-3/4" | 3MT | DWDTs59/64 | \$61.32 | 1-7/8" | 10-3/8" | 17-3/8" | 5MT | DWDTs1-7/8 | \$325.43 |
| 15/16" | 6-1/8" | 10-3/4" | 3MT | DWDTs15/16 | \$54.03 | 1-29/32" | 10-3/8" | 17-3/8" | 5MT | DWDTs1-29/32 | \$356.52 |
| 61/64" | 6-3/8" | 11" | 3MT | DWDTs61/64 | \$59.39 | 1-15/16" | 10-3/8" | 17-3/8" | 5MT | DWDTs1-15/16 | \$367.56 |
| 31/32" | 6-3/8" | 11" | 3MT | DWDTs31/32 | \$62.52 | 1-31/32" | 10-3/8" | 17-3/8" | 5MT | DWDTs1-31/32 | \$375.57 |
| 63/64" | 6-3/8" | 11" | 3MT | DWDTs63/64 | \$66.57 | 2" | 10-3/8" | 17-3/8" | 5MT | DWDTs2INCH | \$378.12 |
| 1" | 6-3/8" | 11" | 3MT | DWDTs1INCH | \$60.61 | 2-1/32" | 10-3/8" | 17-3/8" | 5MT | DWDTs2-1/32 | \$471.64 |

HSS TAPER SHANK DRILLS

| DWDTs Series | | | | | |
|--------------|--------------|---------|-------------|--------------|------------|
| Size | Flute Length | O.A.L. | Shank Taper | Part Number | List Price |
| 2-1/16" | 10-1/4" | 17-3/8" | 5MT | DWDTs2-1/16 | \$452.80 |
| 2-3/32" | 10-1/4" | 17-3/8" | 5MT | DWDTs2-3/32 | \$502.58 |
| 2-1/8" | 10-1/4" | 17-3/8" | 5MT | DWDTs2-1/8 | \$478.88 |
| 2-5/32" | 10-1/4" | 17-3/8" | 5MT | DWDTs2-5/32 | \$536.19 |
| 2-3/16" | 10-1/4" | 17-3/8" | 5MT | DWDTs2-3/16 | \$519.69 |
| 2-7/32" | 10-1/8" | 17-3/8" | 5MT | DWDTs2-7/32 | \$565.30 |
| 2-1/4" | 10-1/8" | 17-3/8" | 5MT | DWDTs2-1/4 | \$542.63 |
| 2-5/16" | 10-1/8" | 17-3/8" | 5MT | DWDTs2-5/16 | \$608.15 |
| 2-3/8" | 11-1/4" | 17-3/8" | 5MT | DWDTs2-3/8 | \$631.97 |
| 2-7/16" | 11-1/4" | 18-3/4" | 5MT | DWDTs2-7/16 | \$760.17 |
| 2-1/2" | 11-1/4" | 18-3/4" | 5MT | DWDTs2-1/2 | \$790.58 |
| 2-9/16" | 11-7/8" | 19-1/2" | 5MT | DWDTs2-9/16 | \$816.20 |
| 2-5/8" | 11-7/8" | 19-1/2" | 5MT | DWDTs2-5/8 | \$956.14 |
| 2-11/16" | 12-3/4" | 20-3/8" | 5MT | DWDTs2-11/16 | \$1,079.01 |

| DWDTs Series | | | | | |
|--------------|--------------|---------|-------------|--------------|------------|
| Size | Flute Length | O.A.L. | Shank Taper | Part Number | List Price |
| 2-3/4" | 12-3/4" | 20-3/8" | 5MT | DWDTs2-3/4 | \$1,063.76 |
| 2-13/16" | 13-3/8" | 21-1/8" | 5MT | DWDTs2-13/16 | \$1,157.10 |
| 2-7/8" | 13-3/8" | 21-1/8" | 5MT | DWDTs2-7/8 | \$1,222.04 |
| 2-15/16" | 14" | 21-3/4" | 5MT | DWDTs2-15/16 | \$1,286.66 |
| 3" | 14" | 21-3/4" | 5MT | DWDTs3INCH | \$1,344.06 |
| 3-1/16" | 14-5/8" | 24-1/2" | 6MT | DWDTs3-1/16 | POA |
| 3-1/8" | 14-5/8" | 24-1/2" | 6MT | DWDTs3-1/8 | POA |
| 3-3/16" | 14-5/8" | 24-1/2" | 6MT | DWDTs3-3/16 | POA |
| 3-1/4" | 15-1/2" | 25-1/2" | 6MT | DWDTs3-1/4 | POA |
| 3-5/16" | 15-1/2" | 25-1/2" | 6MT | DWDTs3-5/16 | POA |
| 3-3/8" | 15-1/2" | 25-1/2" | 6MT | DWDTs3-3/8 | POA |
| 3-7/16" | 15-1/2" | 25-1/2" | 6MT | DWDTs3-7/16 | POA |
| 3-1/2" | 16-3/8" | 26-1/2" | 6MT | DWDTs3-1/2 | POA |

HSS TAPER SHANK DRILLS UNDERSIZED SHANK

| DWDTs Series | | | | | |
|--------------|--------------|---------|-------------|------------------|------------|
| Size | Flute Length | O.A.L. | Shank Taper | Part Number | List Price |
| 1MT | | | | | |
| 31/64" | 4-3/8" | 8-1/4" | 1MT | DWDTs31/64-1MT | \$31.11 |
| 1/2" | 4-3/8" | 8-1/4" | 1MT | DWDTs1/2-1MT | \$26.46 |
| 33/64" | 4-5/8" | 8-1/2" | 1MT | DWDTs33/64-1MT | \$33.81 |
| 17/32" | 4-5/8" | 8-1/2" | 1MT | DWDTs17/32-1MT | \$33.81 |
| 35/64" | 4-7/8" | 8-3/4" | 1MT | DWDTs35/64-1MT | \$35.46 |
| 2MT | | | | | |
| 51/64" | 6-1/8" | 10-3/4" | 2MT | DWDTs51/64-2MT | \$56.28 |
| 13/16" | 6-1/8" | 10-3/4" | 2MT | DWDTs13/16-2MT | \$60.21 |
| 53/64" | 6-1/8" | 10-3/4" | 2MT | DWDTs53/64-2MT | \$70.48 |
| 27/32" | 6-1/8" | 10-3/4" | 2MT | DWDTs27/32-2MT | \$66.12 |
| 55/64" | 6-1/8" | 10-3/4" | 2MT | DWDTs55/64-2MT | \$74.15 |
| 7/8" | 6-1/8" | 10-3/4" | 2MT | DWDTs7/8-2MT | \$66.18 |
| 57/64" | 6-1/8" | 10-3/4" | 2MT | DWDTs57/64-2MT | \$69.83 |
| 3MT | | | | | |
| 1-5/64" | 6-7/8" | 12-1/2" | 3MT | DWDTs1-5/64-3MT | \$118.33 |
| 1-3/32" | 6-7/8" | 12-1/2" | 3MT | DWDTs1-3/32-3MT | \$112.71 |
| 1-1/8" | 7-1/8" | 12-3/4" | 3MT | DWDTs1-1/8-3MT | \$106.11 |
| 1-9/64" | 7-1/4" | 12-7/8" | 3MT | DWDTs1-9/64-3MT | \$127.55 |
| 1-5/32" | 7-1/4" | 12-7/8" | 3MT | DWDTs1-5/32-3MT | \$127.55 |
| 1-11/64" | 7-3/8" | 13" | 3MT | DWDTs1-11/64-3MT | \$131.76 |
| 1-3/16" | 7-3/8" | 13" | 3MT | DWDTs1-3/16-3MT | \$115.37 |
| 1-13/64" | 7-1/2" | 13-1/8" | 3MT | DWDTs1-13/64-3MT | \$141.35 |
| 1-7/32" | 7-1/2" | 13-1/8" | 3MT | DWDTs1-7/32-3MT | \$139.84 |
| 1-15/64" | 7-7/8" | 13-1/2" | 3MT | DWDTs1-15/64-3MT | \$154.08 |
| 1-1/4" | 7-7/8" | 13-1/2" | 3MT | DWDTs1-1/4-3MT | \$130.97 |
| 1-5/16" | 8-5/8" | 14-1/4" | 3MT | DWDTs1-5/16-3MT | \$208.21 |
| 1-3/8" | 8-7/8" | 14-1/2" | 3MT | DWDTs1-3/8-3MT | \$221.05 |
| 1-7/16" | 9-1/8" | 14-3/4" | 3MT | DWDTs1-7/16-3MT | \$243.02 |
| 1-1/2" | 9-3/8" | 15" | 3MT | DWDTs1-1/2-3MT | \$251.91 |
| 4MT | | | | | |
| 1-17/32" | 9-3/8" | 16-3/8" | 4MT | DWDTs1-17/32-4MT | \$245.37 |
| 1-35/64" | 9-5/8" | 16-5/8" | 4MT | DWDTs1-35/64-4MT | \$264.16 |
| 1-9/16" | 9-5/8" | 16-5/8" | 4MT | DWDTs1-9/16-4MT | \$234.85 |
| 1-37/64" | 9-7/8" | 16-7/8" | 4MT | DWDTs1-37/64-4MT | \$280.68 |
| 1-19/32" | 9-7/8" | 16-7/8" | 4MT | DWDTs1-19/32-4MT | \$280.68 |
| 1-39/64" | 10" | 17" | 4MT | DWDTs1-39/64-4MT | \$291.48 |
| 1-5/8" | 10" | 17" | 4MT | DWDTs1-5/8-4MT | \$247.46 |
| 1-41/64" | 10-1/8" | 17-1/8" | 4MT | DWDTs1-41/64-4MT | \$314.18 |
| 1-11/16" | 10-1/8" | 17-1/8" | 4MT | DWDTs1-11/16-4MT | \$283.14 |
| 1-45/64" | 10-1/8" | 17-1/8" | 4MT | DWDTs1-45/64-4MT | \$335.96 |
| 1-3/4" | 10-1/8" | 17-1/8" | 4MT | DWDTs1-3/4-4MT | \$290.49 |
| 1-7/8" | 10-3/8" | 17-3/8" | 4MT | DWDTs1-7/8-4MT | \$332.78 |
| 1-15/16" | 10-3/8" | 17-3/8" | 4MT | DWDTs1-15/16-4MT | \$348.44 |
| 1-31/32" | 10-3/8" | 17-3/8" | 4MT | DWDTs1-31/32-4MT | \$401.36 |
| 2" | 10-3/8" | 17-3/8" | 4MT | DWDTs2INCH-4MT | \$363.48 |



HSS TAPER SHANK DRILLS OVERSIZED SHANK

DWDTs Series

| Size | Flute Length | O.A.L. | Shank Taper | Part Number | List Price |
|------------|--------------|---------|-------------|----------------|------------|
| 2MT | | | | | |
| 3/8" | 3-1/2" | 7-3/8" | 2MT | DWDTs3/8-2MT | \$23.13 |
| 25/64" | 3-5/8" | 7-1/2" | 2MT | DWDTs25/64-2MT | \$25.73 |
| 13/32" | 3-5/8" | 7-1/2" | 2MT | DWDTs13/32-2MT | \$25.73 |
| 27/64" | 3-7/8" | 7-3/4" | 2MT | DWDTs27/64-2MT | \$26.63 |
| 7/16" | 3-7/8" | 7-3/4" | 2MT | DWDTs7/16-2MT | \$25.65 |
| 29/64" | 4-1/8" | 8" | 2MT | DWDTs29/64-2MT | \$28.58 |
| 15/32" | 4-1/8" | 8" | 2MT | DWDTs15/32-2MT | \$30.76 |
| 3MT | | | | | |
| 21/32" | 5-1/8" | 9-3/4" | 3MT | DWDTs21/32-3MT | \$47.08 |
| 43/64" | 5-3/8" | 10" | 3MT | DWDTs43/64-3MT | \$49.86 |
| 45/64" | 5-5/8" | 10-1/4" | 3MT | DWDTs45/64-3MT | \$53.89 |
| 23/32" | 5-5/8" | 10-1/4" | 3MT | DWDTs23/32-3MT | \$55.28 |
| 47/64" | 5-7/8" | 10-1/2" | 3MT | DWDTs47/64-3MT | \$54.56 |
| 3/4" | 5-7/8" | 10-1/2" | 3MT | DWDTs3/4-3MT | \$58.96 |
| 25/32" | 6" | 10-5/8" | 3MT | DWDTs25/32-3MT | \$65.78 |

HSS METRIC TAPER SHANK DRILLS



DWDTsMM Series

| Size | Flute Length | O.A.L. | Shank Taper | Part Number | List Price |
|-------|--------------|---------|-------------|--------------|------------|
| 5.00 | 2-3/4" | 6" | 1MT | DWDTsMM5.00 | \$9.71 |
| 5.50 | 2-3/4" | 6" | 1MT | DWDTsMM5.50 | \$9.71 |
| 6.00 | 2-7/8" | 6-1/8" | 1MT | DWDTsMM6.00 | \$10.21 |
| 6.50 | 2-7/8" | 6-1/8" | 1MT | DWDTsMM6.50 | \$10.86 |
| 7.00 | 3" | 6-1/4" | 1MT | DWDTsMM7.00 | \$10.86 |
| 7.50 | 3-1/8" | 6-3/8" | 1MT | DWDTsMM7.50 | \$11.09 |
| 8.00 | 3-1/8" | 6-3/8" | 1MT | DWDTsMM8.00 | \$15.30 |
| 8.50 | 3-1/4" | 6-1/2" | 1MT | DWDTsMM8.50 | \$16.21 |
| 9.00 | 3-1/2" | 6-3/4" | 1MT | DWDTsMM9.00 | \$17.89 |
| 9.50 | 3-1/2" | 6-3/4" | 1MT | DWDTsMM9.50 | \$17.89 |
| 10.00 | 3-5/8" | 7" | 1MT | DWDTsMM10.00 | \$17.89 |
| 10.50 | 3-7/8" | 7-1/4" | 1MT | DWDTsMM10.50 | \$19.08 |
| 11.00 | 3-7/8" | 7-1/4" | 1MT | DWDTsMM11.00 | \$19.34 |
| 11.50 | 4-1/8" | 7-1/2" | 1MT | DWDTsMM11.50 | \$21.25 |
| 12.00 | 4-1/8" | 7-1/2" | 2MT | DWDTsMM12.00 | \$24.07 |
| 12.50 | 4-3/8" | 8-1/4" | 2MT | DWDTsMM12.50 | \$24.07 |
| 13.00 | 4-5/8" | 8-1/2" | 2MT | DWDTsMM13.00 | \$26.93 |
| 13.50 | 4-5/8" | 8-1/2" | 2MT | DWDTsMM13.50 | \$29.38 |
| 14.00 | 4-7/8" | 8-3/4" | 2MT | DWDTsMM14.00 | \$29.38 |
| 14.50 | 4-7/8" | 8-3/4" | 2MT | DWDTsMM14.50 | \$31.28 |
| 15.00 | 4-7/8" | 8-3/4" | 2MT | DWDTsMM15.00 | \$31.28 |
| 15.50 | 4-7/8" | 8-3/4" | 2MT | DWDTsMM15.50 | \$33.49 |
| 16.00 | 4-7/8" | 8-3/4" | 2MT | DWDTsMM16.00 | \$37.00 |
| 16.50 | 5-1/8" | 9" | 2MT | DWDTsMM16.50 | \$37.00 |
| 17.00 | 5-3/8" | 9-1/4" | 2MT | DWDTsMM17.00 | \$38.94 |
| 17.50 | 5-3/8" | 9-1/4" | 2MT | DWDTsMM17.50 | \$41.28 |
| 18.00 | 5-5/8" | 9-1/2" | 2MT | DWDTsMM18.00 | \$41.28 |
| 18.50 | 5-7/8" | 9-3/4" | 2MT | DWDTsMM18.50 | \$45.41 |
| 19.00 | 5-7/8" | 9-3/4" | 2MT | DWDTsMM19.00 | \$45.41 |
| 19.50 | 6" | 9-7/8" | 2MT | DWDTsMM19.50 | \$54.26 |
| 20.00 | 6" | 9-7/8" | 3MT | DWDTsMM20.00 | \$56.16 |
| 20.50 | 6-1/8" | 10-3/4" | 3MT | DWDTsMM20.50 | \$56.16 |
| 21.00 | 6-1/8" | 10-3/4" | 3MT | DWDTsMM21.00 | \$62.36 |
| 21.50 | 6-1/8" | 10-3/4" | 3MT | DWDTsMM21.50 | \$62.36 |
| 22.00 | 6-1/8" | 10-3/4" | 3MT | DWDTsMM22.00 | \$62.36 |
| 22.50 | 6-1/8" | 10-3/4" | 3MT | DWDTsMM22.50 | \$62.60 |
| 23.00 | 6-1/8" | 10-3/4" | 3MT | DWDTsMM23.00 | \$62.60 |
| 23.50 | 6-1/8" | 10-3/4" | 3MT | DWDTsMM23.50 | \$62.60 |
| 24.00 | 6-1/8" | 10-3/4" | 3MT | DWDTsMM24.00 | \$68.08 |

DWDTsMM Series

| Size | Flute Length | O.A.L. | Shank Taper | Part Number | List Price |
|-------|--------------|---------|-------------|--------------|------------|
| 24.50 | 6-3/8" | 11" | 3MT | DWDTsMM24.50 | \$68.08 |
| 25.00 | 6-3/8" | 11" | 3MT | DWDTsMM25.00 | \$72.79 |
| 25.50 | 6-3/8" | 11" | 3MT | DWDTsMM25.50 | \$76.15 |
| 26.00 | 6-1/2" | 11-1/8" | 3MT | DWDTsMM26.00 | \$76.15 |
| 26.50 | 6-5/8" | 11-1/4" | 3MT | DWDTsMM26.50 | \$84.59 |
| 27.00 | 6-5/8" | 11-1/4" | 3MT | DWDTsMM27.00 | \$94.03 |
| 27.50 | 6-7/8" | 12-1/2" | 4MT | DWDTsMM27.50 | \$94.03 |
| 28.00 | 7-1/8" | 12-3/4" | 4MT | DWDTsMM28.00 | \$98.69 |
| 28.50 | 7-1/8" | 12-3/4" | 4MT | DWDTsMM28.50 | \$98.69 |
| 29.00 | 7-1/4" | 12-7/8" | 4MT | DWDTsMM29.00 | \$102.27 |
| 29.50 | 7-1/4" | 12-7/8" | 4MT | DWDTsMM29.50 | \$107.54 |
| 30.00 | 7-3/8" | 13" | 4MT | DWDTsMM30.00 | \$107.54 |
| 30.50 | 7-1/2" | 13-1/8" | 4MT | DWDTsMM30.50 | \$116.39 |
| 31.00 | 7-1/2" | 13-1/8" | 4MT | DWDTsMM31.00 | \$121.01 |
| 31.50 | 7-7/8" | 13-1/2" | 4MT | DWDTsMM31.50 | \$121.01 |
| 32.00 | 8-1/2" | 14-1/8" | 4MT | DWDTsMM32.00 | \$145.11 |
| 32.50 | 8-1/2" | 14-1/8" | 4MT | DWDTsMM32.50 | \$145.11 |
| 33.00 | 8-5/8" | 14-1/4" | 4MT | DWDTsMM33.00 | \$147.42 |
| 33.50 | 8-5/8" | 14-1/4" | 4MT | DWDTsMM33.50 | \$155.79 |
| 34.00 | 8-3/4" | 14-3/8" | 4MT | DWDTsMM34.00 | \$155.79 |
| 34.50 | 8-7/8" | 14-1/2" | 4MT | DWDTsMM34.50 | \$164.56 |
| 35.00 | 8-7/8" | 14-1/2" | 4MT | DWDTsMM35.00 | \$169.22 |
| 35.50 | 9" | 14-5/8" | 4MT | DWDTsMM35.50 | \$169.22 |
| 36.00 | 9-1/8" | 14-3/4" | 4MT | DWDTsMM36.00 | \$170.95 |
| 37.00 | 9-1/8" | 14-3/4" | 4MT | DWDTsMM37.00 | \$181.76 |
| 38.00 | 9-3/8" | 15" | 4MT | DWDTsMM38.00 | \$181.76 |
| 39.00 | 9-3/8" | 16-3/8" | 5MT | DWDTsMM39.00 | \$220.12 |
| 40.00 | 9-7/8" | 16-7/8" | 5MT | DWDTsMM40.00 | \$237.77 |
| 41.00 | 10" | 17" | 5MT | DWDTsMM41.00 | \$237.77 |
| 42.00 | 10-1/8" | 17-1/8" | 5MT | DWDTsMM42.00 | \$255.69 |
| 43.00 | 10-1/8" | 17-1/8" | 5MT | DWDTsMM43.00 | \$275.02 |
| 44.00 | 10-1/8" | 17-1/8" | 5MT | DWDTsMM44.00 | \$280.69 |
| 45.00 | 10-1/8" | 17-1/8" | 5MT | DWDTsMM45.00 | \$291.59 |
| 46.00 | 10-1/8" | 17-1/8" | 5MT | DWDTsMM46.00 | \$299.15 |
| 47.00 | 10-1/8" | 17-1/8" | 5MT | DWDTsMM47.00 | \$313.06 |
| 48.00 | 10-3/8" | 17-3/8" | 5MT | DWDTsMM48.00 | \$326.64 |
| 49.00 | 10-3/8" | 17-3/8" | 5MT | DWDTsMM49.00 | \$336.76 |
| 50.00 | 10-3/8" | 17-3/8" | 5MT | DWDTsMM50.00 | \$344.12 |
| 51.00 | 10-3/8" | 17-3/8" | 5MT | DWDTsMM51.00 | \$367.31 |

TAPER SHANK DRILLS

DWDTSCT Series - Carbide Tipped Taper Shank Drills

Features heavy-duty construction and heat treated body for optimum wear resistance and support of the carbide tip. Designed for drilling in cast iron and non-ferrous metals. NOT RECOMMENDED FOR DRILLING STEEL.



DWDTSCT Series

| Size | Flute Length | O.A.L. | Shank Taper | Part Number | List Price |
|--------|--------------|--------|-------------|--------------|------------|
| 1/2" | 4-3/8" | 8-1/4" | 2MT | DWDTSCT1/2 | \$175.30 |
| 33/64" | 4-5/8" | 8-1/2" | 2MT | DWDTSCT33/64 | \$190.38 |
| 17/32" | 4-5/8" | 8-1/2" | 2MT | DWDTSCT17/32 | \$183.58 |
| 35/64" | 4-7/8" | 8-3/4" | 2MT | DWDTSCT35/64 | \$192.97 |
| 9/16" | 4-7/8" | 8-3/4" | 2MT | DWDTSCT9/16 | \$186.08 |
| 37/64" | 4-7/8" | 8-3/4" | 2MT | DWDTSCT37/64 | \$201.95 |
| 19/32" | 4-7/8" | 8-3/4" | 2MT | DWDTSCT19/32 | \$194.78 |
| 39/64" | 4-7/8" | 8-3/4" | 2MT | DWDTSCT39/64 | \$229.84 |
| 5/8" | 4-7/8" | 8-3/4" | 2MT | DWDTSCT5/8 | \$221.60 |
| 41/64" | 5-1/8" | 9" | 2MT | DWDTSCT41/64 | \$243.67 |
| 21/32" | 5-1/8" | 9" | 2MT | DWDTSCT21/32 | \$234.97 |
| 43/64" | 5-3/8" | 9-1/4" | 2MT | DWDTSCT43/64 | \$236.10 |
| 11/16" | 5-3/8" | 9-1/4" | 2MT | DWDTSCT11/16 | \$227.65 |
| 45/64" | 5-5/8" | 9-1/2" | 2MT | DWDTSCT45/64 | \$242.45 |
| 23/32" | 5-5/8" | 9-1/2" | 2MT | DWDTSCT23/32 | \$233.81 |
| 47/64" | 5-7/8" | 9-3/4" | 2MT | DWDTSCT47/64 | \$247.48 |
| 3/4" | 5-7/8" | 9-3/4" | 2MT | DWDTSCT3/4 | \$238.65 |

DWDTSCT Series

| Size | Flute Length | O.A.L. | Shank Taper | Part Number | List Price |
|--------|--------------|---------|-------------|--------------|------------|
| 49/64" | 6" | 9-7/8" | 2MT | DWDTSCT49/64 | \$258.62 |
| 25/32" | 6" | 9-7/8" | 2MT | DWDTSCT25/32 | \$258.62 |
| 51/64" | 6-1/8" | 10-3/4" | 3MT | DWDTSCT51/64 | \$261.17 |
| 13/16" | 6-1/8" | 10-3/4" | 3MT | DWDTSCT13/16 | \$261.17 |
| 53/64" | 6-1/8" | 10-3/4" | 3MT | DWDTSCT53/64 | \$267.13 |
| 27/32" | 6-1/8" | 10-3/4" | 3MT | DWDTSCT27/32 | \$267.13 |
| 55/64" | 6-1/8" | 10-3/4" | 3MT | DWDTSCT55/64 | \$283.41 |
| 7/8" | 6-1/8" | 10-3/4" | 3MT | DWDTSCT7/8 | \$283.41 |
| 57/64" | 6-1/8" | 10-3/4" | 3MT | DWDTSCT57/64 | \$304.96 |
| 29/32" | 6-1/8" | 10-3/4" | 3MT | DWDTSCT29/32 | \$304.96 |
| 59/64" | 6-1/8" | 10-3/4" | 3MT | DWDTSCT59/64 | \$303.57 |
| 15/16" | 6-1/8" | 10-3/4" | 3MT | DWDTSCT15/16 | \$303.57 |
| 61/64" | 6-3/8" | 11" | 3MT | DWDTSCT61/64 | \$325.76 |
| 31/32" | 6-3/8" | 11" | 3MT | DWDTSCT31/32 | \$325.76 |
| 63/64" | 6-3/8" | 11" | 3MT | DWDTSCT63/64 | \$320.52 |
| 1" | 6-3/8" | 11" | 3MT | DWDTSCT1INCH | \$320.52 |

DWDTSCO Series - Cobalt Taper Shank Drills

Made of heat resistant cobalt. Engineered with heavy-duty construction to perform well in tough, hard-to-machine materials. Notched Point.



DWDTSCO Series

| Size | Flute Length | O.A.L. | Shank Taper | Part Number | List Price |
|--------|--------------|--------|-------------|--------------|------------|
| 1/4" | 2-7/8" | 6-1/8" | 1MT | DWDTSCO1/4 | \$58.68 |
| 5/16" | 3-1/8" | 6-3/8" | 1MT | DWDTSCO5/16 | \$62.39 |
| 3/8" | 3-1/2" | 6-3/4" | 1MT | DWDTSCO3/8 | \$89.64 |
| 7/16" | 3-7/8" | 7-1/4" | 1MT | DWDTSCO7/16 | \$102.66 |
| 1/2" | 4-3/8" | 8-1/4" | 2MT | DWDTSCO1/2 | \$113.81 |
| 17/32" | 4-5/8" | 8-1/2" | 2MT | DWDTSCO17/32 | \$129.13 |
| 9/16" | 4-7/8" | 8-3/4" | 2MT | DWDTSCO9/16 | \$135.07 |
| 19/32" | 4-7/8" | 8-3/4" | 2MT | DWDTSCO19/32 | \$150.24 |
| 5/8" | 4-7/8" | 8-3/4" | 2MT | DWDTSCO5/8 | \$153.65 |
| 11/16" | 5-3/8" | 9-1/4" | 2MT | DWDTSCO11/16 | \$187.79 |
| 3/4" | 5-7/8" | 9-3/4" | 2MT | DWDTSCO3/4 | \$217.69 |

DWDTSCO Series

| Size | Flute Length | O.A.L. | Shank Taper | Part Number | List Price |
|---------|--------------|---------|-------------|---------------|------------|
| 13/16" | 6-1/8" | 10-3/4" | 3MT | DWDTSCO13/16 | \$236.43 |
| 7/8" | 6-1/8" | 10-3/4" | 3MT | DWDTSCO7/8 | \$275.33 |
| 15/16" | 6-1/8" | 10-3/4" | 3MT | DWDTSCO15/16 | \$323.60 |
| 1" | 6-3/8" | 11" | 3MT | DWDTSCO1INCH | \$366.29 |
| 1-1/8" | 7-1/8" | 12-3/4" | 4MT | DWDTSCO1-1/8 | \$513.38 |
| 1-3/16" | 7-3/8" | 13" | 4MT | DWDTSCO1-3/16 | \$581.96 |
| 1-1/4" | 7-7/8" | 13-1/2" | 4MT | DWDTSCO1-1/4 | \$675.83 |
| 1-5/16" | 8-5/8" | 14-1/4" | 4MT | DWDTSCO1-5/16 | \$791.77 |
| 1-3/8" | 8-7/8" | 14-1/2" | 4MT | DWDTSCO1-3/8 | \$849.34 |
| 1-1/2" | 9-3/8" | 15" | 4MT | DWDTSCO1-1/2 | \$985.77 |

TAPER LENGTH DRILLS

DWDTL Series - HSS Taper Length Drills

Designed for general purpose drilling where a length longer than Jobber Length is required. Performs under a variety of normal conditions and in a broad range of materials in the iron and steel families.

DWDTLCO Series - Cobalt Taper Length Drills

Made of heat resistant cobalt. Features 135° heavy-duty construction for drilling in tough alloy steels, forgings, and castings.

DWDTLCT Series - Carbide Tipped Taper Length Drills

Features heavy-duty construction and heat treated body for optimum wear resistance and support of the carbide tip. Particularly advantageous when length longer than Jobber Length is required. Used in production drilling of cast iron, non-ferrous metals, and many composites. Tanged shank allows for use with ASA split sleeve drivers. NOT RECOMMENDED FOR DRILLING STEEL.

| | | | | DWDTL Series | | DWDTLCO Series | | DWDTLCT Series | |
|--------|-------------|--------------|--------|--------------|------------|----------------|------------|----------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 1/64" | .0156 | 5/16" | 1-1/2" | DWDTL1/64 | \$9.92 | - | - | - | - |
| 1/32" | .0312 | 3/4" | 2" | DWDTL1/32 | \$7.22 | - | - | - | - |
| 3/64" | .0469 | 1-1/8" | 2-1/4" | DWDTL3/64 | \$3.34 | - | - | - | - |
| 1/16" | .0625 | 1-3/4" | 3" | DWDTL1/16 | \$3.61 | DWDTLCO1/16 | \$11.23 | - | - |
| 5/64" | .0781 | 2" | 3-3/4" | DWDTL5/64 | \$4.15 | DWDTLCO5/64 | \$13.08 | - | - |
| 3/32" | .0938 | 2-1/4" | 4-1/4" | DWDTL3/32 | \$5.05 | DWDTLCO3/32 | \$15.65 | - | - |
| 7/64" | .1094 | 2-1/2" | 4-5/8" | DWDTL7/64 | \$6.29 | DWDTLCO7/64 | \$19.69 | - | - |
| 1/8" | .1250 | 2-3/4" | 5-1/8" | DWDTL1/8 | \$6.51 | DWDTLCO1/8 | \$20.23 | DWDTLCT1/8 | \$43.44 |
| 9/64" | .1406 | 3" | 5-3/8" | DWDTL9/64 | \$7.89 | DWDTLCO9/64 | \$24.63 | DWDTLCT9/64 | \$43.44 |
| 5/32" | .1562 | 3" | 5-3/8" | DWDTL5/32 | \$7.89 | DWDTLCO5/32 | \$24.63 | DWDTLCT5/32 | \$45.77 |
| 11/64" | .1719 | 3-3/8" | 5-3/4" | DWDTL11/64 | \$7.89 | DWDTLCO11/64 | \$24.63 | DWDTLCT11/64 | \$46.59 |
| 3/16" | .1875 | 3-3/8" | 5-3/4" | DWDTL3/16 | \$7.89 | DWDTLCO3/16 | \$24.63 | DWDTLCT3/16 | \$46.59 |
| 13/64" | .2031 | 3-5/8" | 6" | DWDTL13/64 | \$9.20 | DWDTLCO13/64 | \$28.76 | DWDTLCT13/64 | \$49.24 |
| 7/32" | .2188 | 3-5/8" | 6" | DWDTL7/32 | \$9.20 | DWDTLCO7/32 | \$28.76 | DWDTLCT7/32 | \$49.24 |
| 15/64" | .2344 | 3-3/4" | 6-1/8" | DWDTL15/64 | \$9.20 | DWDTLCO15/64 | \$29.81 | DWDTLCT15/64 | \$56.65 |
| 1/4" | .2500 | 3-3/4" | 6-1/8" | DWDTL1/4 | \$9.20 | DWDTLCO1/4 | \$28.76 | DWDTLCT1/4 | \$55.59 |
| 17/64" | .2656 | 3-7/8" | 6-1/4" | DWDTL17/64 | \$11.26 | DWDTLCO17/64 | \$36.12 | DWDTLCT17/64 | \$63.53 |
| 9/32" | .2812 | 3-7/8" | 6-1/4" | DWDTL9/32 | \$11.26 | DWDTLCO9/32 | \$34.83 | DWDTLCT9/32 | \$62.38 |
| 19/64" | .2969 | 4" | 6-3/8" | DWDTL19/64 | \$11.41 | DWDTLCO19/64 | \$36.12 | DWDTLCT19/64 | \$68.58 |
| 5/16" | .3125 | 4" | 6-3/8" | DWDTL5/16 | \$11.41 | DWDTLCO5/16 | \$34.83 | DWDTLCT5/16 | \$67.35 |
| 21/64" | .3281 | 4-1/8" | 6-1/2" | DWDTL21/64 | \$13.08 | DWDTLCO21/64 | \$41.56 | DWDTLCT21/64 | \$75.54 |
| 11/32" | .3438 | 4-1/8" | 6-1/2" | DWDTL11/32 | \$13.08 | DWDTLCO11/32 | \$40.05 | DWDTLCT11/32 | \$74.17 |
| 23/64" | .3594 | 4-1/4" | 6-3/4" | DWDTL23/64 | \$15.39 | DWDTLCO23/64 | \$49.01 | DWDTLCT23/64 | \$82.85 |
| 3/8" | .3750 | 4-1/4" | 6-3/4" | DWDTL3/8 | \$15.39 | DWDTLCO3/8 | \$47.24 | DWDTLCT3/8 | \$81.35 |
| 25/64" | .3906 | 4-3/8" | 7" | DWDTL25/64 | \$16.07 | DWDTLCO25/64 | \$50.92 | DWDTLCT25/64 | \$91.24 |
| 13/32" | .4062 | 4-3/8" | 7" | DWDTL13/32 | \$16.07 | DWDTLCO13/32 | \$49.11 | DWDTLCT13/32 | \$89.57 |
| 27/64" | .4219 | 4-5/8" | 7-1/4" | DWDTL27/64 | \$17.34 | DWDTLCO27/64 | \$55.24 | DWDTLCT27/64 | \$105.03 |
| 7/16" | .4375 | 4-5/8" | 7-1/4" | DWDTL7/16 | \$17.69 | DWDTLCO7/16 | \$54.35 | DWDTLCT7/16 | \$103.14 |
| 29/64" | .4531 | 4-3/4" | 7-1/2" | DWDTL29/64 | \$19.61 | DWDTLCO29/64 | \$62.61 | DWDTLCT29/64 | \$116.02 |
| 15/32" | .4688 | 4-3/4" | 7-1/2" | DWDTL15/32 | \$20.82 | DWDTLCO15/32 | \$63.74 | DWDTLCT15/32 | \$113.89 |
| 31/64" | .4844 | 4-3/4" | 7-3/4" | DWDTL31/64 | \$21.74 | DWDTLCO31/64 | \$69.29 | DWDTLCT31/64 | \$121.53 |
| 1/2" | .5000 | 4-3/4" | 7-3/4" | DWDTL1/2 | \$21.74 | DWDTLCO1/2 | \$66.83 | DWDTLCT1/2 | \$119.31 |
| 33/64" | .5156 | 4-3/4" | 8" | DWDTL33/64 | \$33.46 | DWDTLCO33/64 | \$88.98 | DWDTLCT33/64 | \$156.58 |
| 17/32" | .5312 | 4-3/4" | 8" | DWDTL17/32 | \$33.46 | DWDTLCO17/32 | \$85.82 | DWDTLCT17/32 | \$154.47 |
| 35/64" | .5469 | 4-7/8" | 8-1/4" | DWDTL35/64 | \$35.17 | DWDTLCO35/64 | \$96.15 | DWDTLCT35/64 | \$152.62 |
| 9/16" | .5625 | 4-7/8" | 8-1/4" | DWDTL9/16 | \$35.17 | DWDTLCO9/16 | \$92.72 | DWDTLCT9/16 | \$155.99 |
| 37/64" | .5781 | 4-7/8" | 8-3/4" | DWDTL37/64 | \$41.11 | DWDTLCO37/64 | \$112.27 | DWDTLCT37/64 | \$170.72 |
| 19/32" | .5938 | 4-7/8" | 8-3/4" | DWDTL19/32 | \$41.11 | DWDTLCO19/32 | \$108.23 | DWDTLCT19/32 | \$167.73 |
| 39/64" | .6094 | 4-7/8" | 8-3/4" | DWDTL39/64 | \$42.55 | DWDTLCO39/64 | \$112.27 | DWDTLCT39/64 | \$196.69 |
| 5/8" | .6250 | 4-7/8" | 8-3/4" | DWDTL5/8 | \$42.55 | DWDTLCO5/8 | \$108.23 | DWDTLCT5/8 | \$189.66 |
| 41/64" | .6406 | 5-1/8" | 9" | DWDTL41/64 | \$49.84 | DWDTLCO41/64 | \$123.84 | DWDTLCT41/64 | \$204.02 |
| 21/32" | .6562 | 5-3/8" | 9" | DWDTL21/32 | \$48.49 | DWDTLCO21/32 | \$119.40 | DWDTLCT21/32 | \$196.72 |
| 43/64" | .6719 | 5-3/8" | 9-1/4" | DWDTL43/64 | \$58.53 | DWDTLCO43/64 | \$144.83 | DWDTLCT43/64 | \$207.53 |
| 11/16" | .6875 | 5-3/8" | 9-1/4" | DWDTL11/16 | \$61.01 | DWDTLCO11/16 | \$139.67 | DWDTLCT11/16 | \$200.11 |
| 45/64" | .7031 | 5-5/8" | 9-1/2" | DWDTL45/64 | \$61.63 | DWDTLCO45/64 | \$158.53 | DWDTLCT45/64 | \$209.81 |
| 23/32" | .7188 | 5-5/8" | 9-1/2" | DWDTL23/32 | \$59.98 | DWDTLCO23/32 | \$152.84 | DWDTLCT23/32 | \$204.48 |
| 47/64" | .7344 | 5-7/8" | 9-3/4" | DWDTL47/64 | \$66.28 | DWDTLCO47/64 | \$167.78 | DWDTLCT47/64 | \$213.32 |
| 3/4" | .7500 | 5-7/8" | 9-3/4" | DWDTL3/4 | \$64.50 | DWDTLCO3/4 | \$161.79 | DWDTLCT3/4 | \$208.99 |
| 49/64" | .7656 | 6" | 9-7/8" | DWDTL49/64 | \$74.75 | DWDTLCO49/64 | \$197.53 | DWDTLCT49/64 | \$226.23 |
| 25/32" | .7812 | 6" | 9-7/8" | DWDTL25/32 | \$72.73 | DWDTLCO25/32 | \$190.49 | DWDTLCT25/32 | \$227.33 |

TAPER LENGTH DRILLS

| | | | | DWDTL Series | | DWDTLCO Series | | DWDTLCT Series | |
|--------|-------------|--------------|---------|--------------|------------|----------------|------------|----------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 51/64" | .7969 | 6-1/8" | 10" | DWDTL51/64 | \$80.40 | DWDTLCO51/64 | \$212.33 | DWDTLCT51/64 | \$227.33 |
| 13/16" | .8125 | 6-1/8" | 10" | DWDTL13/16 | \$78.22 | DWDTLCO13/16 | \$204.76 | DWDTLCT13/16 | \$227.33 |
| 53/64" | .8281 | 6-1/8" | 10" | DWDTL53/64 | \$84.60 | DWDTLCO53/64 | \$219.77 | DWDTLCT53/64 | \$227.33 |
| 27/32" | .8438 | 6-1/8" | 10" | DWDTL27/32 | \$82.32 | DWDTLCO27/32 | \$211.94 | DWDTLCT27/32 | \$227.33 |
| 55/64" | .8594 | 6-1/8" | 10" | DWDTL55/64 | \$88.88 | DWDTLCO55/64 | \$230.92 | DWDTLCT55/64 | \$240.29 |
| 7/8" | .8750 | 6-1/8" | 10" | DWDTL7/8 | \$86.47 | DWDTLCO7/8 | \$222.68 | DWDTLCT7/8 | \$240.29 |
| 57/64" | .8906 | 6-1/8" | 10" | DWDTL57/64 | \$92.60 | DWDTLCO57/64 | \$240.54 | DWDTLCT57/64 | \$248.63 |
| 29/32" | .9062 | 6-1/8" | 10" | DWDTL29/32 | \$90.10 | DWDTLCO29/32 | \$231.96 | DWDTLCT29/32 | \$248.63 |
| 59/64" | .9219 | 6-1/8" | 10-3/4" | DWDTL59/64 | \$100.77 | DWDTLCO59/64 | \$261.74 | DWDTLCT59/64 | \$252.19 |
| 15/16" | .9375 | 6-1/8" | 10-3/4" | DWDTL15/16 | \$98.03 | DWDTLCO15/16 | \$252.41 | DWDTLCT15/16 | \$252.19 |
| 61/64" | .9531 | 6-3/8" | 11" | DWDTL61/64 | \$111.17 | DWDTLCO61/64 | \$288.92 | DWDTLCT61/64 | \$264.13 |
| 31/32" | .9688 | 6-3/8" | 11" | DWDTL31/32 | \$108.15 | DWDTLCO31/32 | \$278.61 | DWDTLCT31/32 | \$264.13 |
| 63/64" | .9844 | 6-3/8" | 11" | DWDTL63/64 | \$115.89 | DWDTLCO63/64 | \$301.16 | DWDTLCT63/64 | \$272.41 |
| 1" | 1.0000 | 6-3/8" | 11" | DWDTL1INCH | \$112.74 | DWDTLCO1INCH | \$290.38 | DWDTLCT1INCH | \$272.41 |
| 1-1/8" | 1.1250 | 7-1/8" | 11-3/4" | DWDTL1-1/8 | \$169.58 | | | | |
| 1-1/4" | 1.2500 | 7-7/8" | 12-1/2" | DWDTL1-1/4 | \$212.87 | | | | |
| 1-3/8" | 1.3750 | 8-7/8" | 14-1/2" | DWDTL1-3/8 | \$272.41 | | | | |
| 1-1/2" | 1.5000 | 9-3/8" | 15" | DWDTL1-1/2 | \$332.76 | | | | |

WIRE GAUGE SIZES



| DWDTL Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| 1 | .2280 | 3-3/4" | 6-1/8" | DWDTL1 | \$12.70 |
| 2 | .2210 | 3-5/8" | 6" | DWDTL2 | \$12.70 |
| 3 | .2130 | 3-5/8" | 6" | DWDTL3 | \$12.24 |
| 4 | .2090 | 3-5/8" | 6" | DWDTL4 | \$12.24 |
| 5 | .2055 | 3-5/8" | 6" | DWDTL5 | \$12.24 |
| 6 | .2040 | 3-5/8" | 6" | DWDTL6 | \$12.24 |
| 7 | .2010 | 3-5/8" | 6" | DWDTL7 | \$12.24 |
| 8 | .1990 | 3-5/8" | 6" | DWDTL8 | \$12.24 |
| 9 | .1960 | 3-5/8" | 6" | DWDTL9 | \$12.24 |
| 10 | .1935 | 3-5/8" | 6" | DWDTL10 | \$12.24 |
| 11 | .1910 | 3-5/8" | 6" | DWDTL11 | \$12.24 |
| 12 | .1890 | 3-5/8" | 6" | DWDTL12 | \$12.24 |
| 13 | .1850 | 3-3/8" | 5-3/4" | DWDTL13 | \$11.13 |
| 14 | .1820 | 3-3/8" | 5-3/4" | DWDTL14 | \$11.13 |
| 15 | .1800 | 3-3/8" | 5-3/4" | DWDTL15 | \$11.13 |
| 16 | .1770 | 3-3/8" | 5-3/4" | DWDTL16 | \$11.13 |
| 17 | .1730 | 3-3/8" | 5-3/4" | DWDTL17 | \$11.13 |
| 18 | .1695 | 3-3/8" | 5-3/4" | DWDTL18 | \$11.13 |
| 19 | .1660 | 3-3/8" | 5-3/4" | DWDTL19 | \$11.13 |
| 20 | .1610 | 3-3/8" | 5-3/4" | DWDTL20 | \$11.13 |
| 21 | .1590 | 3-3/8" | 5-3/4" | DWDTL21 | \$11.13 |
| 22 | .1570 | 3-3/8" | 5-3/4" | DWDTL22 | \$11.13 |
| 23 | .1540 | 3" | 5-3/8" | DWDTL23 | \$11.13 |
| 24 | .1520 | 3" | 5-3/8" | DWDTL24 | \$11.13 |
| 25 | .1495 | 3" | 5-3/8" | DWDTL25 | \$11.13 |
| 26 | .1470 | 3" | 5-3/8" | DWDTL26 | \$11.13 |
| 27 | .1440 | 3" | 5-3/8" | DWDTL27 | \$11.13 |
| 28 | .1405 | 3" | 5-3/8" | DWDTL28 | \$11.13 |
| 29 | .1360 | 3" | 5-3/8" | DWDTL29 | \$11.13 |
| 30 | .1285 | 3" | 5-3/8" | DWDTL30 | \$11.13 |
| 31 | .1200 | 2-3/4" | 5-1/8" | DWDTL31 | \$10.91 |
| 32 | .1160 | 2-3/4" | 5-1/8" | DWDTL32 | \$10.91 |
| 33 | .1130 | 2-3/4" | 5-1/8" | DWDTL33 | \$10.91 |
| 34 | .1110 | 2-3/4" | 5-1/8" | DWDTL34 | \$10.91 |
| 35 | .1100 | 2-3/4" | 5-1/8" | DWDTL35 | \$10.91 |
| 36 | .1065 | 2-1/2" | 4-5/8" | DWDTL36 | \$8.18 |
| 37 | .1040 | 2-1/2" | 4-5/8" | DWDTL37 | \$8.18 |
| 38 | .1015 | 2-1/2" | 4-5/8" | DWDTL38 | \$8.18 |
| 39 | .0995 | 2-1/2" | 4-5/8" | DWDTL39 | \$7.13 |
| 40 | .0980 | 2-1/2" | 4-5/8" | DWDTL40 | \$7.13 |

| DWDTL Series | | | | | |
|--------------|-------------|--------------|--------|-------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
| 41 | .0960 | 2-1/2" | 4-5/8" | DWDTL41 | \$7.13 |
| 42 | .0935 | 2-1/4" | 4-1/4" | DWDTL42 | \$6.02 |
| 43 | .0890 | 2-1/4" | 4-1/4" | DWDTL43 | \$6.02 |
| 44 | .0860 | 2-1/4" | 4-1/4" | DWDTL44 | \$6.02 |
| 45 | .0820 | 2-1/4" | 4-1/4" | DWDTL45 | \$6.02 |
| 46 | .0810 | 2-1/4" | 4-1/4" | DWDTL46 | \$6.02 |
| 47 | .0785 | 2-1/4" | 4-1/4" | DWDTL47 | \$6.02 |
| 48 | .0760 | 2" | 3-3/4" | DWDTL48 | \$4.73 |
| 49 | .0730 | 2" | 3-3/4" | DWDTL49 | \$4.73 |
| 50 | .0700 | 2" | 3-3/4" | DWDTL50 | \$4.73 |
| 51 | .0670 | 2" | 3-3/4" | DWDTL51 | \$4.73 |
| 52 | .0635 | 2" | 3-3/4" | DWDTL52 | \$4.73 |
| 53 | .0595 | 1-3/4" | 3" | DWDTL53 | \$4.75 |
| 54 | .0550 | 1-3/4" | 3" | DWDTL54 | \$4.75 |
| 55 | .0520 | 1-3/4" | 3" | DWDTL55 | \$4.75 |
| 56 | .0465 | 1-1/8" | 2-1/4" | DWDTL56 | \$4.75 |
| 57 | .0430 | 1-1/8" | 2-1/4" | DWDTL57 | \$4.75 |
| 58 | .0420 | 1-1/8" | 2-1/4" | DWDTL58 | \$4.75 |
| 59 | .0410 | 1-1/8" | 2-1/4" | DWDTL59 | \$4.75 |
| 60 | .0400 | 1-1/8" | 2-1/4" | DWDTL60 | \$4.75 |
| 61 | .0390 | 1-1/8" | 2-1/4" | DWDTL61 | \$5.09 |
| 62 | .0380 | 3/4" | 2" | DWDTL62 | \$5.09 |
| 63 | .0370 | 3/4" | 2" | DWDTL63 | \$5.09 |
| 64 | .0360 | 3/4" | 2" | DWDTL64 | \$5.09 |
| 65 | .0350 | 3/4" | 2" | DWDTL65 | \$5.09 |
| 66 | .0330 | 3/4" | 2" | DWDTL66 | \$6.15 |
| 67 | .0320 | 3/4" | 2" | DWDTL67 | \$6.15 |
| 68 | .0310 | 3/4" | 2" | DWDTL68 | \$6.15 |
| 69 | .0292 | 3/4" | 2" | DWDTL69 | \$6.15 |
| 70 | .0280 | 3/4" | 2" | DWDTL70 | \$6.73 |
| 71 | .0260 | 3/4" | 2" | DWDTL71 | \$6.73 |
| 72 | .0250 | 5/16" | 1-1/2" | DWDTL72 | \$6.73 |
| 73 | .0240 | 5/16" | 1-1/2" | DWDTL73 | \$6.73 |
| 74 | .0225 | 5/16" | 1-1/2" | DWDTL74 | \$6.73 |
| 75 | .0210 | 5/16" | 1-1/2" | DWDTL75 | \$6.73 |
| 76 | .0200 | 5/16" | 1-1/2" | DWDTL76 | \$8.07 |
| 77 | .0180 | 5/16" | 1-1/2" | DWDTL77 | \$8.07 |
| 78 | .0160 | 5/16" | 1-1/2" | DWDTL78 | \$8.07 |
| 79 | .0145 | 5/16" | 1-1/2" | DWDTL79 | \$8.07 |
| 80 | .0135 | 5/16" | 1-1/2" | DWDTL80 | \$8.07 |

HSS EXTRA LONG DRILLS

8" O.A.L. & 12" O.A.L

DWDDL Series - Long Boy Drills

For general purpose drilling in applications where extra length for reach is required, designed to perform in a broad range of materials in the iron and steel families. 118° standard point. Unless otherwise specified, drill bits (including those over 1/2") have a straight shank.



8" O . A . L .

DWDDL Series

| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
|--------|-------------|--------------|--------------|------------|
| 5/64" | .0781 | 6" | DWDDL8X5/64 | \$20.11 |
| 7/64" | .1094 | 6" | DWDDL8X7/64 | \$15.72 |
| 1/8" | .1250 | 6" | DWDDL8X1/8 | \$15.72 |
| 9/64" | .1406 | 6" | DWDDL8X9/64 | \$17.14 |
| 5/32" | .1563 | 6" | DWDDL8X5/32 | \$17.14 |
| 11/64" | .1719 | 6" | DWDDL8X11/64 | \$17.31 |
| 3/16" | .1875 | 6" | DWDDL8X3/16 | \$17.31 |
| 13/64" | .2031 | 6" | DWDDL8X13/64 | \$19.21 |
| 7/32" | .2188 | 6" | DWDDL8X7/32 | \$19.21 |
| 15/64" | .2344 | 6" | DWDDL8X15/64 | \$19.21 |
| 1/4" | .2500 | 6" | DWDDL8X1/4 | \$19.21 |
| 17/64" | .2656 | 6" | DWDDL8X17/64 | \$20.79 |

DWDDL Series

| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
|--------|-------------|--------------|--------------|------------|
| 9/32" | .2813 | 6" | DWDDL8X9/32 | \$20.79 |
| 19/64" | .2969 | 6" | DWDDL8X19/64 | \$20.79 |
| 5/16" | .3125 | 6" | DWDDL8X5/16 | \$20.79 |
| 21/64" | .3281 | 6" | DWDDL8X21/64 | \$22.36 |
| 11/32" | .3438 | 6" | DWDDL8X11/32 | \$22.36 |
| 23/64" | .3594 | 6" | DWDDL8X23/64 | \$22.36 |
| 3/8" | .3750 | 6" | DWDDL8X3/8 | \$22.36 |
| 25/64" | .3906 | 6" | DWDDL8X25/64 | \$25.81 |
| 13/32" | .4063 | 6" | DWDDL8X13/32 | \$25.81 |
| 7/16" | .4375 | 6" | DWDDL8X7/16 | \$27.31 |
| 15/32" | .4688 | 6" | DWDDL8X15/32 | \$30.50 |
| 31/64" | .4844 | 6" | DWDDL8X31/64 | \$30.50 |
| 1/2" | .5000 | 6" | DWDDL8X1/2 | \$30.50 |

12" O . A . L .

DWDDL Series

| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
|--------|-------------|--------------|---------------|------------|
| 5/64" | .0781 | 9" | DWDDL12X5/64 | \$20.11 |
| 3/32" | .0938 | 9" | DWDDL12X3/32 | \$20.11 |
| 7/64" | .1094 | 9" | DWDDL12X7/64 | \$20.11 |
| 1/8" | .1250 | 9" | DWDDL12X1/8 | \$18.29 |
| 9/64" | .1406 | 9" | DWDDL12X9/64 | \$19.38 |
| 5/32" | .1563 | 9" | DWDDL12X5/32 | \$19.38 |
| 11/64" | .1719 | 9" | DWDDL12X11/64 | \$21.18 |
| 3/16" | .1875 | 9" | DWDDL12X3/16 | \$21.18 |
| 13/64" | .2031 | 9" | DWDDL12X13/64 | \$22.24 |
| 7/32" | .2188 | 9" | DWDDL12X7/32 | \$22.24 |
| 15/64" | .2344 | 9" | DWDDL12X15/64 | \$22.24 |
| 1/4" | .2500 | 9" | DWDDL12X1/4 | \$22.24 |
| 17/64" | .2656 | 9" | DWDDL12X17/64 | \$24.04 |
| 9/32" | .2813 | 9" | DWDDL12X9/32 | \$24.04 |
| 19/64" | .2969 | 9" | DWDDL12X19/64 | \$25.10 |
| 5/16" | .3125 | 9" | DWDDL12X5/16 | \$25.10 |
| 21/64" | .3281 | 9" | DWDDL12X21/64 | \$27.61 |
| 11/32" | .3438 | 9" | DWDDL12X11/32 | \$27.61 |
| 23/64" | .3594 | 9" | DWDDL12X23/64 | \$29.07 |
| 3/8" | .3750 | 9" | DWDDL12X3/8 | \$28.51 |
| 25/64" | .3906 | 9" | DWDDL12X25/64 | \$32.63 |
| 13/32" | .4063 | 9" | DWDDL12X13/32 | \$32.10 |

DWDDL Series

| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
|--------|-------------|--------------|---------------|------------|
| 27/64" | .4219 | 9" | DWDDL12X27/64 | \$33.73 |
| 7/16" | .4375 | 9" | DWDDL12X7/16 | \$33.63 |
| 29/64" | .4531 | 9" | DWDDL12X29/64 | \$37.99 |
| 15/32" | .4688 | 9" | DWDDL12X15/32 | \$37.82 |
| 31/64" | .4844 | 9" | DWDDL12X31/64 | \$40.03 |
| 1/2" | .5000 | 9" | DWDDL12X1/2 | \$40.51 |
| 33/64" | .5156 | 9" | DWDDL12X33/64 | \$54.84 |
| 17/32" | .5313 | 9" | DWDDL12X17/32 | \$52.89 |
| 35/64" | .5469 | 9" | DWDDL12X35/64 | \$54.84 |
| 9/16" | .5625 | 9" | DWDDL12X9/16 | \$52.89 |
| 37/64" | .5781 | 9" | DWDDL12X37/64 | \$58.93 |
| 19/32" | .5938 | 9" | DWDDL12X19/32 | \$56.83 |
| 39/64" | .6094 | 9" | DWDDL12X39/64 | \$61.93 |
| 5/8" | .6250 | 9" | DWDDL12X5/8 | \$59.69 |
| 41/64" | .6406 | 9" | DWDDL12X41/64 | \$65.20 |
| 21/32" | .6563 | 9" | DWDDL12X21/32 | \$65.20 |
| 43/64" | .6719 | 9" | DWDDL12X43/64 | \$68.97 |
| 11/16" | .6875 | 9" | DWDDL12X11/16 | \$68.97 |
| 45/64" | .7031 | 9" | DWDDL12X45/64 | \$74.68 |
| 23/32" | .7188 | 9" | DWDDL12X23/32 | \$74.68 |
| 47/64" | .7344 | 9" | DWDDL12X47/64 | \$77.62 |
| 3/4" | .7500 | 9" | DWDDL12X3/4 | \$77.62 |

HSS EXTRA LONG DRILLS

18" O.A.L. & 24" O.A.L.

For general purpose drilling in applications where extra length for reach is required, designed to perform in a broad range of materials in the iron and steel families. 118° standard point. Unless otherwise specified, drill bits (including those over 1/2") have a straight shank.



18" O.A.L.

DWDDL Series

| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
|--------|-------------|--------------|---------------|------------|
| 1/8" | .1250 | 13" | DWDDL18X1/8 | \$74.57 |
| 9/64" | .1406 | 13" | DWDDL18X9/64 | \$48.24 |
| 5/32" | .1563 | 13" | DWDDL18X5/32 | \$48.24 |
| 11/64" | .1719 | 13" | DWDDL18X11/64 | \$48.24 |
| 3/16" | .1875 | 13" | DWDDL18X3/16 | \$43.85 |
| 13/64" | .2031 | 13" | DWDDL18X13/64 | \$48.24 |
| 7/32" | .2188 | 13" | DWDDL18X7/32 | \$43.85 |
| 15/64" | .2344 | 13" | DWDDL18X15/64 | \$48.24 |
| 1/4" | .2500 | 13" | DWDDL18X1/4 | \$43.85 |
| 17/64" | .2656 | 13" | DWDDL18X17/64 | \$47.23 |
| 9/32" | .2813 | 13" | DWDDL18X9/32 | \$47.23 |
| 19/64" | .2969 | 13" | DWDDL18X19/64 | \$50.05 |
| 5/16" | .3125 | 13" | DWDDL18X5/16 | \$48.26 |
| 21/64" | .3281 | 13" | DWDDL18X21/64 | \$55.57 |
| 11/32" | .3438 | 13" | DWDDL18X11/32 | \$53.53 |
| 23/64" | .3594 | 13" | DWDDL18X23/64 | \$55.57 |
| 3/8" | .3750 | 13" | DWDDL18X3/8 | \$53.53 |
| 25/64" | .3906 | 13" | DWDDL18X25/64 | \$60.18 |
| 13/32" | .4063 | 13" | DWDDL18X13/32 | \$58.04 |
| 27/64" | .4219 | 13" | DWDDL18X27/64 | \$63.53 |
| 7/16" | .4375 | 13" | DWDDL18X7/16 | \$62.53 |
| 29/64" | .4531 | 13" | DWDDL18X29/64 | \$66.91 |
| 15/32" | .4688 | 13" | DWDDL18X15/32 | \$66.91 |
| 31/64" | .4844 | 13" | DWDDL18X31/64 | \$71.54 |
| 1/2" | .5000 | 13" | DWDDL18X1/2 | \$71.54 |
| 33/64" | .5156 | 13" | DWDDL18X33/64 | \$97.92 |
| 17/32" | .5313 | 13" | DWDDL18X17/32 | \$94.43 |
| 35/64" | .5469 | 13" | DWDDL18X35/64 | \$99.54 |



DWDDL Series

| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
|--------|-------------|--------------|---------------|------------|
| 9/16" | .5625 | 13" | DWDDL18X9/16 | \$95.96 |
| 37/64" | .5781 | 13" | DWDDL18X37/64 | \$102.99 |
| 19/32" | .5938 | 13" | DWDDL18X19/32 | \$99.36 |
| 39/64" | .6094 | 13" | DWDDL18X39/64 | \$108.11 |
| 5/8" | .6250 | 13" | DWDDL18X5/8 | \$104.25 |
| 41/64" | .6406 | 13" | DWDDL18X41/64 | \$115.24 |
| 21/32" | .6563 | 13" | DWDDL18X21/32 | \$115.24 |
| 43/64" | .6719 | 13" | DWDDL18X43/64 | \$123.42 |
| 11/16" | .6875 | 13" | DWDDL18X11/16 | \$123.42 |
| 45/64" | .7031 | 13" | DWDDL18X45/64 | \$134.90 |
| 23/32" | .7188 | 13" | DWDDL18X23/32 | \$134.90 |
| 47/64" | .7344 | 13" | DWDDL18X47/64 | \$143.03 |
| 3/4" | .7500 | 13" | DWDDL18X3/4 | \$143.03 |
| 49/64" | .7656 | 13" | DWDDL18X49/64 | \$159.55 |
| 25/32" | .7813 | 13" | DWDDL18X25/32 | \$159.55 |
| 51/64" | .7969 | 13" | DWDDL18X51/64 | \$165.65 |
| 13/16" | .8125 | 13" | DWDDL18X13/16 | \$165.65 |
| 53/64" | .8281 | 13" | DWDDL18X53/64 | \$170.89 |
| 27/32" | .8438 | 13" | DWDDL18X27/32 | \$170.89 |
| 55/64" | .8594 | 13" | DWDDL18X55/64 | \$170.89 |
| 7/8" | .8750 | 13" | DWDDL18X7/8 | \$170.89 |
| 57/64" | .8906 | 13" | DWDDL18X57/64 | \$179.75 |
| 29/32" | .9063 | 13" | DWDDL18X29/32 | \$179.75 |
| 59/64" | .9219 | 13" | DWDDL18X59/64 | \$179.75 |
| 15/16" | .9375 | 13" | DWDDL18X15/16 | \$179.75 |
| 61/64" | .9531 | 13" | DWDDL18X61/64 | \$190.60 |
| 31/32" | .9688 | 13" | DWDDL18X31/32 | \$190.60 |
| 63/64" | .9844 | 13" | DWDDL18X63/64 | \$190.60 |
| 1" | 1.0000 | 13" | DWDDL18X1INCH | \$190.60 |

24" O.A.L.

DWDDL Series

| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
|--------|-------------|--------------|---------------|------------|
| 1/4" | .2500 | 18" | DWDDL24X1/4 | \$166.46 |
| 5/16" | .3125 | 18" | DWDDL24X5/16 | \$172.90 |
| 11/32" | .3437 | 18" | DWDDL24X11/32 | \$189.74 |
| 3/8" | .3750 | 18" | DWDDL24X3/8 | \$180.70 |
| 13/32" | .4062 | 18" | DWDDL24X13/32 | \$197.51 |
| 7/16" | .4375 | 18" | DWDDL24X7/16 | \$188.10 |
| 1/2" | .5000 | 18" | DWDDL24X1/2 | \$193.62 |
| 17/32" | .5312 | 18" | DWDDL24X17/32 | \$206.18 |

DWDDL Series

| Size | Dec. Equiv. | Flute Length | Part Number | List Price |
|--------|-------------|--------------|---------------|------------|
| 9/16" | .5625 | 18" | DWDDL24X9/16 | \$196.36 |
| 5/8" | .6250 | 18" | DWDDL24X5/8 | \$199.03 |
| 11/16" | .6875 | 18" | DWDDL24X11/16 | \$207.25 |
| 3/4" | .7500 | 18" | DWDDL24X3/4 | \$216.90 |
| 13/16" | .8125 | 18" | DWDDL24X13/16 | \$247.27 |
| 7/8" | .8750 | 18" | DWDDL24X7/8 | \$257.00 |
| 15/16" | .9375 | 18" | DWDDL24X15/16 | \$284.68 |
| 1" | 1.0000 | 18" | DWDDL24X1INCH | \$303.94 |

HSS EXTRA LONG REDUCED SHANK DRILLS

For general purpose drilling in applications where extra length for reach is required, designed to perform in a broad range of materials in the iron and steel families. 118° standard point. Reduced Shank Drills expand the size range capacity of a drill chuck.



1 2 " O . A . L .



| DWDDL Series | | | | | | |
|--------------|-------------|--------------|------------|-------------------|------------|--|
| Size | Dec. Equiv. | Flute Length | Shank Size | Part Number | List Price | |
| 33/64" | .5156 | 9" | 1/2" | DWDDL12X33/64X1/2 | \$76.03 | |
| 17/32" | .5313 | 9" | 1/2" | DWDDL12X17/32X1/2 | \$72.33 | |
| 35/64" | .5469 | 9" | 1/2" | DWDDL12X35/64X1/2 | \$76.03 | |
| 9/16" | .5625 | 9" | 1/2" | DWDDL12X9/16X1/2 | \$72.33 | |
| 37/64" | .5781 | 9" | 1/2" | DWDDL12X37/64X1/2 | \$80.14 | |
| 19/32" | .5938 | 9" | 1/2" | DWDDL12X19/32X1/2 | \$78.03 | |
| 39/64" | .6094 | 9" | 1/2" | DWDDL12X39/64X1/2 | \$83.13 | |
| 5/8" | .6250 | 9" | 1/2" | DWDDL12X5/8X1/2 | \$81.19 | |
| 41/64" | .6406 | 9" | 1/2" | DWDDL12X41/64X1/2 | \$86.40 | |
| 21/32" | .6563 | 9" | 1/2" | DWDDL12X21/32X1/2 | \$86.40 | |
| 43/64" | .6719 | 9" | 1/2" | DWDDL12X43/64X1/2 | \$90.17 | |
| 11/16" | .6875 | 9" | 1/2" | DWDDL12X11/16X1/2 | \$94.66 | |
| 45/64" | .7031 | 9" | 1/2" | DWDDL12X45/64X1/2 | \$95.89 | |
| 23/32" | .7188 | 9" | 1/2" | DWDDL12X23/32X1/2 | \$95.89 | |
| 47/64" | .7344 | 9" | 1/2" | DWDDL12X47/64X1/2 | \$98.82 | |
| 3/4" | .7500 | 9" | 1/2" | DWDDL12X3/4X1/2 | \$105.60 | |
| 49/64" | .7656 | 9" | 1/2" | DWDDL12X49/64X1/2 | \$108.65 | |
| 25/32" | .7813 | 9" | 1/2" | DWDDL12X25/32X1/2 | \$108.65 | |

| DWDDL Series | | | | | | |
|--------------|-------------|--------------|------------|--------------------|------------|--|
| Size | Dec. Equiv. | Flute Length | Shank Size | Part Number | List Price | |
| 51/64" | .7969 | 9" | 1/2" | DWDDL12X51/64X1/2 | \$112.31 | |
| 13/16" | .8125 | 9" | 1/2" | DWDDL12X13/16X1/2 | \$112.31 | |
| 53/64" | .8281 | 9" | 1/2" | DWDDL12X53/64X1/2 | \$115.19 | |
| 27/32" | .8438 | 9" | 1/2" | DWDDL12X27/32X1/2 | \$115.19 | |
| 55/64" | .8594 | 9" | 1/2" | DWDDL12X55/64X1/2 | \$115.19 | |
| 7/8" | .8750 | 9" | 1/2" | DWDDL12X7/8X1/2 | \$115.19 | |
| 57/64" | .8906 | 9" | 1/2" | DWDDL12X57/64X1/2 | \$120.06 | |
| 29/32" | .9063 | 9" | 1/2" | DWDDL12X29/32X1/2 | \$120.06 | |
| 59/64" | .9219 | 9" | 1/2" | DWDDL12X59/64X1/2 | \$120.06 | |
| 15/16" | .9375 | 9" | 1/2" | DWDDL12X15/16X1/2 | \$120.06 | |
| 61/64" | .9531 | 9" | 1/2" | DWDDL12X61/64X1/2 | \$126.03 | |
| 31/32" | .9688 | 9" | 1/2" | DWDDL12X31/32X1/2 | \$126.03 | |
| 63/64" | .9844 | 9" | 1/2" | DWDDL12X63/64X1/2 | \$126.03 | |
| 1" | 1.000 | 9" | 1/2" | DWDDL12X1INCHX1/2 | \$126.03 | |
| 1-1/8" | 1.125 | 9" | 3/4" | DWDDL12X1-1/8X3/4 | \$187.51 | |
| 1-3/16" | 1.187 | 9" | 3/4" | DWDDL12X1-3/16X3/4 | \$202.35 | |
| 1-1/4" | 1.250 | 9" | 3/4" | DWDDL12X1-1/4X3/4 | \$217.19 | |

1 8 " O . A . L .



| DWDDL Series | | | | | | |
|--------------|-------------|--------------|------------|-------------------|------------|--|
| Size | Dec. Equiv. | Flute Length | Shank Size | Part Number | List Price | |
| 17/32" | .5313 | 13" | 1/2" | DWDDL18X17/32X1/2 | \$131.52 | |
| 9/16" | .5625 | 13" | 1/2" | DWDDL18X9/16X1/2 | \$133.06 | |
| 19/32" | .5938 | 13" | 1/2" | DWDDL18X19/32X1/2 | \$136.45 | |
| 5/8" | .6250 | 13" | 1/2" | DWDDL18X5/8X1/2 | \$141.65 | |
| 21/32" | .6563 | 13" | 1/2" | DWDDL18X21/32X1/2 | \$152.34 | |
| 11/16" | .6875 | 13" | 1/2" | DWDDL18X11/16X1/2 | \$172.39 | |
| 23/32" | .7188 | 13" | 1/2" | DWDDL18X23/32X1/2 | \$172.00 | |
| 3/4" | .7500 | 13" | 1/2" | DWDDL18X3/4X1/2 | \$193.16 | |
| 25/32" | .7813 | 13" | 1/2" | DWDDL18X25/32X1/2 | \$196.65 | |
| 13/16" | .8125 | 13" | 1/2" | DWDDL18X13/16X1/2 | \$202.75 | |

| DWDDL Series | | | | | | |
|--------------|-------------|--------------|------------|--------------------|------------|--|
| Size | Dec. Equiv. | Flute Length | Shank Size | Part Number | List Price | |
| 27/32" | .8438 | 13" | 1/2" | DWDDL18X27/32X1/2 | \$207.99 | |
| 7/8" | .8750 | 13" | 1/2" | DWDDL18X7/8X1/2 | \$230.14 | |
| 29/32" | .9063 | 13" | 1/2" | DWDDL18X29/32X1/2 | \$230.14 | |
| 15/16" | .9375 | 13" | 1/2" | DWDDL18X15/16X1/2 | \$230.14 | |
| 31/32" | .9688 | 13" | 1/2" | DWDDL18X31/32X1/2 | \$234.51 | |
| 1" | 1.000 | 13" | 1/2" | DWDDL18X1INCHX1/2 | \$256.10 | |
| 1-1/8" | 1.125 | 13" | 3/4" | DWDDL18X1-1/8X3/4 | \$214.43 | |
| 1-3/16" | 1.187 | 13" | 3/4" | DWDDL18X1-3/16X3/4 | \$232.78 | |
| 1-1/4" | 1.250 | 13" | 3/4" | DWDDL18X1-1/4X3/4 | \$248.12 | |

2 4 " O . A . L .



| DWDDL Series | | | | | | |
|--------------|-------------|--------------|------------|-------------------|------------|--|
| Size | Dec. Equiv. | Flute Length | Shank Size | Part Number | List Price | |
| 1" | 1.000 | 18" | 1/2" | DWDDL24X1INCHX1/2 | \$409.37 | |
| 1-1/8" | 1.125 | 18" | 3/4" | DWDDL24X1-1/8X3/4 | \$401.52 | |

| DWDDL Series | | | | | | |
|--------------|-------------|--------------|------------|--------------------|------------|--|
| Size | Dec. Equiv. | Flute Length | Shank Size | Part Number | List Price | |
| 1-3/16" | 1.187 | 18" | 3/4" | DWDDL24X1-3/16X3/4 | \$430.24 | |
| 1-1/4" | 1.250 | 18" | 3/4" | DWDDL24X1-1/4X3/4 | \$503.60 | |

DRILL BIT SETS IN ROUND PLASTIC CASE

PC Series - BIT Cooler Drill Sets

Drill America Bit Cooler Drill Bit Sets come in a rust resistant, water resistant round plastic case. They are available in jobber length sizes in high speed steel and cobalt in 29 piece (fractional) and 25 piece (metric) sets.

| Size | Pieces | Description | Part Number | List Price |
|----------------------|--------|--|---------------|------------|
| 1/16" - 1/2" x 64ths | 29 | KFD Black & Gold m2 HSS w/135° Split Point Tip | KFD29J-PC | \$158.83 |
| 1/16" - 1/2" x 64ths | 29 | Qualtech M35 Gold Finish Cobalt w/135° Split Point Tip | DWD29J-CO-PC | \$216.21 |
| 1/16" - 1/2" x 64ths | 29 | Drill America M42 Gold Finish Cobalt w/135° Split Point Tip | D/A29J-CO-PC | \$301.15 |
| 1/16" - 1/2" x 64ths | 29 | Drill America HSS Black Oxide w/118° Conventional Tip | D/A29J-PC | \$164.68 |
| 1/16" - 1/2" x 64ths | 29 | Qualtech HSS Black Oxide w/118° Conventional Tip | DWD29J-PC | \$82.58 |
| 1/16" - 1/2" x 64ths | 29 | Cobalt Stepped Point w/135° Split Point and Gold Finish | GSC29J-PC | \$501.00 |
| 1/16" - 1/2" x 64ths | 29 | Drill America HSS Black Oxide w/135° Split Point Tip | D/A29J-SP-PC | \$162.46 |
| 1/16" - 1/2" x 64ths | 29 | Black & Gold Contractor HSS w/135° Split Point Tip and 3-Flat Shank KFD29J-3F-PC | KFD29J-3F-PC | \$119.58 |
| 1/16" - 1/2" x 64ths | 29 | KFD Black & Gold m2 HSS w/135° Split Point Tip and 3/8" Shank KFD29JX3/8-PC | KFD29JX3/8-PC | \$213.12 |
| 1mm - 13mm x .5mm | 25 | KFD Black & Gold m2 HSS w/135° Split Point Tip | KFD4025-PC | \$183.45 |
| 1mm - 13mm x .5mm | 25 | Qualtech M35 Gold Finish Cobalt w/135° Split Point Tip | D/A4025-CO-PC | \$352.96 |
| 1mm - 13mm x .5mm | 25 | Qualtech HSS Black Oxide w/118° Conventional Tip | DWD4025-PC | \$115.32 |



DRILL SETS

29 PIECE 1/16" - 1/2" X 64THS

| Part Number | Description | List Price |
|--|---|------------|
| 118° General Purpose HSS Jobbers Length | | |
| D/A29J-SET | Drill America HSS Surface Treated Jobbers | \$152.32 |
| D/A29J-P-SET | Drill America HSS Polished Jobbers | \$152.32 |
| D/A29J-PC | Drill America HSS Surface Treated Jobbers in Plastic Case | \$164.68 |
| DWD29J-SET | Qualtech HSS Surface Treated Jobbers | \$70.79 |
| DWD29J-P-SET | Qualtech HSS Polished Jobbers | \$111.30 |
| DWD29J-PC | Qualtech HSS Surface Treated Jobbers in Plastic Case | \$82.58 |
| 135° Heavy Duty Split Point HSS Jobbers Length | | |
| D/A29J-SP-SET | Drill America Split Point Jobbers | \$148.68 |
| D/A29J-SP-PC | Drill America Split Point Jobbers in Plastic Case | \$162.46 |
| DWD29J-SP-SET | Qualtech Split Point Jobbers | \$132.63 |
| 135° Heavy Duty Split Point Cobalt Jobbers Length | | |
| D/A29J-CO-SET | Drill America Cobalt Jobbers | \$286.80 |
| D/A29J-CO-PC | Drill America Cobalt Jobbers in Plastic Case | \$301.15 |
| D/A29JX3/8-CO-SET | Drill America Cobalt Jobbers with 3/8 Shank | \$355.41 |
| DWD29J-CO-SET | Qualtech Cobalt Jobbers | \$206.55 |
| DWD29J-CO-PC | Qualtech Cobalt Jobbers in Plastic Case | \$216.21 |
| DWD29JX3/8-CO-SET | Qualtech Cobalt Jobbers with 3/8 Shank | \$268.99 |
| COHEX29-SET | Cobalt Quick Change Drill Bit Set in Plastic Case | \$307.87 |
| GSC29J-PC | Cobalt Stepped Drill Bit Set in Plastic Case | \$501.00 |
| 135° Heavy Duty HSS Black and Gold Jobbers Length | | |
| KFD29J-SET | KFD HSS Black and Gold Jobbers | \$139.84 |
| KFD29J-PC | KFD HSS Black and Gold Jobbers in Plastic Case | \$158.83 |
| KFD29J-3F-SET | HSS Contractor Black and Gold Jobbers Set | \$111.87 |
| KFD29J-3F-PC | HSS Contractor Black and Gold Jobbers in Plastic Case | \$119.58 |
| KFD29JX3/8-SET | KFD Black and Gold Jobbers with 3/8 Shank | \$180.72 |
| KFD29JX3/8-PC | KFD Black and Gold Jobbers with 3/8 Shank in Plastic Case | \$213.12 |
| KFDHEX29-PC | HSS KFD Quick Change Black and Gold Jobbers in Plastic Case | \$235.40 |
| 135° Heavy Duty Split Point Screw Machine Length | | |
| D/A29S-SET | Drill America HSS Split Point Screw Machine | \$151.20 |
| DWD29S-SET | Qualtech HSS Split Point Screw Machine | \$145.40 |
| D/A29S-CO-SET | Drill America Cobalt Split Point Screw Machine | \$277.42 |
| KFD29S-SET | HSS Contractor Black and Gold Screw Machine | \$128.30 |
| 135° Heavy Duty HSS Black and Gold Mechanics Length | | |
| KFD29ML-PC | KFD HSS Black and Gold Mechanics Length in Plastic Case | \$180.88 |
| KFD29ML-SET | KFD HSS Black and Gold Mechanics Length | \$163.13 |
| 118° General Purpose 1/4" and 3/8" Reduced Shank | | |
| D/A29JX1/4-SET | Drill America HSS Surface Treated Jobbers with 1/4 Shank | \$205.98 |
| DWD29JX1/4-SET | Qualtech HSS Surface Treated Jobbers with 1/4 Shank | \$154.70 |
| D/A29JX3/8-SET | Drill America HSS Surface Treated Jobbers with 3/8 Shank | \$188.18 |
| DWD29JX3/8-SET | Qualtech HSS Surface Treated Jobbers with 3/8 Shank | \$128.61 |
| 118° General Purpose Miscellaneous | | |
| D/A29J-LH-SET | Drill America HSS Left Hand Jobbers | \$532.35 |
| DWD29J-LH-SET | Qualtech HSS Left Hand Jobbers | \$287.41 |
| DWD29J-TN-SET | Qualtech HSS TIN Coated Jobbers | \$182.89 |
| Miscellaneous | | |
| DWD29J-DB-SET | Qualtech Drill Blanks | \$233.52 |



DRILL SETS

13 PIECE 1/16" - 1/4" X 64THS

| Part Number | Description | List Price |
|---|---|------------|
| 118° General Purpose HSS Jobbers Length | | |
| D/A13J-SET | Drill America HSS Surface Treated Jobbers | \$31.42 |
| D/A13J-P-SET | Drill America HSS Polished Jobbers | \$31.42 |
| DWD13J-SET | Qualtech HSS Surface Treated Jobbers | \$18.48 |
| 135° Heavy Duty Split Point HSS Jobbers Length | | |
| D/A13J-SP-SET | Drill America HSS Split Point Jobbers | \$34.88 |
| 135° Heavy Duty Split Point Cobalt Jobbers Length | | |
| D/A13J-CO-SET | Drill America Cobalt Jobbers | \$56.83 |
| DWD13J-CO-SET | Qualtech Cobalt Jobbers | \$41.29 |
| COHEX13-SET | Cobalt Quick Change Hex Shank Drill Bit Set | \$55.16 |
| 135° Heavy Duty Split Point HSS Screw Machine Length | | |
| D/A13S-SET | Drill America HSS Split Point Screw Machine | \$31.82 |
| DWD13S-SET | Qualtech HSS Split Point Screw Machine | \$26.28 |
| 135° Heavy Duty HSS Black and Gold Jobber and Mechanics Length | | |
| KFD13J-SET | KFD HSS Black and Gold Jobbers | \$24.96 |
| KFD13ML-SET | KFD HSS Black and Gold Mechanical Length | \$34.34 |
| KFDHEX13-PC | HSS KFD Quick Change Black and Gold Jobbers in Plastic Case | \$37.77 |
| 118° General Purpose Miscellaneous | | |
| DWD13J-LH-SET | Qualtech HSS Left Hand Jobbers | \$65.75 |
| DWD13J-TN-SET | Qualtech HSS TIN Coated Jobbers | \$68.70 |

15 PIECE 1/16" - 1/2" X 32NDS

| Part Number | Description | List Price |
|---|---|------------|
| 118° General Purpose HSS Jobbers Length | | |
| D/A15J-SET | Drill America HSS Surface Treated Jobbers | \$81.38 |
| D/A15J-P-SET | Drill America HSS Polished Jobbers | \$81.38 |
| DWD15J-SET | Qualtech HSS Surface Treated Jobbers | \$42.50 |
| 135° Heavy Duty Split Point HSS Jobbers Length | | |
| D/A15J-SP-SET | Drill America HSS Split Point Jobbers | \$98.36 |
| 135° Heavy Duty Split Point Cobalt Jobbers Length | | |
| D/A15J-CO-SET | Drill America Cobalt Jobbers | \$169.08 |
| DWD15J-CO-SET | Qualtech Cobalt Jobbers | \$112.67 |
| COHEX15-SET | Cobalt Quick Change Hex Shank Drill Bit Set | \$154.16 |
| 135° Heavy Duty Split Point HSS Screw Machine Length | | |
| D/A15S-SET | Drill America HSS Split Point Screw Machine | \$108.39 |
| DWD15S-SET | Qualtech HSS Split Point Screw Machine | \$76.64 |
| 135° Heavy Duty HSS Black and Gold Jobber and Mechanics Length | | |
| KFD15J-SET | KFD HSS Black and Gold Jobbers | \$72.50 |
| KFD15ML-SET | KFD HSS Black and Gold Mechanical Length | \$96.59 |
| KFDHEX15-PC | HSS KFD Quick Change Black and Gold Jobbers in Plastic Case | \$128.40 |
| 118° General Purpose Miscellaneous | | |
| DWD15J-LH-SET | Qualtech HSS Left Hand Jobbers | \$151.34 |
| DWD15J-TN-SET | Qualtech HSS TIN Coated Jobbers | \$177.31 |



DRILL SETS

21 PIECE 1/16" - 3/8" X 64 THS

| Part Number | Description | List Price |
|--|---|------------|
| 118° General Purpose HSS Jobbers Length | | |
| D/A21J-SET | Drill America HSS Surface Treated Jobbers | \$73.23 |
| D/A21J-P-SET | Drill America HSS Polished Jobbers | \$73.23 |
| DWD21J-SET | Qualtech HSS Surface Treated Jobbers | \$39.76 |
| 135° Heavy Duty Split Point HSS Jobbers Length | | |
| D/A21J-SP-SET | Drill America HSS Split Point Jobbers | \$88.57 |
| 135° Heavy Duty Split Point Cobalt Jobbers Length | | |
| D/A21J-CO-SET | Drill America Cobalt Jobbers | \$147.67 |
| DWD21J-CO-SET | Qualtech Cobalt Jobbers | \$108.34 |
| 135° Heavy Duty Split Point HSS Screw Machine Length | | |
| D/A21S-SET | Drill America HSS Split Point Screw Machine | \$96.69 |
| DWD21S-SET | Qualtech HSS Split Point Screw Machine | \$58.58 |
| 135° Heavy Duty HSS Black and Gold Jobbers and Mechanics Length | | |
| KFD21J-SET | KFD HSS Black and Gold Jobbers | \$87.96 |
| KFD21ML-SET | KFD HSS Black and Gold Mechanical Length | \$97.93 |
| 118° General Purpose Miscellaneous | | |
| DWD21J-LH-SET | Qualtech HSS Left Hand Jobbers | \$142.98 |
| DWD21J-TN-SET | Qualtech HSS TIN Coated Jobbers | \$189.02 |

60 PIECE #1 - 60 WIRE GAUGE SIZES

| Part Number | Description | List Price |
|--|--|------------|
| 118° General Purpose HSS Jobbers Length | | |
| D/A60J-SET | Drill America HSS Surface Treated Jobbers | \$117.43 |
| D/A60J-P-SET | Drill America HSS Polished Jobbers | \$117.43 |
| DWD60J-SET | Qualtech HSS Surface Treated Jobbers | \$76.30 |
| 135° Heavy Duty Split Point HSS Jobbers Length | | |
| D/A60J-SP-SET | Drill America HSS Split Point Jobbers | \$137.09 |
| 135° Heavy Duty Split Point Cobalt Jobbers Length | | |
| D/A60J-CO-SET | Drill America Cobalt Jobbers | \$222.07 |
| DWD60J-CO-SET | Qualtech Cobalt Jobbers | \$175.20 |
| 135° Heavy Duty Split Point Screw Machine Length | | |
| D/A60S-SET | Drill America HSS Split Point Screw Machine | \$139.36 |
| DWD60S-SET | Qualtech HSS Split Point Screw Machine | \$127.52 |
| D/A60S-CO-SET | Drill America Cobalt Split Point Screw Machine | \$226.52 |
| 135° Heavy Duty HSS Black and Gold Jobbers Length | | |
| KFD60J-SET | KFD HSS Black and Gold Jobbers | \$130.51 |
| 118° HSS Left Hand Jobbers | | |
| DWD60J-LH-SET | Qualtech HSS Left Hand Jobbers | \$355.32 |
| Miscellaneous | | |
| DWD60J-DB-SET | Qualtech Drill Blanks | \$179.81 |

20 PIECE #61 - 80 WIRE GAUGE SIZES

| Part Number | Description | List Price |
|--|---|------------|
| 118° General Purpose HSS Jobbers Length | | |
| D/A20J-SET | Drill America HSS Surface Treated Jobbers | \$48.89 |
| DWD20J-SET | Qualtech HSS Surface Treated Jobbers | \$33.10 |
| 135° Heavy Duty Split Point Cobalt Jobbers Length | | |
| D/A20J-CO-SET | Drill America Cobalt Jobbers | \$84.94 |

DRILL SETS

26 PIECE A-Z - LETTER SIZES

| Part Number | Description | List Price |
|--|--|------------|
| 118° General Purpose HSS Jobbers Length | | |
| D/A26J-SET | Drill America HSS Surface Treated Jobbers | \$161.07 |
| DWD26J-SET | Qualtech HSS Surface Treated Jobbers | \$94.23 |
| 135° Heavy Duty Split Point HSS Jobbers Length | | |
| D/A26J-SP-SET | Drill America HSS Split Point Jobbers | \$183.82 |
| 135° Heavy Duty Split Point Cobalt Jobbers Length | | |
| D/A26J-CO-SET | Drill America Cobalt Jobbers | \$319.74 |
| DWD26J-CO-SET | Qualtech Cobalt Jobbers | \$231.75 |
| 135° Heavy Duty Split Point Screw Machine Length | | |
| D/A26S-SET | Drill America HSS Split Point Screw Machine | \$186.22 |
| D/A26S-CO-SET | Drill America Cobalt Split Point Screw Machine | \$329.47 |
| DWD26S-SET | Qualtech HSS Split Point Screw Machine | \$147.77 |
| 135° Heavy Duty HSS Black and Gold Jobbers Length | | |
| KFD26J-SET | KFD HSS Black and Gold Jobbers | \$154.91 |

115 PIECE FRAC, LETTER, WIRE GAUGE CONTAINS SIZES 1/16" - 1/2" X64THS, A-Z, #1-#60 COMBINED

| Part Number | Description | List Price |
|--|---|------------|
| 118° General Purpose HSS Jobbers Length | | |
| D/A115J-SET | Drill America HSS Surface Treated Jobbers | \$400.14 |
| D/A115J-P-SET | Drill America HSS Polished Jobbers | \$400.14 |
| DWD115J-SET | Qualtech HSS Surface Treated Jobbers | \$206.47 |
| 135° Heavy Duty Split Point HSS Jobbers Length | | |
| D/A115J-SP-SET | Drill America HSS Split Point Jobbers | \$486.78 |
| 135° Heavy Duty Split Point Cobalt Jobbers Length | | |
| D/A115J-CO-SET | Drill America Cobalt Jobbers | \$838.36 |
| DWD115J-CO-SET | Qualtech Cobalt Jobbers | \$601.84 |
| 118° HSS TIN Coated Jobbers | | |
| DWD115J-TN-SET | Qualtech HSS TIN Coated Jobbers | \$420.42 |
| 135° Heavy Duty HSS Black and Gold Jobbers Length | | |
| KFD115J-SET | KFD HSS Black and Gold Jobbers | \$471.60 |
| Miscellaneous | | |
| DWD115J-DB-SET | Qualtech Drill Blanks | \$621.88 |



DRILL SETS

METRIC JOBBERS

| Part Number | Description | List Price |
|----------------|---|------------|
| DWD4011-SET | Qualtech HSS Surface Treated Jobbers 1 - 6 mm x 0.5 mm 11 Piece | \$24.21 |
| DWD4013-SET | Qualtech HSS Surface Treated Jobbers 1 - 7 mm x 0.5 mm 13 Piece | \$29.60 |
| DWD4019-SET | Qualtech HSS Surface Treated Jobbers 1 - 10 mm x 0.5 mm 19 Piece | \$63.84 |
| D/A4025-SET | Drill America HSS Surface Treated Jobbers 1 - 13 mm x 0.5 mm 25 Piece | \$235.51 |
| DWD4025-SET | Qualtech HSS Surface Treated Jobbers 1 - 13 mm x 0.5 mm 25 Piece | \$95.37 |
| DWD4025-PC | Qualtech HSS Surface Treated Jobbers 1 - 13 mm x 0.5 mm 25 Piece Plastic Case | \$115.32 |
| D/A4025-CO-SET | Drill America Cobalt Jobbers 1 - 13 mm x 0.5 mm 25 Piece | \$360.89 |
| D/A4025-CO-PC | Drill America Cobalt Jobbers 1 - 13 mm x 0.5 mm 25 Piece Plastic Case | \$360.89 |
| KFD4025-SET | KFD HSS Black and Gold Jobbers 1 - 13 mm x 0.5 mm 25 Piece | \$182.92 |
| KFD4025-PC | KFD HSS Black and Gold Jobbers 1 - 13 mm x 0.5 mm 25 Piece Plastic Case | \$183.45 |

S&D SETS

5 PIECE SET W / 1/2" SHANK
CONTAINS SIZES 9/16", 5/8", 3/4", 7/8", 1"

| Part Number | Description | List Price |
|-------------|--|------------|
| D/ASWD | Drill America HSS S&D Drills in Metal Case | \$235.35 |
| DWDSWD | Qualtech HSS S&D Drills in Metal Case | \$125.22 |

8 PIECE SET W / 1/2" SHANK
9/16" - 1" X 16 T H S

| Part Number | Description | List Price |
|----------------|---|------------|
| D/A1008-SET | Drill America HSS S&D Drills in Metal Case | \$350.09 |
| DWD1008-SET | Qualtech HSS S&D Drills in Metal Case | \$183.60 |
| D/A1008-CO-SET | Drill America Cobalt S&D Drills in Metal Case | \$573.12 |
| DWD1008-CO-SET | Qualtech Cobalt S&D Drills in Metal Case | \$394.25 |
| KFD1008-SET | KFD HSS Black and Gold S&D Drills in Metal Case | \$344.60 |

33 PIECE SET W / 1/2" SHANK
1/2" - 1" X 64 T H S

| Part Number | Description | List Price |
|------------------|--|------------|
| D/A833SD-SET | Drill America HSS S&D Drills in Metal Stand | \$1,251.62 |
| DWD833SD-SET | Qualtech HSS S&D Drills in Metal Stand | \$605.79 |
| DWD833SD-WOOD | Qualtech HSS S&D Drills in Wood Case | \$530.00 |
| D/A833SD-CO-SET | Drill America Cobalt S&D Drills in Metal Stand | \$2,397.40 |
| DWD833SD-CO-WOOD | Qualtech Cobalt S&D Drills in Wood Case | \$1,484.00 |
| DWD833SD-CO-SET | Qualtech Cobalt S&D Drills in Metal Stand | \$1,749.00 |
| KFD833SD-SET | KFD HSS Black and Gold S&D Drills in Metal Stand | \$1,000.00 |
| KFD833SD-WOOD | KFD HSS Black and Gold S&D Drills in Wood Case | \$875.00 |

DRILL AND TAP SETS

| Part Number | Description | List Price |
|-------------|---|------------|
| DWDTD99 | 18 PIECE TAP AND DRILL BIT SET #6 - 1/2 National Coarse | \$139.98 |
| DWDTD99-NF | 18 PIECE TAP AND DRILL BIT SET #6 - 1/2 National Fine | \$139.98 |
| DWDTD4099 | 18 PIECE TAP AND DRILL BIT SET M2 - M12 National Coarse | \$139.98 |

HSS HAND TAPS

T/A Series - High Speed Hand Taps

Hand Taps are the most versatile taps for hand use. They are also appropriate for tapping the vast majority of materials in through or blind holed conditions. **Taper Style** - Starts the thread square with the workpiece. **Plug Style** - Generally used in thru holes. **Bottom style** - Generates the thread to the bottom of the hole.



Taper

Plug

Bottom



7-10 Thread



3-5 Thread



1-2 Thread

T/A Series

MACHINE AND FRACTIONAL SIZES

| Size | Limit | No. of Flutes | Taper | Plug | Bottom | List Price | Set | List Price |
|-----------|-------|---------------|----------|----------|----------|------------|----------|------------|
| 0-80 | H1 | 2 | T/A54025 | T/A54026 | T/A54027 | \$17.76 | T/A54028 | \$53.29 |
| 1-64 | H1 | 2 | T/A54055 | T/A54056 | T/A54057 | \$16.97 | T/A54058 | \$50.91 |
| 1-72 | H1 | 2 | T/A54060 | T/A54061 | T/A54062 | \$16.97 | T/A54063 | \$50.91 |
| 2-56 | H2 | 3 | T/A54089 | T/A54090 | T/A54091 | \$14.59 | T/A54092 | \$43.82 |
| 2-64 | H2 | 3 | T/A54093 | T/A54094 | T/A54095 | \$15.76 | T/A54096 | \$47.32 |
| 3-48 | H2 | 3 | T/A54115 | T/A54116 | T/A54117 | \$11.24 | T/A54118 | \$33.71 |
| 3-56 | H2 | 3 | T/A54120 | T/A54121 | T/A54122 | \$12.01 | T/A54123 | \$36.06 |
| 4-36 | H2 | 3 | T/A54139 | T/A54140 | T/A54141 | \$10.23 | T/A54137 | \$30.70 |
| 4-40 | H2 | 3 | T/A54149 | T/A54150 | T/A54151 | \$9.53 | T/A54152 | \$28.58 |
| 4-48 | H2 | 3 | T/A54153 | T/A54154 | T/A54155 | \$10.23 | T/A54156 | \$30.70 |
| 5-40 | H2 | 3 | T/A54188 | T/A54189 | T/A54190 | \$8.98 | T/A54191 | \$26.91 |
| 5-44 | H2 | 3 | T/A54192 | T/A54193 | T/A54194 | \$8.98 | T/A54195 | \$26.91 |
| 6-32 | H3 | 3 | T/A54223 | T/A54224 | T/A54225 | \$7.21 | T/A54226 | \$21.62 |
| 6-40 | H2 | 3 | T/A54232 | T/A54233 | T/A54234 | \$7.71 | T/A54235 | \$23.12 |
| 8-32 | H3 | 4 | T/A54277 | T/A54278 | T/A54279 | \$8.04 | T/A54280 | \$24.12 |
| 8-36 | H2 | 4 | T/A54289 | T/A54290 | T/A54291 | \$8.31 | T/A54292 | \$24.93 |
| 10-24 | H3 | 4 | T/A54329 | T/A54330 | T/A54331 | \$8.31 | T/A54332 | \$24.93 |
| 10-32 | H3 | 4 | T/A54356 | T/A54357 | T/A54358 | \$8.31 | T/A54359 | \$24.93 |
| 12-24 | H3 | 4 | T/A54385 | T/A54386 | T/A54387 | \$8.81 | T/A54388 | \$26.43 |
| 12-28 | H3 | 4 | T/A54389 | T/A54390 | T/A54391 | \$8.81 | T/A54392 | \$26.43 |
| 1/4"-20 | H3 | 4 | T/A54453 | T/A54454 | T/A54455 | \$7.51 | T/A54460 | \$22.53 |
| 1/4"-28 | H3 | 4 | T/A54469 | T/A54470 | T/A54471 | \$7.51 | T/A54476 | \$22.53 |
| 5/16"-18 | H3 | 4 | T/A54504 | T/A54505 | T/A54506 | \$9.31 | T/A54511 | \$27.93 |
| 5/16"-24 | H3 | 4 | T/A54518 | T/A54519 | T/A54520 | \$9.31 | T/A54523 | \$27.93 |
| 3/8"-16 | H3 | 4 | T/A54582 | T/A54583 | T/A54584 | \$10.18 | T/A54587 | \$30.54 |
| 3/8"-24 | H3 | 4 | T/A54595 | T/A54596 | T/A54597 | \$10.18 | T/A54600 | \$30.54 |
| 7/16"-14 | H3 | 4 | T/A54652 | T/A54653 | T/A54654 | \$17.93 | T/A54656 | \$53.78 |
| 7/16"-20 | H3 | 4 | T/A54661 | T/A54662 | T/A54663 | \$17.93 | T/A54665 | \$53.78 |
| 1/2"-13 | H3 | 4 | T/A54726 | T/A54727 | T/A54728 | \$18.71 | T/A54731 | \$56.13 |
| 1/2"-20 | H3 | 4 | T/A54737 | T/A54738 | T/A54739 | \$19.75 | T/A54741 | \$59.27 |
| 9/16"-12 | H3 | 4 | T/A54759 | T/A54760 | T/A54761 | \$31.75 | T/A54762 | \$95.24 |
| 9/16"-18 | H3 | 4 | T/A54765 | T/A54766 | T/A54767 | \$31.75 | T/A54768 | \$95.24 |
| 5/8"-11 | H3 | 4 | T/A54779 | T/A54780 | T/A54781 | \$37.96 | T/A54782 | \$113.86 |
| 5/8"-18 | H3 | 4 | T/A54787 | T/A54788 | T/A54789 | \$37.96 | T/A54790 | \$113.86 |
| 11/16"-11 | H3 | 4 | T/A54813 | T/A54814 | T/A54815 | \$47.10 | T/A54816 | \$141.32 |
| 11/16"-16 | H3 | 4 | T/A54817 | T/A54818 | T/A54819 | \$47.10 | T/A54820 | \$141.32 |
| 3/4"-10 | H3 | 4 | T/A54838 | T/A54839 | T/A54840 | \$52.86 | T/A54841 | \$158.59 |
| 3/4"-16 | H3 | 4 | T/A54846 | T/A54847 | T/A54848 | \$52.86 | T/A54849 | \$158.59 |
| 7/8"-9 | H4 | 4 | T/A54884 | T/A54885 | T/A54886 | \$75.44 | T/A54887 | \$226.29 |
| 7/8"-14 | H4 | 4 | T/A54890 | T/A54891 | T/A54892 | \$75.44 | T/A54893 | \$226.29 |
| 1"-8 | H4 | 4 | T/A54923 | T/A54924 | T/A54925 | \$100.43 | T/A54926 | \$301.31 |
| 1"-12 | H4 | 4 | T/A54928 | T/A54929 | T/A54930 | \$103.59 | T/A54931 | \$310.76 |
| 1"-14 | H4 | 4 | T/A54933 | T/A54934 | T/A54935 | \$100.43 | T/A54936 | \$301.31 |
| 1-1/8"-7 | H4 | 4 | T/A54965 | T/A54966 | T/A54967 | \$155.04 | T/A54944 | \$465.13 |
| 1-1/8"-12 | H4 | 4 | T/A54971 | T/A54972 | T/A54973 | \$155.04 | T/A54937 | \$465.13 |
| 1-1/4"-7 | H4 | 4 | T/A54994 | T/A54995 | T/A54996 | \$200.12 | T/A54938 | \$600.35 |
| 1-1/4"-12 | H4 | 6 | T/A55000 | T/A55001 | T/A55002 | \$200.12 | T/A54939 | \$600.35 |
| 1-3/8"-6 | H4 | 4 | T/A55027 | T/A55028 | T/A55029 | \$251.61 | T/A54940 | \$754.82 |
| 1-3/8"-12 | H4 | 6 | T/A55030 | T/A55031 | T/A55032 | \$251.61 | T/A54941 | \$754.82 |
| 1-1/2"-6 | H4 | 4 | T/A55057 | T/A55058 | T/A55059 | \$298.66 | T/A54942 | \$895.99 |
| 1-1/2"-12 | H4 | 6 | T/A55063 | T/A55064 | T/A55065 | \$298.66 | T/A54943 | \$895.99 |

HSS HAND TAPS

DWT Series - High Speed Hand Taps



Taper



7-10 Thread

Plug



3-5 Thread

Bottom



1-2 Thread

DWT Series

| Size | No. of Flutes | Taper | Plug | Bottom | List Price | Set | List Price |
|-----------|---------------|----------|----------|----------|------------|----------|------------|
| 0-80 | 2 | DWT54025 | DWT54026 | DWT54027 | \$12.02 | DWT54028 | \$36.06 |
| 1-64 | 2 | DWT54055 | DWT54056 | DWT54057 | \$11.17 | DWT54058 | \$33.41 |
| 1-72 | 2 | DWT54060 | DWT54061 | DWT54062 | \$11.17 | DWT54063 | \$33.41 |
| 2-56 | 3 | DWT54089 | DWT54090 | DWT54091 | \$9.57 | DWT54092 | \$28.72 |
| 2-64 | 3 | DWT54093 | DWT54094 | DWT54095 | \$10.36 | DWT54096 | \$31.04 |
| 3-48 | 3 | DWT54115 | DWT54116 | DWT54117 | \$7.30 | DWT54118 | \$21.91 |
| 3-56 | 3 | DWT54120 | DWT54121 | DWT54122 | \$7.74 | DWT54123 | \$23.19 |
| 4-36 | 3 | DWT54139 | DWT54140 | DWT54141 | \$6.09 | DWT54137 | \$18.29 |
| 4-40 | 3 | DWT54149 | DWT54150 | DWT54151 | \$6.04 | DWT54152 | \$18.11 |
| 4-48 | 3 | DWT54153 | DWT54154 | DWT54155 | \$6.09 | DWT54156 | \$18.29 |
| 5-40 | 3 | DWT54188 | DWT54189 | DWT54190 | \$6.09 | DWT54191 | \$18.29 |
| 5-44 | 3 | DWT54192 | DWT54193 | DWT54194 | \$6.09 | DWT54195 | \$18.29 |
| 6-32 | 3 | DWT54223 | DWT54224 | DWT54225 | \$4.61 | DWT54226 | \$13.79 |
| 6-40 | 3 | DWT54232 | DWT54233 | DWT54234 | \$4.88 | DWT54235 | \$14.66 |
| 8-32 | 4 | DWT54277 | DWT54278 | DWT54279 | \$4.76 | DWT54280 | \$14.29 |
| 8-36 | 4 | DWT54289 | DWT54290 | DWT54291 | \$4.88 | DWT54292 | \$14.66 |
| 10-24 | 4 | DWT54329 | DWT54330 | DWT54331 | \$4.88 | DWT54332 | \$14.66 |
| 10-32 | 4 | DWT54356 | DWT54357 | DWT54358 | \$4.88 | DWT54359 | \$14.66 |
| 12-24 | 4 | DWT54385 | DWT54386 | DWT54387 | \$5.20 | DWT54388 | \$15.57 |
| 12-28 | 4 | DWT54389 | DWT54390 | DWT54391 | \$5.37 | DWT54392 | \$16.14 |
| 14-20 | 4 | DWT54393 | DWT54394 | DWT54395 | \$10.82 | DWT54396 | \$32.49 |
| 14-24 | 4 | DWT54397 | DWT54398 | DWT54399 | \$10.82 | DWT54400 | \$32.49 |
| 1/4"-20 | 4 | DWT54453 | DWT54454 | DWT54455 | \$5.15 | DWT54460 | \$15.43 |
| 1/4"-28 | 4 | DWT54469 | DWT54470 | DWT54471 | \$5.15 | DWT54476 | \$15.43 |
| 5/16"-18 | 4 | DWT54504 | DWT54505 | DWT54506 | \$6.50 | DWT54511 | \$19.50 |
| 5/16"-24 | 4 | DWT54518 | DWT54519 | DWT54520 | \$6.50 | DWT54523 | \$19.50 |
| 3/8"-16 | 4 | DWT54582 | DWT54583 | DWT54584 | \$7.38 | DWT54587 | \$22.07 |
| 3/8"-24 | 4 | DWT54595 | DWT54596 | DWT54597 | \$7.38 | DWT54600 | \$22.07 |
| 7/16"-14 | 4 | DWT54652 | DWT54653 | DWT54654 | \$12.13 | DWT54656 | \$36.41 |
| 7/16"-20 | 4 | DWT54661 | DWT54662 | DWT54663 | \$12.13 | DWT54665 | \$36.41 |
| 1/2"-13 | 4 | DWT54726 | DWT54727 | DWT54728 | \$13.33 | DWT54731 | \$39.91 |
| 1/2"-20 | 4 | DWT54737 | DWT54738 | DWT54739 | \$13.33 | DWT54741 | \$39.91 |
| 9/16"-12 | 4 | DWT54759 | DWT54760 | DWT54761 | \$21.22 | DWT54762 | \$63.67 |
| 9/16"-18 | 4 | DWT54765 | DWT54766 | DWT54767 | \$21.22 | DWT54768 | \$63.67 |
| 5/8"-11 | 4 | DWT54779 | DWT54780 | DWT54781 | \$26.02 | DWT54782 | \$78.08 |
| 5/8"-18 | 4 | DWT54787 | DWT54788 | DWT54789 | \$26.02 | DWT54790 | \$78.08 |
| 11/16"-11 | 4 | DWT54813 | DWT54814 | DWT54815 | \$31.49 | DWT54816 | \$94.49 |
| 11/16"-16 | 4 | DWT54817 | DWT54818 | DWT54819 | \$31.49 | DWT54820 | \$94.49 |
| 3/4"-10 | 4 | DWT54838 | DWT54839 | DWT54840 | \$35.20 | DWT54841 | \$105.61 |
| 3/4"-16 | 4 | DWT54846 | DWT54847 | DWT54848 | \$35.20 | DWT54849 | \$105.61 |
| 7/8"-9 | 4 | DWT54884 | DWT54885 | DWT54886 | \$49.19 | DWT54887 | \$147.61 |
| 7/8"-14 | 4 | DWT54890 | DWT54891 | DWT54892 | \$49.19 | DWT54893 | \$147.61 |
| 1"-8 | 4 | DWT54923 | DWT54924 | DWT54925 | \$66.07 | DWT54926 | \$198.23 |
| 1"-12 | 4 | DWT54928 | DWT54929 | DWT54930 | \$67.20 | DWT54931 | \$201.56 |
| 1"-14 | 4 | DWT54933 | DWT54934 | DWT54935 | \$67.20 | DWT54936 | \$201.56 |
| 1-1/8"-7 | 4 | DWT54965 | DWT54966 | DWT54967 | \$104.49 | DWT54944 | \$313.44 |
| 1-1/8"-12 | 4 | DWT54971 | DWT54972 | DWT54973 | \$106.12 | DWT54937 | \$318.37 |
| 1-1/4"-7 | 4 | DWT54994 | DWT54995 | DWT54996 | \$125.11 | DWT54938 | \$375.31 |
| 1-1/4"-12 | 6 | DWT55000 | DWT55001 | DWT55002 | \$125.11 | DWT54939 | \$375.31 |
| 1-3/8"-6 | 4 | DWT55027 | DWT55028 | DWT55029 | \$162.36 | DWT54940 | \$487.07 |
| 1-3/8"-12 | 6 | DWT55030 | DWT55031 | DWT55032 | \$163.27 | DWT54941 | \$489.90 |
| 1-1/2"-6 | 4 | DWT55057 | DWT55058 | DWT55059 | \$186.65 | DWT54942 | \$560.46 |
| 1-1/2"-12 | 6 | DWT55063 | DWT55064 | DWT55065 | \$190.12 | DWT54943 | \$570.37 |

HSS HAND TAPS

DWT Series - High Speed Plug Taps (Additional Sizes/Taper & Bottoming Available - POA)

DWT Series

| Size | Part Number | List Price |
|----------|----------------|------------|
| 4-32 | DWTST4-32P | \$22.04 |
| 5-36 | DWTST5-36P | \$22.04 |
| 6-36 | DWTST6-36P | \$20.94 |
| 6-48 | DWTST6-48P | \$20.94 |
| 8-30 | DWTST8-30P | \$21.13 |
| 8-40 | DWTST8-40P | \$21.13 |
| 8-48 | DWTST8-48P | \$21.13 |
| 10-28 | DWTST10-28P | \$21.13 |
| 10-36 | DWTST10-36P | \$21.13 |
| 10-40 | DWTST10-40P | \$21.13 |
| 12-32 | DWTST12-32P | \$22.29 |
| 12-40 | DWTST12-40P | \$22.29 |
| 5/32-32 | DWTST5/32-32P | \$22.90 |
| 3/16-24 | DWTST3/16-24P | \$22.90 |
| 3/16-32 | DWTST3/16-32P | \$22.90 |
| 7/32-32 | DWTST7/32-32P | \$22.90 |
| 1/4-24 | DWTST1/4-24P | \$22.90 |
| 1/4-27 | DWTST1/4-27P | \$22.90 |
| 1/4-32 | DWTST1/4-32P | \$22.90 |
| 1/4-36 | DWTST1/4-36P | \$22.90 |
| 1/4-40 | DWTST1/4-40P | \$22.90 |
| 1/4-48 | DWTST1/4-48P | \$22.90 |
| 9/32-32 | DWTST9/32-32P | \$23.44 |
| 9/32-40 | DWTST9/32-40P | \$23.44 |
| 5/16-16 | DWTST5/16-16P | \$23.44 |
| 5/16-20 | DWTST5/16-20P | \$23.44 |
| 5/16-27 | DWTST5/16-27P | \$23.44 |
| 5/16-28 | DWTST5/16-28P | \$23.44 |
| 5/16-30 | DWTST5/16-30P | \$23.44 |
| 5/16-32 | DWTST5/16-32P | \$23.44 |
| 5/16-36 | DWTST5/16-36P | \$23.44 |
| 5/16-40 | DWTST5/16-40P | \$23.44 |
| 5/16-48 | DWTST5/16-48P | \$23.44 |
| 11/32-32 | DWTST11/32-32P | \$25.54 |
| 3/8-20 | DWTST3/8-20P | \$25.54 |
| 3/8-27 | DWTST3/8-27P | \$25.54 |
| 3/8-28 | DWTST3/8-28P | \$25.54 |
| 3/8-30 | DWTST3/8-30P | \$25.54 |
| 3/8-32 | DWTST3/8-32P | \$25.54 |
| 3/8-36 | DWTST3/8-36P | \$25.54 |
| 3/8-40 | DWTST3/8-40P | \$25.54 |
| 3/8-48 | DWTST3/8-48P | \$25.54 |
| 7/16-16 | DWTST7/16-16P | \$27.54 |
| 7/16-18 | DWTST7/16-18P | \$27.54 |
| 7/16-24 | DWTST7/16-24P | \$27.54 |
| 7/16-27 | DWTST7/16-27P | \$27.54 |
| 7/16-28 | DWTST7/16-28P | \$27.54 |

SPECIAL SIZES



| Size | Part Number | List Price |
|----------|----------------|------------|
| 7/16-32 | DWTST7/16-32P | \$27.54 |
| 7/16-40 | DWTST7/16-40P | \$27.54 |
| 15/32-32 | DWTST15/32-32P | \$29.86 |
| 1/2-12 | DWTST1/2-12P | \$29.86 |
| 1/2-14 | DWTST1/2-14P | \$29.86 |
| 1/2-16 | DWTST1/2-16P | \$29.86 |
| 1/2-18 | DWTST1/2-18P | \$29.86 |
| 1/2-24 | DWTST1/2-24P | \$29.86 |
| 1/2-27 | DWTST1/2-27P | \$29.86 |
| 1/2-28 | DWTST1/2-28P | \$29.86 |
| 1/2-32 | DWTST1/2-32P | \$29.86 |
| 1/2-36 | DWTST1/2-36P | \$29.86 |
| 9/16-16 | DWTST9/16-16P | \$31.43 |
| 9/16-20 | DWTST9/16-20P | \$31.43 |
| 9/16-24 | DWTST9/16-24P | \$31.43 |
| 9/16-27 | DWTST9/16-27P | \$31.43 |
| 9/16-28 | DWTST9/16-28P | \$31.43 |
| 9/16-32 | DWTST9/16-32P | \$31.43 |
| 9/16-40 | DWTST9/16-40P | \$31.43 |
| 37/64-28 | DWTST37/64-28P | \$54.58 |
| 5/8-12 | DWTST5/8-12P | \$34.66 |
| 5/8-16 | DWTST5/8-16P | \$34.66 |
| 5/8-20 | DWTST5/8-20P | \$34.66 |
| 5/8-24 | DWTST5/8-24P | \$34.66 |
| 5/8-27 | DWTST5/8-27P | \$34.66 |
| 5/8-28 | DWTST5/8-28P | \$34.66 |
| 5/8-32 | DWTST5/8-32P | \$34.66 |
| 11/16-18 | DWTST11/16-18P | \$41.84 |
| 11/16-20 | DWTST11/16-20P | \$41.84 |
| 11/16-24 | DWTST11/16-24P | \$41.84 |
| 3/4-12 | DWTST3/4-12P | \$45.91 |
| 3/4-20 | DWTST3/4-20P | \$45.91 |
| 3/4-24 | DWTST3/4-24P | \$45.91 |
| 3/4-28 | DWTST3/4-28P | \$45.91 |
| 3/4-32 | DWTST3/4-32P | \$45.91 |
| 13/16-16 | DWTST13/16-16P | \$50.33 |
| 13/16-18 | DWTST13/16-18P | \$50.33 |
| 13/16-20 | DWTST13/16-20P | \$50.33 |
| 13/16-32 | DWTST13/16-32P | \$50.33 |
| 7/8-12 | DWTST7/8-12P | \$57.85 |
| 7/8-16 | DWTST7/8-16P | \$57.85 |
| 7/8-18 | DWTST7/8-18P | \$57.85 |
| 7/8-20 | DWTST7/8-20P | \$57.85 |
| 7/8-24 | DWTST7/8-24P | \$57.85 |
| 7/8-27 | DWTST7/8-27P | \$57.85 |
| 7/8-28 | DWTST7/8-28P | \$57.85 |
| 7/8-32 | DWTST7/8-32P | \$57.85 |

| Size | Part Number | List Price |
|-----------|-----------------|------------|
| 15/16-16 | DWTST15/16-16P | \$60.40 |
| 15/16-20 | DWTST15/16-20P | \$60.40 |
| 1-16 | DWTST1-16P | \$76.47 |
| 1-18 | DWTST1-18P | \$76.47 |
| 1-20 | DWTST1-20P | \$76.47 |
| 1-24 | DWTST1-24P | \$76.47 |
| 1-28 | DWTST1-28P | \$76.47 |
| 1-32 | DWTST1-32P | \$76.47 |
| 1-1/16-16 | DWTST1-1/16-16P | \$120.20 |
| 1-1/16-18 | DWTST1-1/16-18P | \$120.20 |
| 1-1/8-16 | DWTST1-1/8-16P | \$136.45 |
| 1-1/8-18 | DWTST1-1/8-18P | \$136.45 |
| 1-1/8-20 | DWTST1-1/8-20P | \$136.45 |
| 1-3/16-12 | DWTST1-3/16-12P | \$155.64 |
| 1-3/16-16 | DWTST1-3/16-16P | \$155.64 |
| 1-3/16-24 | DWTST1-3/16-24P | \$155.64 |
| 1-1/4-18 | DWTST1-1/4-18P | \$155.64 |
| 1-1/4-24 | DWTST1-1/4-24P | \$155.64 |
| 1-1/4-27 | DWTST1-1/4-27P | \$155.64 |
| 1-1/4-32 | DWTST1-1/4-32P | \$155.64 |
| 1-5/16-12 | DWTST1-5/16-12P | \$194.56 |
| 1-3/8-14 | DWTST1-3/8-14P | \$194.56 |
| 1-3/8-16 | DWTST1-3/8-16P | \$194.56 |
| 1-3/8-18 | DWTST1-3/8-18P | \$194.56 |
| 1-1/2-16 | DWTST1-1/2-16P | \$238.48 |
| 1-1/2-18 | DWTST1-1/2-18P | \$238.48 |
| 1-5/8-10 | DWTST1-5/8-10P | \$273.64 |
| 1-5/8-12 | DWTST1-5/8-12P | \$273.64 |
| 1-3/4-5 | DWTST1-3/4-5P | \$290.52 |
| 1-3/4-12 | DWTST1-3/4-12P | \$290.52 |
| 1-3/4-16 | DWTST1-3/4-16P | \$290.52 |
| 1-3/4-18 | DWTST1-3/4-18P | \$290.52 |
| 1-3/4-20 | DWTST1-3/4-20P | \$290.52 |
| 2"-4-1/2 | DWTST2-4-1/2P | \$431.25 |
| 2"-12 | DWTST2-12P | \$431.25 |
| 2-1/8-12 | DWTST2-1/8-12P | \$495.90 |
| 2-1/8-16 | DWTST2-1/8-16P | \$495.90 |
| 2-1/4-12 | DWTST2-1/4-12P | \$534.15 |
| 2-1/4-16 | DWTST2-1/4-16P | \$534.15 |
| 2-1/4-18 | DWTST2-1/4-18P | \$534.15 |
| 2-3/8-12 | DWTST2-3/8-12P | \$572.53 |
| 2-3/8-16 | DWTST2-3/8-16P | \$572.53 |
| 2-1/2-4 | DWTST2-1/2-4P | \$733.23 |
| 2-1/2-12 | DWTST2-1/2-12P | \$733.23 |
| 2-3/4-12 | DWTST2-3/4-12P | \$892.10 |
| 2-7/8-12 | DWTST2-7/8-12P | \$1,014.13 |
| 3"-12 | DWTST3-12P | \$1,123.07 |

8 PITCH SIZES

| Size | Part Number | List Price |
|----------|----------------|------------|
| 1-1/16-8 | DWTST1-1/16-8P | \$100.38 |
| 1-1/8-8 | DWTST1-1/8-8P | \$98.60 |
| 1-3/16-8 | DWTST1-3/16-8P | \$132.79 |
| 1-1/4-8 | DWTST1-1/4-8P | \$125.65 |
| 1-5/16-8 | DWTST1-5/16-8P | \$158.32 |
| 1-3/8-8 | DWTST1-3/8-8P | \$158.32 |
| 1-7/16-8 | DWTST1-7/16-8P | \$190.85 |
| 1-1/2-8 | DWTST1-1/2-8P | \$198.85 |
| 1-5/8-8 | DWTST1-5/8-8P | \$224.72 |
| 1-3/4-8 | DWTST1-3/4-8P | \$243.58 |

| Size | Part Number | List Price |
|---------|---------------|------------|
| 1-7/8-8 | DWTST1-7/8-8P | \$271.97 |
| 2"-8 | DWTST2-8P | \$319.59 |
| 2-1/8-8 | DWTST2-1/8-8P | \$435.23 |
| 2-1/4-8 | DWTST2-1/4-8P | \$475.50 |
| 2-3/8-8 | DWTST2-3/8-8P | \$482.07 |
| 2-1/2-8 | DWTST2-1/2-8P | \$619.35 |
| 2-5/8-8 | DWTST2-5/8-8P | \$724.21 |
| 2-3/4-8 | DWTST2-3/4-8P | \$786.42 |
| 2-7/8-8 | DWTST2-7/8-8P | \$886.35 |
| 3"-8 | DWTST3-8P | \$962.07 |

| Size | Part Number | List Price |
|---------|---------------|------------|
| 3-1/8-8 | DWTST3-1/8-8P | \$1,118.75 |
| 3-1/4-8 | DWTST3-1/4-8P | \$1,192.68 |
| 3-3/8-8 | DWTST3-3/8-8P | \$1,322.09 |
| 3-1/2-8 | DWTST3-1/2-8P | \$1,370.75 |
| 3-5/8-8 | DWTST3-5/8-8P | \$1,578.80 |
| 3-3/4-8 | DWTST3-3/4-8P | \$1,626.04 |
| 3-7/8-8 | DWTST3-7/8-8P | \$1,770.44 |
| 4"-8 | DWTST4-8P | \$1,963.98 |

HSS METRIC HAND TAPS

DWT Series - High Speed Metric Hand Taps



DWT Series

| Size | No. of Flutes | Taper | Plug | Bottom | List Price | Set | List Price |
|----------|---------------|-------------|-------------|-------------|------------|-------------|------------|
| 1.6x0.35 | 2 | DWTT1.6X.35 | DWTP1.6X.35 | DWTB1.6X.35 | \$16.07 | DWTS1.6X.35 | \$48.21 |
| 1.8x0.35 | 2 | DWTT1.8X.35 | DWTP1.8X.35 | DWTB1.8X.35 | \$16.07 | DWTS1.8X.35 | \$48.21 |
| 2x0.4 | 3 | DWTT2X.4 | DWTP2X.4 | DWTB2X.4 | \$16.07 | DWTS2X.4 | \$48.21 |
| 2.2x0.45 | 3 | DWTT2.2X.45 | DWTP2.2X.45 | DWTB2.2X.45 | \$9.90 | DWTS2.2X.45 | \$29.73 |
| 2.5x0.45 | 3 | DWTT2.5X.45 | DWTP2.5X.45 | DWTB2.5X.45 | \$9.90 | DWTS2.5X.45 | \$29.73 |
| 3x0.5 | 3 | DWTT3X.5 | DWTP3X.5 | DWTB3X.5 | \$8.28 | DWTS3X.5 | \$24.84 |
| 3.5x0.6 | 3 | DWTT3.5X.6 | DWTP3.5X.6 | DWTB3.5X.6 | \$6.78 | DWTS3.5X.6 | \$20.37 |
| 4x0.7 | 4 | DWTT4X.7 | DWTP4X.7 | DWTB4X.7 | \$6.78 | DWTS4X.7 | \$20.37 |
| 4.5x0.75 | 4 | DWTT4.5X.75 | DWTP4.5X.75 | DWTB4.5X.75 | \$6.78 | DWTS4.5X.75 | \$20.37 |
| 5x0.8 | 4 | DWTT5X.8 | DWTP5X.8 | DWTB5X.8 | \$6.78 | DWTS5X.8 | \$20.37 |
| 6x1 | 4 | DWTT6X1 | DWTP6X1 | DWTB6X1 | \$7.21 | DWTS6X1 | \$21.65 |
| 7x1 | 4 | DWTT7X1 | DWTP7X1 | DWTB7X1 | \$7.82 | DWTS7X1 | \$23.48 |
| 8x1 | 4 | DWTT8X1 | DWTP8X1 | DWTB8X1 | \$7.82 | DWTS8X1 | \$23.48 |
| 8x1.25 | 4 | DWTT8X1.25 | DWTP8X1.25 | DWTB8X1.25 | \$7.82 | DWTS8X1.25 | \$23.48 |
| 10x1.25 | 4 | DWTT10X1.25 | DWTP10X1.25 | DWTB10X1.25 | \$14.76 | DWTS10X1.25 | \$44.31 |
| 10x1.5 | 4 | DWTT10X1.5 | DWTP10X1.5 | DWTB10X1.5 | \$14.76 | DWTS10X1.5 | \$44.31 |
| 12x1.25 | 4 | DWTT12X1.25 | DWTP12X1.25 | DWTB12X1.25 | \$17.39 | DWTS12X1.25 | \$52.18 |
| 12x1.75 | 4 | DWTT12X1.75 | DWTP12X1.75 | DWTB12X1.75 | \$17.39 | DWTS12X1.75 | \$52.18 |
| 14x1.25 | 4 | DWTT14X1.25 | DWTP14X1.25 | DWTB14X1.25 | \$25.91 | DWTS14X1.25 | \$77.70 |
| 14x1.5 | 4 | DWTT14X1.5 | DWTP14X1.5 | DWTB14X1.5 | \$25.91 | DWTS14X1.5 | \$77.70 |
| 14x2 | 4 | DWTT14X2 | DWTP14X2 | DWTB14X2 | \$25.91 | DWTS14X2 | \$77.70 |
| 16x1.5 | 4 | DWTT16X1.5 | DWTP16X1.5 | DWTB16X1.5 | \$31.75 | DWTS16X1.5 | \$95.25 |
| 16x2 | 4 | DWTT16X2 | DWTP16X2 | DWTB16X2 | \$31.75 | DWTS16X2 | \$95.25 |
| 18x1.5 | 4 | DWTT18X1.5 | DWTP18X1.5 | DWTB18X1.5 | \$42.65 | DWTS18X1.5 | \$127.94 |
| 18x2.5 | 4 | DWTT18X2.5 | DWTP18X2.5 | DWTB18X2.5 | \$42.65 | DWTS18X2.5 | \$127.94 |
| 20x1.5 | 4 | DWTT20X1.5 | DWTP20X1.5 | DWTB20X1.5 | \$57.91 | DWTS20X1.5 | \$173.71 |
| 20x2.5 | 4 | DWTT20X2.5 | DWTP20X2.5 | DWTB20X2.5 | \$57.91 | DWTS20X2.5 | \$173.71 |
| 22x1.5 | 4 | DWTT22X1.5 | DWTP22X1.5 | DWTB22X1.5 | \$59.38 | DWTS22X1.5 | \$178.16 |
| 22x2.5 | 4 | DWTT22X2.5 | DWTP22X2.5 | DWTB22X2.5 | \$59.38 | DWTS22X2.5 | \$178.16 |
| 24x2 | 4 | DWTT24X2 | DWTP24X2 | DWTB24X2 | \$80.60 | DWTS24X2 | \$241.84 |
| 24x3 | 4 | DWTT24X3 | DWTP24X3 | DWTB24X3 | \$80.60 | DWTS24X3 | \$241.84 |
| 27x2 | 4 | DWTT27X2 | DWTP27X2 | DWTB27X2 | \$128.11 | DWTS27X2 | \$384.33 |
| 27x3 | 4 | DWTT27X3 | DWTP27X3 | DWTB27X3 | \$128.11 | DWTS27X3 | \$384.33 |
| 30x2 | 4 | DWTT30X2 | DWTP30X2 | DWTB30X2 | \$143.08 | DWTS30X2 | \$429.22 |
| 30x3.5 | 4 | DWTT30X3.5 | DWTP30X3.5 | DWTB30X3.5 | \$139.99 | DWTS30X3.5 | \$419.97 |
| 33x2 | 4 | DWTT33X2 | DWTP33X2 | DWTB33X2 | \$181.94 | DWTS33X2 | \$545.84 |
| 33x3.5 | 4 | DWTT33X3.5 | DWTP33X3.5 | DWTB33X3.5 | \$181.94 | DWTS33X3.5 | \$545.84 |
| 36x3 | 4 | DWTT36X3 | DWTP36X3 | DWTB36X3 | \$224.48 | DWTS36X3 | \$673.42 |
| 36x4 | 4 | DWTT36X4 | DWTP36X4 | DWTB36X4 | \$224.48 | DWTS36X4 | \$673.42 |
| 39x3 | 6 | DWTT39X3 | DWTP39X3 | DWTB39X3 | \$244.52 | DWTS39X3 | \$733.54 |
| 39x4 | 6 | DWTT39X4 | DWTP39X4 | DWTB39X4 | \$244.52 | DWTS39X4 | \$733.54 |

T/A Series

T/A Series - High Speed Metric Hand Taps

| Size | No. of Flutes | Taper | Plug | Bottom | List Price | Set | List Price |
|---------|---------------|-------------|-------------|-------------|------------|-------------|------------|
| 3x.5 | 3 | T/AT3X.5 | T/AP3X.5 | T/AB3X.5 | \$15.44 | T/AS3X.5 | \$46.28 |
| 4x.7 | 4 | T/AT4X.7 | T/AP4X.7 | T/AB4X.7 | \$12.74 | T/AS4X.7 | \$38.21 |
| 5x.8 | 4 | T/AT5X.8 | T/AP5X.8 | T/AB5X.8 | \$12.74 | T/AS5X.8 | \$38.21 |
| 6x1 | 4 | T/AT6X1 | T/AP6X1 | T/AB6X1 | \$13.46 | T/AS6X1 | \$40.39 |
| 7x1 | 4 | T/AT7X1 | T/AP7X1 | T/AB7X1 | \$14.66 | T/AS7X1 | \$43.99 |
| 8x1.25 | 4 | T/AT8X1.25 | T/AP8X1.25 | T/AB8X1.25 | \$14.66 | T/AS8X1.25 | \$43.99 |
| 10x1.5 | 4 | T/AT10X1.5 | T/AP10X1.5 | T/AB10X1.5 | \$27.63 | T/AS10X1.5 | \$82.89 |
| 12x1.75 | 4 | T/AT12X1.75 | T/AP12X1.75 | T/AB12X1.75 | \$32.40 | T/AS12X1.75 | \$97.21 |
| 14x2 | 4 | T/AT14X2 | T/AP14X2 | T/AB14X2 | \$48.45 | T/AS14X2 | \$145.34 |
| 16x2 | 4 | T/AT16X2 | T/AP16X2 | T/AB16X2 | \$59.02 | T/AS16X2 | \$177.07 |
| 18x2.5 | 4 | T/AT18X2.5 | T/AP18X2.5 | T/AB18X2.5 | \$79.46 | T/AS18X2.5 | \$238.40 |
| 20x2.5 | 4 | T/AT20X2.5 | T/AP20X2.5 | T/AB20X2.5 | \$102.81 | T/AS20X2.5 | \$308.43 |
| 24x3 | 4 | T/AT24X3 | T/AP24X3 | T/AB24X3 | \$150.44 | T/AS24X3 | \$451.31 |

HSS METRIC HAND TAPS

DWT Series - High Speed Metric Taps (Additional Sizes Available - POA)

DWT Series

SPECIAL METRIC SIZES



| Size | Part Number | List Price | Size | Part Number | List Price | Size | Part Number | List Price |
|---------|---------------|------------|---------|---------------|------------|---------|---------------|------------|
| 1x.20 | DWTSMT1X.2 | \$45.48 | 12x.50 | DWTSMT12X.5 | \$37.24 | 22x1 | DWTSMT22X1 | \$98.73 |
| 1x.25 | DWTSMT1X.25 | \$45.48 | 12x.75 | DWTSMT12X.75 | \$37.24 | 22x1.25 | DWTSMT22X1.25 | \$98.73 |
| 1.2x.20 | DWTSMT1.2X.2 | \$45.48 | 12x1 | DWTSMT12X1 | \$37.24 | 22x1.75 | DWTSMT22X1.75 | \$98.73 |
| 1.2x.25 | DWTSMT1.2X.25 | \$45.48 | 12x1.50 | DWTSMT12X1.5 | \$21.80 | 22x2 | DWTSMT22X2 | \$98.73 |
| 1.4x.20 | DWTSMT1.4X.2 | \$45.48 | 12x2 | DWTSMT12X2 | \$37.24 | 23x1 | DWTSMT23X1 | \$103.54 |
| 1.4x.30 | DWTSMT1.4X.3 | \$45.48 | 13x.50 | DWTSMT13X.5 | \$41.39 | 23x1.50 | DWTSMT23X1.5 | \$103.54 |
| 1.5x.35 | DWTSMT1.5X.35 | \$25.29 | 13x1 | DWTSMT13X1 | \$41.39 | 23x2 | DWTSMT23X2 | \$103.54 |
| 1.6x.20 | DWTSMT1.6X.2 | \$45.48 | 13x1.25 | DWTSMT13X1.25 | \$41.39 | 23x2.50 | DWTSMT23X2.5 | \$103.54 |
| 1.7x.20 | DWTSMT1.7X.2 | \$41.39 | 13x1.50 | DWTSMT13X1.5 | \$41.39 | 24x1 | DWTSMT24X1 | \$105.94 |
| 1.7x.35 | DWTSMT1.7X.35 | \$41.39 | 13x2 | DWTSMT13X2 | \$41.39 | 24x1.25 | DWTSMT24X1.25 | \$105.94 |
| 1.8x.20 | DWTSMT1.8X.2 | \$34.27 | 14x.50 | DWTSMT14X.5 | \$45.52 | 24x1.50 | DWTSMT24X1.5 | \$89.92 |
| 2x.20 | DWTSMT2X.2 | \$34.27 | 14x.75 | DWTSMT14X.75 | \$45.52 | 24x2.50 | DWTSMT24X2.5 | \$105.94 |
| 2x.25 | DWTSMT2X.25 | \$34.27 | 14x1 | DWTSMT14X1 | \$45.52 | 25x1 | DWTSMT25X1 | \$115.55 |
| 2x.45 | DWTSMT2X.45 | \$17.83 | 14x1.75 | DWTSMT14X1.75 | \$45.52 | 25x1.25 | DWTSMT25X1.25 | \$115.55 |
| 2.3x.40 | DWTSMT2.3X.4 | \$11.97 | 15x.50 | DWTSMT15X.5 | \$49.66 | 25x1.50 | DWTSMT25X1.5 | \$115.55 |
| 2.5x.50 | DWTSMT2.5X.5 | \$30.15 | 15x1 | DWTSMT15X1 | \$49.66 | 25x3 | DWTSMT25X3 | \$115.55 |
| 2.6x.35 | DWTSMT2.6X.35 | \$30.15 | 15x1.25 | DWTSMT15X1.25 | \$49.66 | 26x1.50 | DWTSMT26X1.5 | \$179.71 |
| 2.6x.45 | DWTSMT2.6X.45 | \$11.97 | 15x1.50 | DWTSMT15X1.5 | \$49.66 | 26x2 | DWTSMT26X2 | \$179.71 |
| 3x.35 | DWTSMT3X.35 | \$30.15 | 15x2 | DWTSMT15X2 | \$49.66 | 26x2.50 | DWTSMT26X2.5 | \$179.71 |
| 3x.60 | DWTSMT3X.6 | \$9.25 | 16x.50 | DWTSMT16X.5 | \$57.23 | 26x3 | DWTSMT26X3 | \$179.71 |
| 3.5x.50 | DWTSMT3.5X.5 | \$30.15 | 16x.75 | DWTSMT16X.75 | \$57.23 | 27x1 | DWTSMT27X1 | \$189.26 |
| 4x.50 | DWTSMT4X.5 | \$8.86 | 16x1 | DWTSMT16X1 | \$57.23 | 27x1.25 | DWTSMT27X1.25 | \$189.26 |
| 4x.75 | DWTSMT4X.75 | \$28.95 | 16x1.25 | DWTSMT16X1.25 | \$57.23 | 27x1.50 | DWTSMT27X1.5 | \$189.26 |
| 4.5x.50 | DWTSMT4.5X.5 | \$28.95 | 16x1.75 | DWTSMT16X1.75 | \$57.23 | 27x2.50 | DWTSMT27X2.5 | \$189.26 |
| 5x.50 | DWTSMT5X.5 | \$28.95 | 16x2.50 | DWTSMT16X2.5 | \$57.23 | 28x1 | DWTSMT28X1 | \$233.35 |
| 5x.70 | DWTSMT5X.7 | \$28.95 | 17x.50 | DWTSMT17X.5 | \$58.99 | 28x1.50 | DWTSMT28X1.5 | \$233.35 |
| 5x.75 | DWTSMT5X.75 | \$28.95 | 17x1 | DWTSMT17X1 | \$58.99 | 28x2 | DWTSMT28X2 | \$233.35 |
| 5x.90 | DWTSMT5X.9 | \$7.99 | 17x1.50 | DWTSMT17X1.5 | \$58.99 | 28x2.50 | DWTSMT28X2.5 | \$233.35 |
| 5x1 | DWTSMT5X1 | \$28.95 | 17x1.75 | DWTSMT17X1.75 | \$58.99 | 28x3 | DWTSMT28X3 | \$233.35 |
| 5.5x.90 | DWTSMT5.5X.9 | \$7.99 | 17x2 | DWTSMT17X2 | \$58.99 | 30x1 | DWTSMT30X1 | \$251.50 |
| 6x.50 | DWTSMT6X.5 | \$28.95 | 18x.50 | DWTSMT18X.5 | \$66.23 | 30x1.25 | DWTSMT30X1.25 | \$251.50 |
| 6x.75 | DWTSMT6X.75 | \$8.30 | 18x.75 | DWTSMT18X.75 | \$66.23 | 30x1.50 | DWTSMT30X1.5 | \$160.12 |
| 6x1.25 | DWTSMT6X1.25 | \$28.95 | 18x1 | DWTSMT18X1 | \$47.31 | 30x2.50 | DWTSMT30X2.5 | \$251.50 |
| 6.3x1 | DWTSMT6.3X1 | \$8.30 | 18x1.25 | DWTSMT18X1.25 | \$66.23 | 30x3 | DWTSMT30X3 | \$251.50 |
| 7x.50 | DWTSMT7X.5 | \$30.03 | 18x1.75 | DWTSMT18X1.75 | \$66.23 | 32x1.50 | DWTSMT32X1.5 | \$259.25 |
| 7x.75 | DWTSMT7X.75 | \$30.03 | 18x2 | DWTSMT18X2 | \$47.31 | 32x2.50 | DWTSMT32X2.5 | \$259.25 |
| 7x1.25 | DWTSMT7X1.25 | \$30.03 | 19x1 | DWTSMT19X1 | \$71.04 | 33x1 | DWTSMT33X1 | \$274.81 |
| 8x.50 | DWTSMT8X.5 | \$31.32 | 19x1.50 | DWTSMT19X1.5 | \$71.04 | 33x1.50 | DWTSMT33X1.5 | \$274.81 |
| 8x.75 | DWTSMT8X.75 | \$31.32 | 19x1.75 | DWTSMT19X1.75 | \$71.04 | 33x3 | DWTSMT33X3 | \$274.81 |
| 8x1.50 | DWTSMT8X1.5 | \$31.32 | 19x2.50 | DWTSMT19X2.5 | \$71.04 | 34x1.50 | DWTSMT34X1.5 | \$285.18 |
| 9x.75 | DWTSMT9X.75 | \$33.10 | 20x.50 | DWTSMT20X.5 | \$84.28 | 35x3 | DWTSMT35X3 | \$305.92 |
| 9x1 | DWTSMT9X1 | \$10.18 | 20x.75 | DWTSMT20X.75 | \$84.28 | 36x1.50 | DWTSMT36X1.5 | \$321.87 |
| 9x1.25 | DWTSMT9X1.25 | \$33.10 | 20x1 | DWTSMT20X1 | \$64.28 | 38x1.50 | DWTSMT38X1.5 | \$356.79 |
| 9x1.50 | DWTSMT9X1.5 | \$33.10 | 20x1.25 | DWTSMT20X1.25 | \$84.28 | 38x3 | DWTSMT38X3 | \$356.79 |
| 10x.50 | DWTSMT10X.5 | \$34.27 | 20x1.75 | DWTSMT20X1.75 | \$84.28 | 38x4 | DWTSMT38X4 | \$356.79 |
| 10x.75 | DWTSMT10X.75 | \$34.27 | 20x2 | DWTSMT20X2 | \$64.28 | 39x1.50 | DWTSMT39X1.5 | \$396.76 |
| 10x1 | DWTSMT10X1 | \$16.40 | 21x1 | DWTSMT21X1 | \$87.88 | 40x4 | DWTSMT40X4 | \$419.18 |
| 10x1.75 | DWTSMT10X1.75 | \$34.27 | 21x1.25 | DWTSMT21X1.25 | \$87.88 | 42x1.50 | DWTSMT42X1.5 | \$325.30 |
| 11x.50 | DWTSMT11X.5 | \$35.45 | 21x1.50 | DWTSMT21X1.5 | \$87.88 | 42x3 | DWTSMT42X3 | \$446.76 |
| 11x.75 | DWTSMT11X.75 | \$35.45 | 21x1.75 | DWTSMT21X1.75 | \$87.88 | 45x1.50 | DWTSMT45X1.5 | \$325.30 |
| 11x1 | DWTSMT11X1 | \$35.45 | 21x2 | DWTSMT21X2 | \$87.88 | 45x4.50 | DWTSMT45X4.5 | \$325.30 |
| 11x1.25 | DWTSMT11X1.25 | \$35.45 | 21x2.50 | DWTSMT21X2.5 | \$87.88 | 46x4.50 | DWTSMT46X4.5 | \$507.65 |
| 11x1.50 | DWTSMT11X1.5 | \$16.40 | 22x.50 | DWTSMT22X.5 | \$98.73 | 48x5 | DWTSMT48X5 | \$338.63 |
| 11x1.75 | DWTSMT11X1.75 | \$35.45 | 22x.75 | DWTSMT22X.75 | \$98.73 | | | |

HAND TAP AND DRILL SETS IN POUCH

POU Series Hand Tap and Drill Set

Each set comes with one DWT high speed steel tap (plug style) and matching DWDN high speed steel black oxide drill bit in a plastic pouch. Sets with a drill bit over 1/2" come with a DWDRSD reduced shank drill bit with a 1/2" shank.

POU Series

| Part Number | HSS Plug Tap | HSS Drill | List Price |
|-------------|--------------|-----------------------|------------|
| POU0-80 | #0-80 | 3-64" | \$12.41 |
| POU1-64 | #1-64 | #53 | \$11.92 |
| POU1-72 | #1-72 | #53 | \$11.92 |
| POU2-56 | #2-56 | #51 | \$10.36 |
| POU2-64 | #2-64 | #50 | \$11.13 |
| POU3-48 | #3-48 | #47 | \$8.13 |
| POU3-56 | #3-56 | #45 | \$8.56 |
| POU4-36 | #4-36 | #44 | \$6.94 |
| POU4-40 | #4-40 | #43 | \$6.89 |
| POU4-48 | #4-48 | #42 | \$6.94 |
| POU5-40 | #5-40 | #38 | \$6.83 |
| POU5-44 | #5-44 | #37 | \$6.83 |
| POU6-32 | #6-32 | #36 | \$5.37 |
| POU6-40 | #6-40 | #33 | \$5.64 |
| POU8-32 | #8-32 | #29 | \$5.52 |
| POU10-24 | #10-24 | #25 | \$5.72 |
| POU10-32 | #10-32 | #21 | \$5.79 |
| POU12-24 | #12-24 | #16 | \$6.38 |
| POU1/4-20 | 1/4"-20 | #7 | \$6.46 |
| POU1/4-28 | 1/4"-28 | #3 | \$6.63 |
| POU5/16-18 | 5/16"-18 | "F" | \$8.39 |
| POU5/16-24 | 5/16"-24 | "I" | \$8.62 |
| POU3/8-16 | 3/8"-16 | 5/16" | \$9.28 |
| POU3/8-24 | 3/8"-24 | "Q" | \$10.47 |
| POU7/16-14 | 7/16"-14 | "U" | \$16.05 |
| POU7/16-20 | 7/16"-20 | 25/64" | \$15.28 |
| POU1/2-13 | 1/2"-13 | 27/64" | \$16.90 |
| POU1/2-20 | 1/2"-20 | 29/64" | \$17.54 |
| POU9/16-12 | 9/16"-12 | 31/64" | \$26.16 |
| POU9/16-18 | 9/16"-18 | 33/64" X 1/2" Shank | \$31.80 |
| POU5/8-11 | 5/8"-11 | 17/32" X 1/2" Shank | \$36.59 |
| POU5/8-18 | 5/8"-18 | 37/64" X 1/2" Shank | \$38.06 |
| POU11/16-11 | 11/16"-11 | 19/32" X 1/2" Shank | \$43.53 |
| POU11/16-16 | 11/16"-16 | 5/8" X 1/2" Shank | \$43.84 |
| POU3/4-10 | 3/4"-10 | 21/32" X 1/2" Shank | \$48.96 |
| POU3/4-16 | 3/4"-16 | 11/16" X 1/2" Shank | \$49.44 |
| POU7/8-9 | 7/8"-9 | 49/64" X 1/2" Shank | \$66.48 |
| POU7/8-14 | 7/8"-14 | 13/16" X 1/2" Shank | \$67.36 |
| POU1-8 | 1"-8 | 7/8" X 1/2" Shank | \$85.57 |
| POU1-12 | 1"-12 | 59/64" X 1/2" Shank | \$88.96 |
| POU1-14 | 1"-14 | 15/16" X 1/2" Shank | \$88.96 |
| POU1-1/8-7 | 1-1/8"-7 | 63/64 X 1/2" Shank | \$130.13 |
| POU1-1/8-12 | 1-1/8"-12 | 1-3/64" X 1/2" Shank | \$143.73 |
| POU1-1/4-7 | 1-1/4"-7 | 1-7/64" X 1/2" Shank | \$166.99 |
| POU1-1/4-12 | 1-1/4"-12 | 1-11/64" X 1/2" Shank | \$173.74 |
| POU1-3/8-6 | 1-3/8"-6 | 1-7/32" X 1/2" Shank | \$212.88 |
| POU1-3/8-12 | 1-3/8"-12 | 1-19/64" X 1/2" Shank | \$221.73 |
| POU1-1/2-6 | 1-1/2"-6 | 1-11/32" X 1/2" Shank | \$253.83 |
| POU1-1/2-12 | 1-1/2"-12 | 1-27/64" X 1/2" Shank | \$264.04 |



METRIC HAND TAP AND DRILL SETS IN POUCH

POU Series Hand Tap and Drill Set

Each set comes with one DWT high speed steel tap (plug style) and matching DWDN high speed steel black oxide drill bit in a plastic pouch. Sets with a drill bit over 1/2" come with a DWDRSD reduced shank drill bit with a 1/2" shank.

| POU Series | | | |
|-------------|--------------|-----------------------|------------|
| Part Number | HSS Plug Tap | HSS Drill | List Price |
| POUM1.6X.35 | m1.6x.35 | 1.25 mm | \$17.51 |
| POUM1.8X.35 | m1.8x.35 | 1.45 mm | \$17.51 |
| POUM2X.4 | m2x.4 | 1.60 mm | \$17.51 |
| POUM2.2X.45 | m2.2x.45 | 1.75 mm | \$11.22 |
| POUM2.5X.45 | m2.5x.45 | 2.05 mm | \$11.22 |
| POUM3X.5 | m3x.5 | 2.50 mm | \$9.57 |
| POUM3.5X.6 | m3.5x.6 | 2.90 mm | \$8.13 |
| POUM4X.7 | m4x.7 | 3.30 mm | \$8.24 |
| POUM4.5X.75 | m4.5x.75 | 3.75 mm | \$8.35 |
| POUM5X.8 | m5x.8 | 4.20 mm | \$8.45 |
| POUM6X1 | m6x1 | 5.00 mm | \$9.20 |
| POUM7X1 | m7x1 | 6.00 mm | \$10.31 |
| POUM8X1 | m8x1 | 7.00 mm | \$11.02 |
| POUM8X1.25 | m8x1.25 | 6.75 mm | \$11.02 |
| POUM10X1.25 | m10x1.25 | 8.75 mm | \$19.86 |
| POUM10X1.5 | m10x1.5 | 8.50 mm | \$19.01 |
| POUM12X1.25 | m12x1.25 | 10.75 mm | \$26.30 |
| POUM12X1.75 | m12x1.75 | 10.25 mm | \$24.90 |
| POUM14X1.5 | m14x1.5 | 12.50 mm | \$36.27 |
| POUM14X2 | m14x2 | 12.00 mm | \$35.93 |
| POUM16X1.5 | m16x1.5 | 14.50 mm x 1/2" Shank | \$59.04 |
| POUM16X2 | m16x2 | 14.00 mm x 1/2" Shank | \$59.04 |
| POUM18X1.5 | m18x1.5 | 16.50 mm x 1/2" Shank | \$75.29 |
| POUM18X2.5 | m18x2.5 | 15.50 mm x 1/2" Shank | \$73.36 |
| POUM20X1.5 | m20x1.5 | 18.50 mm x 1/2" Shank | \$95.49 |
| POUM20X2.5 | m20x2.5 | 17.50 mm x 1/2" Shank | \$92.12 |
| POUM22X1.5 | m22x1.5 | 20.50 mm x 1/2" Shank | \$103.56 |
| POUM22X2.5 | m22x2.5 | 19.50 mm x 1/2" Shank | \$98.60 |
| POUM24X2 | m24x2 | 22.00 mm x 1/2" Shank | \$126.78 |
| POUM24X3 | m24x3 | 21.00 mm x 1/2" Shank | \$125.18 |
| POUM27X2 | m27x2 | 25.00 mm x 1/2" Shank | \$189.26 |
| POUM27X3 | m27x3 | 24.00 mm x 1/2" Shank | \$183.21 |
| POUM30X2 | m30x2 | 28.00 mm x 1/2" Shank | \$246.28 |
| POUM30X3.5 | m30x3.5 | 26.50 mm x 1/2" Shank | \$232.88 |
| POUM33X2 | m33x2 | 31.00 mm x 1/2" Shank | \$306.62 |
| POUM33X3.5 | m33x3.5 | 29.50 mm x 1/2" Shank | \$298.07 |
| POUM36X3 | m36x3 | 33.00 mm x 1/2" Shank | \$377.40 |
| POUM36X4 | m36x4 | 32.00 mm x 1/2" Shank | \$369.01 |



HSS SPIRAL POINTED TAPS

DWT Series - High Speed Gun Taps

Spiral-Pointed taps, or Machine Taps, were originated to solve the problem of tap breakage in through hole tapping. The Machine Tap shoots chips ahead of the cutting action, thus reducing loading and clogging in the flutes. They are recommended for use in through or blind holes which allow for chip accumulation in the bottom of the hole. Ideal for threading a wide variety of ductile materials, copper and copper alloys, brass and non-metallics.

| DWT Series | | | |
|------------|---------------|-------------|------------|
| Size | No. of Flutes | Part Number | List Price |
| 0-80 | 2 | DWT57009 | \$14.43 |
| 1-64 | 2 | DWT57021 | \$13.14 |
| 1-72 | 2 | DWT57023 | \$13.14 |
| 2-56 | 2 | DWT57031 | \$11.03 |
| 2-64 | 2 | DWT57033 | \$12.05 |
| 3-48 | 2 | DWT57038 | \$8.93 |
| 3-56 | 2 | DWT57041 | \$9.76 |
| 4-36 | 2 | DWT57046 | \$7.74 |
| 4-40 | 2 | DWT57048 | \$7.16 |
| 4-48 | 2 | DWT57051 | \$7.82 |
| 5-40 | 2 | DWT57062 | \$7.16 |
| 5-44 | 2 | DWT57064 | \$7.44 |
| 6-32 | 2 | DWT57072 | \$5.99 |
| 6-40 | 2 | DWT57076 | \$6.32 |
| 8-32 | 2 | DWT57085 | \$5.99 |
| 8-36 | 2 | DWT57089 | \$6.32 |
| 10-24 | 2 | DWT57097 | \$5.99 |
| 10-32 | 2 | DWT57104 | \$5.99 |
| 12-24 | 2 | DWT57112 | \$6.86 |
| 12-28 | 2 | DWT57114 | \$6.86 |
| 14-24 | 2 | DWT57115 | \$13.14 |
| 1/4"-20 | 2 | DWT57129 | \$5.99 |

| Size | No. of Flutes | Part Number | List Price |
|-----------|---------------|-------------|------------|
| 1/4"-28 | 2 | DWT57139 | \$5.99 |
| 5/16"-18 | 2 | DWT57151 | \$6.65 |
| 5/16"-24 | 2 | DWT57160 | \$6.65 |
| 3/8"-16 | 3 | DWT57176 | \$7.71 |
| 3/8"-24 | 3 | DWT57181 | \$7.71 |
| 7/16"-14 | 3 | DWT57192 | \$13.14 |
| 7/16"-20 | 3 | DWT57195 | \$13.14 |
| 1/2"-13 | 3 | DWT57215 | \$13.36 |
| 1/2"-20 | 3 | DWT57220 | \$13.36 |
| 9/16"-12 | 3 | DWT91612 | \$25.30 |
| 9/16"-18 | 3 | DWT91618 | \$25.30 |
| 5/8"-11 | 3 | DWT57230 | \$29.14 |
| 5/8"-18 | 3 | DWT57555 | \$29.14 |
| 11/16"-11 | 3 | DWT111611 | \$39.48 |
| 11/16"-16 | 3 | DWT111616 | \$39.48 |
| 3/4"-10 | 3 | DWT57246 | \$41.64 |
| 3/4"-16 | 3 | DWT60999 | \$41.64 |
| 7/8"-9 | 3 | DWT789 | \$60.78 |
| 7/8"-14 | 3 | DWT7814 | \$60.78 |
| 1"-8 | 3 | DWT18 | \$80.92 |
| 1"-12 | 3 | DWT112 | \$80.92 |
| 1"-14 | 3 | DWT114 | \$80.92 |



| T/A Series | | | | |
|------------|-------|---------------|-------------|------------|
| Size | Limit | No. of Flutes | Part Number | List Price |
| 0-80 | H1 | 2 | T/A57009 | \$22.52 |
| 1-64 | H1 | 2 | T/A57021 | \$18.10 |
| 1-72 | H1 | 2 | T/A57023 | \$18.10 |
| 2-56 | H2 | 2 | T/A57031 | \$17.64 |
| 2-64 | H2 | 2 | T/A57033 | \$18.13 |
| 3-48 | H2 | 2 | T/A57038 | \$13.23 |
| 3-56 | H2 | 2 | T/A57041 | \$13.23 |
| 4-36 | H2 | 2 | T/A57046 | \$13.23 |
| 4-40 | H2 | 2 | T/A57048 | \$11.41 |
| 4-48 | H2 | 2 | T/A57051 | \$13.23 |
| 5-40 | H2 | 2 | T/A57062 | \$11.41 |
| 5-44 | H2 | 2 | T/A57064 | \$13.23 |
| 6-32 | H3 | 2 | T/A57072 | \$9.61 |
| 6-40 | H2 | 2 | T/A57076 | \$10.42 |
| 8-32 | H3 | 2 | T/A57085 | \$9.61 |
| 8-36 | H2 | 2 | T/A57089 | \$10.42 |
| 10-24 | H3 | 2 | T/A57097 | \$9.61 |
| 10-32 | H3 | 2 | T/A57104 | \$9.61 |

T/A Series - High Speed Gun Taps

| Size | Limit | No. of Flutes | Part Number | List Price |
|------------|-------|---------------|-------------|------------|
| 12-24 | H3 | 2 | T/A57112 | \$10.71 |
| 12-28 | H3 | 2 | T/A57114 | \$10.71 |
| 1/4"-20 | H3 | 2 | T/A57129 | \$8.72 |
| 1/4"-28 | H3 | 2 | T/A57139 | \$8.72 |
| 5/16"-18H3 | | 2 | T/A57151 | \$9.69 |
| 5/16"-24H3 | | 2 | T/A57160 | \$9.69 |
| 3/8"-16 H3 | | 3 | T/A57176 | \$11.21 |
| 3/8"-24 H3 | | 3 | T/A57181 | \$11.21 |
| 7/16"-14H3 | | 3 | T/A57192 | \$19.13 |
| 7/16"-20H3 | | 3 | T/A57195 | \$19.13 |
| 1/2"-13 H3 | | 3 | T/A57215 | \$19.42 |
| 1/2"-20 H3 | | 3 | T/A57220 | \$20.38 |
| 9/16"-12H3 | | 3 | T/A91612 | \$37.99 |
| 9/16"-18H3 | | 3 | T/A91618 | \$37.99 |
| 5/8"-11 H3 | | 3 | T/A57230 | \$42.03 |
| 5/8"-18 H3 | | 3 | T/A57555 | \$42.03 |
| 3/4"-10 H3 | | 3 | T/A57246 | \$56.39 |
| 3/4"-16 H3 | | 3 | T/A60999 | \$56.39 |

| DWT Series | | | |
|------------|---------------|-------------|------------|
| Size | No. of Flutes | Part Number | List Price |
| 1.6x.35 | 2 | DWTG1.6X.35 | \$18.40 |
| 1.8x.35 | 2 | DWTG1.8X.35 | \$18.40 |
| 2x.4 | 2 | DWTG2X.4 | \$16.32 |
| 2.2x.45 | 2 | DWTG2.2X.45 | \$14.84 |
| 2.5x.45 | 2 | DWTG2.5X.45 | \$12.39 |
| 3x.5 | 2 | DWTG3X.5 | \$9.85 |
| 3.5x.6 | 2 | DWTG3.5X.6 | \$8.50 |
| 4x.7 | 2 | DWTG4X.7 | \$8.50 |
| 4.5x.75 | 2 | DWTG4.5X.75 | \$8.50 |
| 5x.8 | 2 | DWTG5X.8 | \$8.50 |

DWT Series - High Speed Metric Gun Taps

| Size | No. of Flutes | Part Number | List Price |
|---------|---------------|-------------|------------|
| 6x1 | 2 | DWTG6X1 | \$8.50 |
| 7x1 | 2 | DWTG7X1 | \$9.85 |
| 8x1 | 2 | DWTG8X1 | \$9.85 |
| 8x1.25 | 2 | DWTG8X1.25 | \$9.85 |
| 10x1.25 | 3 | DWTG10X1.25 | \$14.80 |
| 10x1.5 | 3 | DWTG10X1.5 | \$14.80 |
| 12x1.25 | 3 | DWTG12X1.25 | \$19.88 |
| 12x1.75 | 3 | DWTG12X1.75 | \$19.88 |
| 14x1.25 | 3 | DWTG14X1.25 | \$29.65 |
| 14x1.5 | 3 | DWTG14X1.5 | \$29.65 |

| Size | No. of Flutes | Part Number | List Price |
|--------|---------------|-------------|------------|
| 14x2 | 3 | DWTG14X2 | \$29.65 |
| 16x1.5 | 3 | DWTG16X1.5 | \$34.72 |
| 16x2 | 3 | DWTG16X2 | \$34.72 |
| 18x1.5 | 3 | DWTG18X1.5 | \$49.83 |
| 18x2.5 | 3 | DWTG18X2.5 | \$49.83 |
| 20x1.5 | 3 | DWTG20X1.5 | \$61.34 |
| 20x2.5 | 3 | DWTG20X2.5 | \$61.34 |
| 22x2.5 | 3 | DWTG22X2.5 | \$79.19 |

TIN-COATED TAPS

T/A Series - TIN Coated Plug Taps

| T/A Series | | | | |
|------------|-------|---------------|-------------|------------|
| Size | Limit | No. of Flutes | Part Number | List Price |
| 6-32 | H3 | 3 | T/A54224TN | \$12.47 |
| 8-32 | H3 | 4 | T/A54278TN | \$13.55 |
| 10-24 | H3 | 4 | T/A54330TN | \$14.82 |
| 10-32 | H3 | 4 | T/A54357TN | \$14.82 |
| 12-24 | H3 | 4 | T/A54386TN | \$15.71 |
| 1/4"-20 | H3 | 4 | T/A54454TN | \$14.67 |
| 1/4"-28 | H3 | 4 | T/A54470TN | \$14.67 |
| 5/16"-18 | H3 | 4 | T/A54505TN | \$20.11 |
| 5/16"-24 | H3 | 4 | T/A54519TN | \$20.11 |
| 3/8"-16 | H3 | 4 | T/A54583TN | \$21.53 |
| 3/8"-24 | H3 | 4 | T/A54596TN | \$21.53 |
| 7/16"-14 | H3 | 4 | T/A54653TN | \$33.07 |

| Size | Limit | No. of Flutes | Part Number | List Price |
|----------|-------|---------------|-------------|------------|
| 7/16"-20 | H3 | 4 | T/A54662TN | \$33.07 |
| 1/2"-13 | H3 | 4 | T/A54727TN | \$34.84 |
| 1/2"-20 | H3 | 4 | T/A54738TN | \$34.84 |
| 5/8"-11 | H3 | 4 | T/A54780TN | \$69.91 |
| 5/8"-18 | H3 | 4 | T/A54788TN | \$69.91 |
| 3/4"-10 | H3 | 4 | T/A54839TN | \$97.49 |
| 3/4"-16 | H3 | 4 | T/A54847TN | \$97.49 |
| 7/8"-9 | H3 | 4 | T/A54885TN | \$138.92 |
| 7/8"-14 | H3 | 4 | T/A54891TN | \$138.92 |
| 1"-8 | H3 | 4 | T/A54924TN | \$169.06 |
| 1"-12 | H3 | 4 | T/A54929TN | \$173.89 |
| 1"-14 | H3 | 4 | T/A54934TN | \$169.06 |



T/A Series - TIN Coated Gun Taps

| T/A Series | | | | |
|------------|-------|---------------|-------------|------------|
| Size | Limit | No. of Flutes | Part Number | List Price |
| 0-80 | H1 | 2 | T/A57009TN | \$29.32 |
| 1-64 | H1 | 2 | T/A57021TN | \$27.14 |
| 1-72 | H1 | 2 | T/A57023TN | \$27.14 |
| 2-56 | H2 | 2 | T/A57031TN | \$24.41 |
| 2-64 | H2 | 2 | T/A57033TN | \$26.36 |
| 3-48 | H2 | 2 | T/A57038TN | \$21.63 |
| 3-56 | H2 | 2 | T/A57041TN | \$21.63 |
| 4-40 | H2 | 2 | T/A57048TN | \$20.04 |
| 4-48 | H2 | 2 | T/A57051TN | \$21.63 |
| 5-40 | H2 | 2 | T/A57062TN | \$20.04 |
| 5-44 | H2 | 2 | T/A57064TN | \$21.63 |
| 6-32 | H3 | 2 | T/A57072TN | \$16.73 |
| 6-40 | H2 | 2 | T/A57076TN | \$17.92 |
| 8-32 | H3 | 2 | T/A57085TN | \$16.73 |
| 8-36 | H2 | 2 | T/A57089TN | \$17.92 |
| 10-24 | H3 | 2 | T/A57097TN | \$16.73 |
| 10-32 | H3 | 2 | T/A57104TN | \$16.73 |
| 12-24 | H3 | 2 | T/A57112TN | \$17.93 |

| Size | Limit | No. of Flutes | Part Number | List Price |
|----------|-------|---------------|-------------|------------|
| 12-28 | H3 | 2 | T/A57114TN | \$17.93 |
| 1/4"-20 | H3 | 2 | T/A57129TN | \$16.68 |
| 1/4"-28 | H3 | 2 | T/A57139TN | \$16.68 |
| 5/16"-18 | H3 | 2 | T/A57151TN | \$21.25 |
| 5/16"-24 | H3 | 2 | T/A57160TN | \$21.25 |
| 3/8"-16 | H3 | 3 | T/A57176TN | \$23.82 |
| 3/8"-24 | H3 | 3 | T/A57181TN | \$23.82 |
| 7/16"-14 | H3 | 3 | T/A57192TN | \$41.02 |
| 7/16"-20 | H3 | 3 | T/A57195TN | \$41.02 |
| 1/2"-13 | H3 | 3 | T/A57215TN | \$41.38 |
| 1/2"-20 | H3 | 3 | T/A57220TN | \$44.71 |
| 9/16"-12 | H3 | 3 | T/A91612TN | \$58.90 |
| 9/16"-18 | H3 | 3 | T/A91618TN | \$58.90 |
| 5/8"-11 | H3 | 3 | T/A57230TN | \$74.66 |
| 5/8"-18 | H3 | 3 | T/A57555TN | \$74.66 |
| 3/4"-10 | H3 | 3 | T/A57246TN | \$91.10 |
| 3/4"-16 | H3 | 3 | T/A60999TN | \$91.10 |



CARBON STEEL HAND TAPS

DWT Series - Carbon Steel Hand Taps

Carbon Steel Hand Taps are used to re-thread damaged and/or jammed threads. Carbon Steel Hand Taps may also be used to thread mild steels. **Taper Style** - Starts the thread square with the workpiece. **Plug Style** - Generally used in thru holes. **Bottom Style** - Generates the thread to the bottom of the hole.



DWT Series

| Size | No. of Flutes | Taper | Plug | Bottom | List Price | Set | List Price |
|-----------|---------------|--------------|--------------|--------------|------------|--------------|------------|
| 0-80 | 2 | DWTT0-80 | DWTP0-80 | DWTB0-80 | \$4.13 | DWTS0-80 | \$12.37 |
| 1-64 | 2 | DWTT1-64 | DWTP1-64 | DWTB1-64 | \$3.87 | DWTS1-64 | \$11.62 |
| 1-72 | 2 | DWTT1-72 | DWTP1-72 | DWTB1-72 | \$3.87 | DWTS1-72 | \$11.62 |
| 2-56 | 3 | DWTT2-56 | DWTP2-56 | DWTB2-56 | \$3.69 | DWTS2-56 | \$11.01 |
| 2-64 | 3 | DWTT2-64 | DWTP2-64 | DWTB2-64 | \$3.69 | DWTS2-64 | \$11.01 |
| 3-48 | 3 | DWTT3-48 | DWTP3-48 | DWTB3-48 | \$2.67 | DWTS3-48 | \$7.98 |
| 3-56 | 3 | DWTT3-56 | DWTP3-56 | DWTB3-56 | \$2.67 | DWTS3-56 | \$7.98 |
| 4-36 | 3 | DWTT4-36 | DWTP4-36 | DWTB4-36 | \$2.67 | DWTS4-36 | \$7.98 |
| 4-40 | 3 | DWTT4-40 | DWTP4-40 | DWTB4-40 | \$2.67 | DWTS4-40 | \$7.98 |
| 5-40 | 3 | DWTT5-40 | DWTP5-40 | DWTB5-40 | \$2.23 | DWTS5-40 | \$6.67 |
| 5-44 | 3 | DWTT5-44 | DWTP5-44 | DWTB5-44 | \$2.23 | DWTS5-44 | \$6.67 |
| 6-32 | 3 | DWTT6-32 | DWTP6-32 | DWTB6-32 | \$2.23 | DWTS6-32 | \$6.67 |
| 6-40 | 3 | DWTT6-40 | DWTP6-40 | DWTB6-40 | \$2.23 | DWTS6-40 | \$6.67 |
| 8-32 | 4 | DWTT8-32 | DWTP8-32 | DWTB8-32 | \$2.23 | DWTS8-32 | \$6.67 |
| 8-36 | 4 | DWTT8-36 | DWTP8-36 | DWTB8-36 | \$2.23 | DWTS8-36 | \$6.67 |
| 10-24 | 4 | DWTT10-24 | DWTP10-24 | DWTB10-24 | \$2.45 | DWTS10-24 | \$7.29 |
| 10-32 | 4 | DWTT10-32 | DWTP10-32 | DWTB10-32 | \$2.45 | DWTS10-32 | \$7.29 |
| 12-24 | 4 | DWTT12-24 | DWTP12-24 | DWTB12-24 | \$2.78 | DWTS12-24 | \$8.31 |
| 12-28 | 4 | DWTT12-28 | DWTP12-28 | DWTB12-28 | \$2.78 | DWTS12-28 | \$8.31 |
| 1/4"-20 | 4 | DWTT1/4-20 | DWTP1/4-20 | DWTB1/4-20 | \$2.78 | DWTS1/4-20 | \$8.38 |
| 1/4"-28 | 4 | DWTT1/4-28 | DWTP1/4-28 | DWTB1/4-28 | \$2.78 | DWTS1/4-28 | \$8.38 |
| 5/16"-18 | 4 | DWTT5/16-18 | DWTP5/16-18 | DWTB5/16-18 | \$3.42 | DWTS5/16-18 | \$10.24 |
| 5/16"-24 | 4 | DWTT5/16-24 | DWTP5/16-24 | DWTB5/16-24 | \$3.42 | DWTS5/16-24 | \$10.24 |
| 3/8"-16 | 4 | DWTT3/8-16 | DWTP3/8-16 | DWTB3/8-16 | \$3.82 | DWTS3/8-16 | \$11.44 |
| 3/8"-24 | 4 | DWTT3/8-24 | DWTP3/8-24 | DWTB3/8-24 | \$3.82 | DWTS3/8-24 | \$11.44 |
| 7/16"-14 | 4 | DWTT7/16-14 | DWTP7/16-14 | DWTB7/16-14 | \$5.00 | DWTS7/16-14 | \$15.00 |
| 7/16"-20 | 4 | DWTT7/16-20 | DWTP7/16-20 | DWTB7/16-20 | \$5.00 | DWTS7/16-20 | \$15.00 |
| 1/2"-13 | 4 | DWTT1/2-13 | DWTP1/2-13 | DWTB1/2-13 | \$5.71 | DWTS1/2-13 | \$17.14 |
| 1/2"-20 | 4 | DWTT1/2-20 | DWTP1/2-20 | DWTB1/2-20 | \$5.71 | DWTS1/2-20 | \$17.14 |
| 9/16"-12 | 4 | DWTT9/16-12 | DWTP9/16-12 | DWTB9/16-12 | \$7.77 | DWTS9/16-12 | \$23.31 |
| 9/16"-18 | 4 | DWTT9/16-18 | DWTP9/16-18 | DWTB9/16-18 | \$7.77 | DWTS9/16-18 | \$23.31 |
| 5/8"-11 | 4 | DWTT5/8-11 | DWTP5/8-11 | DWTB5/8-11 | \$8.62 | DWTS5/8-11 | \$25.85 |
| 5/8"-18 | 4 | DWTT5/8-18 | DWTP5/8-18 | DWTB5/8-18 | \$8.62 | DWTS5/8-18 | \$25.85 |
| 11/16"-11 | 4 | DWTT11/16-11 | DWTP11/16-11 | DWTB11/16-11 | \$10.31 | DWTS11/16-11 | \$30.95 |
| 11/16"-16 | 4 | DWTT11/16-16 | DWTP11/16-16 | DWTB11/16-16 | \$10.31 | DWTS11/16-16 | \$30.95 |
| 3/4"-10 | 4 | DWTT3/4-10 | DWTP3/4-10 | DWTB3/4-10 | \$12.26 | DWTS3/4-10 | \$36.79 |
| 3/4"-16 | 4 | DWTT3/4-16 | DWTP3/4-16 | DWTB3/4-16 | \$12.26 | DWTS3/4-16 | \$36.79 |
| 7/8"-9 | 4 | DWTT7/8-9 | DWTP7/8-9 | DWTB7/8-9 | \$17.24 | DWTS7/8-9 | \$51.69 |
| 7/8"-14 | 4 | DWTT7/8-14 | DWTP7/8-14 | DWTB7/8-14 | \$17.24 | DWTS7/8-14 | \$51.69 |
| 1"-8 | 4 | DWTT1-8 | DWTP1-8 | DWTB1-8 | \$21.45 | DWTS1-8 | \$64.36 |
| 1"-12 | 4 | DWTT1-12 | DWTP1-12 | DWTB1-12 | \$21.45 | DWTS1-12 | \$64.36 |
| 1"-14 | 4 | DWTT1-14 | DWTP1-14 | DWTB1-14 | \$21.45 | DWTS1-14 | \$64.36 |
| 1-1/8"-7 | 4 | DWTT1-1/8-7 | DWTP1-1/8-7 | DWTB1-1/8-7 | \$43.60 | DWTS1-1/8-7 | \$130.79 |
| 1-1/8"-12 | 4 | DWTT1-1/8-12 | DWTP1-1/8-12 | DWTB1-1/8-12 | \$43.60 | DWTS1-1/8-12 | \$130.79 |
| 1-1/4"-7 | 4 | DWTT1-1/4-7 | DWTP1-1/4-7 | DWTB1-1/4-7 | \$50.20 | DWTS1-1/4-7 | \$150.60 |
| 1-1/4"-12 | 6 | DWTT1-1/4-12 | DWTP1-1/4-12 | DWTB1-1/4-12 | \$50.20 | DWTS1-1/4-12 | \$150.60 |
| 1-3/8"-6 | 4 | DWTT1-3/8-6 | DWTP1-3/8-6 | DWTB1-3/8-6 | \$59.55 | DWTS1-3/8-6 | \$178.65 |
| 1-3/8"-12 | 6 | DWTT1-3/8-12 | DWTP1-3/8-12 | DWTB1-3/8-12 | \$59.55 | DWTS1-3/8-12 | \$178.65 |
| 1-1/2"-6 | 4 | DWTT1-1/2-6 | DWTP1-1/2-6 | DWTB1-1/2-6 | \$70.21 | DWTS1-1/2-6 | \$210.64 |
| 1-1/2"-12 | 6 | DWTT1-1/2-12 | DWTP1-1/2-12 | DWTB1-1/2-12 | \$70.21 | DWTS1-1/2-12 | \$210.64 |
| 1-3/4"-5 | 6 | DWTT1-3/4-5 | DWTP1-3/4-5 | DWTB1-3/4-5 | \$78.68 | DWTS1-3/4-5 | \$236.02 |

TAPS

DWT Series - High Speed Left Hand Taps

| DWT Series | | | | | | | |
|------------|---------------|----------|----------|----------|------------|----------|------------|
| Size | No. of Flutes | Taper | Plug | Bottom | List Price | Set | List Price |
| 6-32 | 3 | DWT60705 | DWT60706 | DWT60707 | \$7.31 | DWT60708 | \$21.95 |
| 8-32 | 4 | DWT60716 | DWT60717 | DWT60718 | \$7.31 | DWT60719 | \$21.95 |
| 10-24 | 4 | DWT60727 | DWT60728 | DWT60729 | \$7.31 | DWT60730 | \$21.95 |
| 10-32 | 4 | DWT60731 | DWT60732 | DWT60733 | \$7.31 | DWT60734 | \$21.95 |
| 1/4"-20 | 4 | DWT60747 | DWT60748 | DWT60749 | \$8.48 | DWT60750 | \$25.43 |
| 1/4"-28 | 4 | DWT60751 | DWT60752 | DWT60753 | \$8.48 | DWT60754 | \$25.43 |
| 5/16"-18 | 4 | DWT60759 | DWT60760 | DWT60761 | \$9.46 | DWT60762 | \$28.39 |
| 5/16"-24 | 4 | DWT60763 | DWT60764 | DWT60765 | \$9.46 | DWT60766 | \$28.39 |
| 3/8"-16 | 4 | DWT60775 | DWT60776 | DWT60777 | \$12.25 | DWT60778 | \$36.77 |
| 3/8"-24 | 4 | DWT60779 | DWT60780 | DWT60781 | \$12.25 | DWT60782 | \$36.77 |
| 7/16"-14 | 4 | DWT60791 | DWT60792 | DWT60793 | \$17.83 | DWT60794 | \$53.48 |
| 7/16"-20 | 4 | DWT60795 | DWT60796 | DWT60797 | \$17.83 | DWT60798 | \$53.48 |
| 1/2"-13 | 4 | DWT60807 | DWT60808 | DWT60809 | \$20.79 | DWT60810 | \$62.41 |
| 1/2"-20 | 4 | DWT60811 | DWT60812 | DWT60813 | \$20.79 | DWT60814 | \$62.41 |
| 9/16"-12 | 4 | DWT60823 | DWT60824 | DWT60825 | \$30.61 | DWT60826 | \$91.79 |
| 9/16"-18 | 4 | DWT60827 | DWT60828 | DWT60829 | \$30.61 | DWT60830 | \$91.79 |
| 5/8"-11 | 4 | DWT60831 | DWT60832 | DWT60833 | \$37.71 | DWT60834 | \$113.13 |
| 5/8"-18 | 4 | DWT60835 | DWT60836 | DWT60837 | \$37.71 | DWT60838 | \$113.13 |
| 3/4"-10 | 4 | DWT60861 | DWT60862 | DWT60863 | \$50.72 | DWT60864 | \$152.15 |
| 3/4"-16 | 4 | DWT60865 | DWT60866 | DWT60867 | \$50.72 | DWT60868 | \$152.15 |
| 7/8"-9 | 4 | DWT60885 | DWT60886 | DWT60887 | \$67.80 | DWT60888 | \$203.45 |
| 7/8"-14 | 4 | DWT60889 | DWT60890 | DWT60891 | \$67.80 | DWT60892 | \$203.45 |
| 1"-8 | 4 | DWT60901 | DWT60902 | DWT60903 | \$90.20 | DWT60904 | \$270.60 |
| 1"-12 | 4 | DWT60905 | DWT60906 | DWT60907 | \$90.20 | DWT60908 | \$270.60 |
| 1"-14 | 4 | DWT60909 | DWT60910 | DWT60911 | \$90.20 | DWT60912 | \$270.60 |

PULLEY TAPS

DWTET Series - High Speed Pulley Taps

Extension Taps are used for tapping the hubs of pulleys for oil caps or set screws. The long shank is also ideal for reaching holes inaccessible with standard length taps. Extension Taps are furnished in several different overall lengths. Available in PLUG chamfer only.



DWTET Series 6" O.A.L.

| Size | Part Number | List Price |
|----------|----------------|------------|
| 6-32 | DWTET6X6-32 | \$24.76 |
| 8-32 | DWTET6X8-32 | \$24.76 |
| 10-24 | DWTET6X10-24 | \$24.76 |
| 10-32 | DWTET6X10-32 | \$24.76 |
| 12-24 | DWTET6X12-24 | \$24.76 |
| 1/4"-20 | DWTET6X1/4-20 | \$37.63 |
| 1/4"-28 | DWTET6X1/4-28 | \$37.63 |
| 5/16"-18 | DWTET6X5/16-18 | \$39.15 |
| 5/16"-24 | DWTET6X5/16-24 | \$39.15 |
| 3/8"-16 | DWTET6X3/8-16 | \$44.07 |
| 3/8"-24 | DWTET6X3/8-24 | \$44.07 |
| 7/16"-14 | DWTET6X7/16-14 | \$46.85 |
| 7/16"-20 | DWTET6X7/16-20 | \$46.85 |
| 1/2"-13 | DWTET6X1/2-13 | \$47.25 |
| 1/2"-20 | DWTET6X1/2-20 | \$47.25 |
| 5/8"-11 | DWTET6X5/8-11 | \$63.08 |
| 5/8"-18 | DWTET6X5/8-18 | \$63.08 |
| 3/4"-10 | DWTET6X3/4-10 | \$76.38 |
| 3/4"-16 | DWTET6X3/4-16 | \$76.38 |
| 7/8"-9 | DWTET6X7/8-9 | \$102.66 |

8" O.A.L.

| Size | Part Number | List Price |
|----------|----------------|------------|
| 1/4"-20 | DWTET8X1/4-20 | \$45.59 |
| 5/16"-18 | DWTET8X5/16-18 | \$46.86 |
| 3/8"-16 | DWTET8X3/8-16 | \$52.33 |
| 7/16"-14 | DWTET8X7/16-14 | \$59.79 |
| 7/16"-20 | DWTET8X7/16-20 | \$59.79 |
| 9/16"-18 | DWTET8X9/16-18 | \$94.13 |
| 5/8"-11 | DWTET8X5/8-11 | \$80.68 |
| 3/4"-10 | DWTET8X3/4-10 | \$92.96 |
| 1"-14 | DWTET8X1-14 | \$158.43 |



GUN TAPS 6" O.A.L.

DWTGT Series

| Size | Part Number | List Price |
|----------|----------------|------------|
| 6-32 | DWTGT6X6-32 | \$33.03 |
| 8-32 | DWTGT6X8-32 | \$33.03 |
| 10-24 | DWTGT6X10-24 | \$33.03 |
| 10-32 | DWTGT6X10-32 | \$33.03 |
| 12-24 | DWTGT6X12-24 | \$33.03 |
| 1/4"-20 | DWTGT6X1/4-20 | \$41.25 |
| 1/4"-28 | DWTGT6X1/4-28 | \$41.25 |
| 5/16"-18 | DWTGT6X5/16-18 | \$42.39 |
| 5/16"-24 | DWTGT6X5/16-24 | \$42.39 |
| 3/8"-16 | DWTGT6X3/8-16 | \$45.58 |
| 3/8"-24 | DWTGT6X3/8-24 | \$45.58 |
| 7/16"-14 | DWTGT6X7/16-14 | \$48.76 |
| 1/2"-13 | DWTGT6X1/2-13 | \$53.01 |
| 1/2"-20 | DWTGT6X1/2-20 | \$53.01 |

NUT TAPS

DWTNT Series

| Size | Part Number | List Price |
|----------|--------------|------------|
| 10-32 | DWTNT10-32 | \$68.27 |
| 1/4"-20 | DWTNT1/4-20 | \$58.52 |
| 5/16"-18 | DWTNT5/16-18 | \$66.24 |
| 3/8"-16 | DWTNT3/8-16 | \$78.15 |
| 3/8"-24 | DWTNT3/8-24 | \$78.15 |
| 7/16"-20 | DWTNT7/16-20 | \$83.61 |
| 9/16"-12 | DWTNT9/16-12 | \$143.22 |
| 9/16"-18 | DWTNT9/16-18 | \$143.22 |

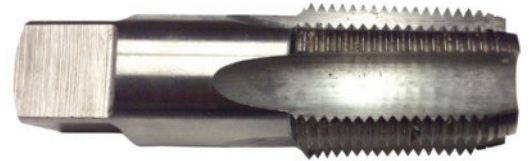
PIPE TAPS

DWT Series - High Speed NPT Taps

T/A Series - High Speed NPT Taps

National Pipe Taper Taps are appropriate for threading a wide variety of materials both ferrous and non-ferrous. The nominal size of a Pipe Tap is that of the pipe fitting to be tapped, not the actual size of the tap. The thread tapers 3/4" of an inch per foot. All Pipe Taps furnished with a 2-1/2" to 3-1/2" thread chamfer. NPT threads require the use of a "sealer" like teflon tape or pipe compound.

| DWT Series | | | T/A Series | | |
|---------------|---------------|-------------|------------|-------------|------------|
| Size | No. of Flutes | Part Number | List Price | Part Number | List Price |
| 1/16"-27 | 4 | DWT64003 | \$20.78 | T/A64003 | \$38.01 |
| 1/8"-27 | 4 | DWT64005 | \$20.78 | T/A64005 | \$34.79 |
| 1/4"-18 | 4 | DWT64006 | \$23.31 | T/A64006 | \$38.41 |
| 3/8"-18 | 4 | DWT64007 | \$30.19 | T/A64007 | \$50.39 |
| 1/2"-14 | 4 | DWT64008 | \$48.20 | T/A64008 | \$79.25 |
| 3/4"-14 | 5 | DWT64009 | \$74.26 | T/A64009 | \$112.67 |
| 1"-11-1/2 | 5 | DWT64010 | \$112.85 | T/A64010 | \$171.30 |
| 1-1/4"-11-1/2 | 5 | DWT64011 | \$169.45 | T/A64011 | \$241.59 |
| 1-1/2"-11-1/2 | 7 | DWT64012 | \$228.02 | T/A64012 | \$324.96 |
| 2"-11-1/2 | 7 | DWT64013 | \$342.06 | T/A64013 | \$442.13 |
| 2-1/2"-8 | 8 | DWT64014 | \$868.76 | | |
| 3"-8 | 8 | DWT64015 | \$1,281.94 | | |
| 3-1/2"-8 | 8 | DWT64016 | \$1,591.16 | | |
| 4"-8 | 8 | DWT64017 | \$2,258.21 | | |



DWTPT Series - Carbon Steel NPT Taps

Carbon Steel Pipe Taps are designed to clean and/or re-thread damaged or jammed pipe threads.

| DWTPT Series | | |
|---------------|-------------|------------|
| Size | Part Number | List Price |
| 1/8"-27 | DWTPT1/8 | \$5.98 |
| 1/4"-18 | DWTPT1/4 | \$7.32 |
| 3/8"-18 | DWTPT3/8 | \$9.14 |
| 1/2"-14 | DWTPT1/2 | \$12.32 |
| 3/4"-14 | DWTPT3/4 | \$20.61 |
| 1"-11-1/2 | DWTPT1INCH | \$41.06 |
| 1-1/4"-11-1/2 | DWTPT1-1/4 | \$62.51 |
| 1-1/2"-11-1/2 | DWTPT1-1/2 | \$83.99 |
| 2"-11-1/2 | DWTPT2INCH | \$137.52 |
| 2-1/2"-8 | DWTPT2-1/2 | \$322.08 |
| 3"-8 | DWTPT3INCH | \$544.38 |
| 3-1/2"-8 | DWTPT3-1/2 | \$993.33 |
| 4"-8 | DWTPT4INCH | \$1,369.18 |
| 5"-8 | DWTPT5INCH | \$2,221.32 |
| 6"-8 | DWTPT6INCH | \$3,131.32 |



INTERRUPTED THREAD

Special Purpose Pipe Tap, appropriate for threading a wide variety of materials both ferrous and non-ferrous where chip disposal is a problem. The first few threads on an Interrupted Thread Pipe Tap are full. The balance of the threads are interrupted to reduce drag while taper pipe threading.

| DWT Series | | |
|---------------|-------------|------------|
| Size | Part Number | List Price |
| 1/8"-27 | DWT64224 | \$34.36 |
| 1/4"-18 | DWT64225 | \$36.18 |
| 3/8"-18 | DWT64226 | \$52.38 |
| 1/2"-14 | DWT64227 | \$81.02 |
| 3/4"-14 | DWT64228 | \$114.15 |
| 1"-11-1/2 | DWT64229 | \$176.27 |
| 1-1/4"-11-1/2 | DWT64230 | \$259.92 |
| 1-1/2"-11-1/2 | DWT64231 | \$351.98 |
| 2"-11-1/2 | DWT64232 | \$474.70 |



NPS TAPS

National Pipe Straight Taps marked NPS are suitable for tapping holes, or couplings, for low pressure work to assemble with taper threaded pipe or fittings to secure a tight joint when a sealer is used. They are suitable for NPSC and NPSM work.

| DWT Series | | | |
|---------------|---------------|-------------|------------|
| Size | No. of Flutes | Part Number | List Price |
| 1/16"-27 | 4 | DWT64115 | \$29.82 |
| 1/8"-27 | 4 | DWT64116 | \$22.82 |
| 1/4"-18 | 4 | DWT64117 | \$25.59 |
| 3/8"-18 | 4 | DWT64118 | \$38.04 |
| 1/2"-14 | 4 | DWT64119 | \$58.91 |
| 3/4"-14 | 5 | DWT64120 | \$84.44 |
| 1"-11-1/2 | 5 | DWT64121 | \$129.27 |
| 1-1/4"-11-1/2 | 5 | DWT64122 | \$181.38 |
| 1-1/2"-11-1/2 | 7 | DWT64123 | \$249.87 |
| 2"-11-1/2 | 7 | DWT64124 | \$355.04 |

NPT PIPE TAP SETS

POUNPT Series - NPT Tap and Drill Sets

Each set comes with one DWTPT carbon steel NPT Pipe Tap and corresponding DWDN high speed steel black oxide drill bit in a plastic pouch. Sets with a drill bit larger than 1/2" come with a DWDRSD reduced shank drill bit with a 1/2" shank.

POUCS Series - NPT Tap Sets

Each set comes with DWTPT carbon steel NPT Pipe Taps in a plastic pouch.

DWT Series - NPT Tap and Die Sets in Wood Case

Assortment of NPT Pipe Tap and Die Sets in wood cases.

NPT TAP & DRILL SETS

POUNPT Series

| NPT Tap Size | HSS Drill Size | Part Number | List Price |
|--------------|----------------|-------------------|------------|
| 1/16" | "D" | POU1/16NPTW/DRILL | \$7.63 |
| 1/8" | "R" | POU1/8NPTW/DRILL | \$8.48 |
| 1/4" | 7/16" | POU1/4NPTW/DRILL | \$10.07 |
| 3/8" | 37/64" | POU3/8NPTW/DRILL | \$18.87 |
| 1/2" | 23/32" | POU1/2NPTW/DRILL | \$23.85 |
| 3/4" | 59/64" | POU3/4NPTW/DRILL | \$37.74 |
| 1" | 1-5/32" | POU1NPTW/DRILL | \$74.73 |



CARBON NPT TAP SETS

POUCS Series

| Size | NPT Tap Sizes | Part Number | List Price |
|----------|------------------------------|-------------|------------|
| 5 PC SET | 1/8", 1/4", 3/8", 1/2", 3/4" | POUCSNPT5 | \$49.82 |
| 3 PC SET | 1", 1-1/4", 1-1/2" | POUCSNPT3 | \$166.42 |



NPT TAP/DIE SETS

DWT Series

| Size | NPT Sizes | Material | Part Number | List Price |
|---------------|------------------------------------|------------------|-------------------|------------|
| 6 PC TAP | 1/8", 1/4", 3/8", 1/2", 3/4", 1" | High Speed Steel | DWTHS1/8-1SET | \$280.90 |
| 6 PC TAP | 1/4", 3/8", 1/2", 3/4", 1", 1-1/4" | High Speed Steel | DWTHS1/4-1-1/4SET | \$413.40 |
| 6 PC TAP | 1/8", 1/4", 3/8", 1/2", 3/4", 1" | Carbon Steel | DWTPT1/8-1SET | \$86.92 |
| 6 PC TAP | 1/4", 3/8", 1/2", 3/4", 1", 1-1/4" | Carbon Steel | DWTPT1/4-1-1/4SET | \$137.80 |
| 6 PC TAP | 1/8", 1/4", 3/8", 1/2", 3/4", 1" | Carbon Steel | DWTHXNPT-SET | \$196.10 |
| 12 PC TAP/DIE | 1/8", 1/4", 3/8", 1/2", 3/4", 1" | Carbon Steel | DWTNPT-SET | \$280.90 |



TAPS & ACCESORIES

TAP AND DIE SETS

DWT Series

| Description | Part Number | List Price |
|--|---------------------|------------|
| #4-1/2" CS Tap & Die Set with Hex Dies | DWT40PC-HEX | \$200.14 |
| #4-1/2" CS Tap & Die Set with Round Dies | DWT40PC-ROUND | \$200.14 |
| 3-12 mm CS Tap & Die Set with Hex Dies | DWT40PC-MM-HEX | \$200.14 |
| 3-12 mm CS Tap & Die Set with Round Dies | DWT40PC-MM-ROUND | \$200.14 |
| #4-1/2" HS Tap & Die Set with Round Dies | DWT40PC-HS-ROUND | \$545.70 |
| 3-12mm HS Tap & Die Set with Round Dies | DWT40PC-HS-MM-ROUND | \$545.70 |
| 6-24mm NC & NF CS Tap & Die Set | DWT45PC-MM-SET | \$658.05 |
| 1/4"-1" NC & NF CS Tap & Die Set | DWT45PC-SET | \$658.05 |

COMBINED DRILL AND TAP

DWT Series

| Size | Part Number | List Price |
|----------|----------------|------------|
| 4-40 | DWT4-40DRAP | \$33.40 |
| 6-32 | DWT6-32DRAP | \$30.93 |
| 8-32 | DWT8-32DRAP | \$30.93 |
| 10-24 | DWT10-24DRAP | \$31.99 |
| 10-32 | DWT10-32DRAP | \$31.99 |
| 12-24 | DWT12-24DRAP | \$35.35 |
| 1/4"-20 | DWT1/4-20DRAP | \$35.71 |
| 5/16"-18 | DWT5/16-18DRAP | \$46.70 |
| 3/8"-16 | DWT3/8-16DRAP | \$56.77 |
| 7/16"-14 | DWT7/16-14DRAP | \$71.72 |
| 1/2"-13 | DWT1/2-13DRAP | \$86.35 |
| 9/16"-12 | DWT9/16-12DRAP | \$135.59 |
| 5/8"-11 | DWT5/8-11DRAP | \$171.05 |
| *Set | DWTDRAP-SET | \$92.75 |

DWT Series - Combined Drill and Tap

Designed to drill and tap in one operation. Can be used on multi-spindle or hand held operations.

*Set contains #6-32, #8-32, #10-32, #10-24, #12-24 and 1/4"-20 with Hex Shanks in a plastic case.



TAP WRENCHES

ADJUSTABLE TAP WRENCHES

DWTTW Series - Adjustable Tap Wrenches



| Capacity | | | | | DWTTW Series | |
|-------------|---------------|-------------|-----------------|--------|--------------|------------|
| Hand Taps | Screw Machine | Pipe | Hand Reamer | O.A.L. | Part Number | List Price |
| 1/16"-1/4" | 0-14 | - | 1/8"-21/64" | 7" | DWTTW0 | \$11.74 |
| 1/16"-3/8" | 0-14 | - | 1/8"-25/64" | 9" | DWTTW4 | \$22.31 |
| 5/32"-1/2" | 7-14 | 1/8" | 11/64"-7/16" | 11" | DWTTW5 | \$18.10 |
| 5/32"-3/4" | 7-14 | 1/8"-1/4" | 11/64"-41/64" | 15" | DWTTW6 | \$25.56 |
| 1/4"-1-1/8" | - | 1/8"-3/4" | 9/32"-29/32" | 19" | DWTTW7 | \$49.49 |
| 1/2"-1-3/8" | - | 1/8"-1" | 3/8"-1-5/32" | 31" | DWTTW7-1/2 | \$86.37 |
| 3/4"-1-5/8" | - | 3/8"-1-1/4" | 37/64"-1-11/32" | 40" | DWTTW8 | \$142.72 |
| 1"-2-1/2" | - | 3/4"-2" | 7/8"-2-1/8" | | DWTTW22 | \$264.91 |
| 1-3/4"-4" | - | 1-1/2"-4" | 1-7/16"-3" | | DWTTW24 | \$346.98 |

T-HANDLE TAP WRENCHES

DWTD Series - T-Handle Tap Wrenches

| Capacity | | | | DWTD Series | |
|----------|-----------------|---------------|--------|-------------|------------|
| Size | Fractional Taps | Screw Machine | O.A.L. | Part Number | List Price |
| Plain | 1/16"-1/4" | 0-14 | 2-3/4" | DWTD328 | \$12.74 |
| Plain | 7/32"-1/2" | 12-14 | 3-5/8" | DWTD332 | \$17.80 |
| Ratchet | 1/16"-1/4" | 0-14 | 3-3/4" | DWTD338R | \$48.74 |
| Ratchet | 7/32"-1/2" | 12-14 | 5" | DWTD339R | \$52.43 |



TAPS & DIES

DWT Series - Acme Taps

Single pass acme taps produce threads from 10° to 30° in a single pass without a lead screw



| DWT Series | | | | | |
|------------|----------------|---------------|----------|----------------|------------|
| Size | Decimal Equiv. | Thread Length | O.A.L. | Part Number | List Price |
| 3/8"-12 | .3750 | 2" | 4" | DWT3/8-12ACME | \$250.98 |
| 7/16"-12 | .4375 | 2-1/4" | 4-1/2" | DWT7/16-12ACME | \$250.98 |
| 1/2"-10 | .5000 | 2-9/16" | 5" | DWT1/2-10ACME | \$244.86 |
| 5/8"-8 | .6250 | 3-3/16" | 6-1/4" | DWT5/8-8ACME | \$283.12 |
| 3/4"-6 | .7500 | 4-5/16" | 7-15/16" | DWT3/4-6ACME | \$368.83 |
| 7/8"-6 | .8750 | 4-3/8" | 8-5/8" | DWT7/8-6ACME | \$373.41 |
| 1"-5 | 1.0000 | 5-1/4" | 10-1/8" | DWT1-5ACME | \$454.53 |
| 1-1/4"-5 | 1.2500 | 5-1/4" | 11-1/8" | DWT1-1/4-5ACME | \$538.69 |
| 1-1/2"-4 | 1.5000 | 5-7/8" | 12-5/8" | DWT1-1/2-4ACME | \$673.37 |

GARDEN HOSE NGH TAP AND DIE

DWTNGH Series - HSS Garden Hose Tap and Die

For making new threads or re-threading existing NGH threads

| DWTNGH Series | | |
|-----------------|--------------|------------|
| Size | Part Number | List Price |
| 3/4"-11-1/2 NGH | DWTNGH3/4TAP | \$64.66 |
| 3/4"-11-1/2 NGH | DWTNGH3/4DIE | \$47.38 |



CARBON STEEL SQUARE DIES

DWT Series - Carbon Steel Square Dies

Designed for rethreading jammed or damaged bolt threads.

BOLT SIZES

| DWTSQ Series | | |
|--------------|-------------|------------|
| Size | Part Number | List Price |
| 1/4"-20 | DWTSQ1420 | \$72.50 |
| 5/16"-18 | DWTSQ51618 | \$78.41 |
| 3/8"-16 | DWTSQ3816 | \$81.72 |
| 7/16"-14 | DWTSQ71614 | \$87.18 |
| 1/2"-13 | DWTSQ1213 | \$99.64 |
| 5/8"-11 | DWTSQ5811 | \$110.76 |
| 3/4"-10 | DWTSQ3410 | \$112.89 |
| 7/8"-9 | DWTSQ789 | \$122.33 |
| 1"-8 | DWTSQ18 | \$137.46 |
| 1-1/8"-7 | DWTSQ1187 | \$152.80 |
| 1-1/4"-7 | DWTSQ1147 | \$168.37 |
| 1-3/8"-6 | DWTSQ1386 | \$188.00 |
| 1-1/2"-6 | DWTSQ1126 | \$199.80 |
| 1-3/4"-5 | DWTSQ1345 | \$314.10 |
| 2"-4-1/2 | DWTSQ2412 | \$625.17 |



NPT SIZES

| Size | Part Number | List Price |
|---------------|----------------|------------|
| 1/8"x2"SQ | DWTSQNPT18X2 | \$82.03 |
| 1/8"x2-1/2"SQ | DWTSQNPT18X212 | \$99.39 |
| 1/4"x2"SQ | DWTSQNPT14X2 | \$82.03 |
| 1/4"x2-1/2"SQ | DWTSQNPT14X212 | \$99.39 |
| 3/8"x2"SQ | DWTSQNPT38X2 | \$82.03 |
| 3/8"x2-1/2"SQ | DWTSQNPT38X212 | \$99.39 |
| 1/2"x2"SQ | DWTSQNPT12X2 | \$82.03 |
| 1/2"x2-1/2"SQ | DWTSQNPT12X212 | \$99.39 |
| 1/2"x3"SQ | DWTSQNPT12X3 | \$115.51 |
| 3/4"x2-1/2"SQ | DWTSQNPT34X212 | \$99.39 |
| 3/4"x3"SQ | DWTSQNPT34X3 | \$115.51 |
| 1"x2-1/2"SQ | DWTSQNPT1X212 | \$99.39 |
| 1"x3"SQ | DWTSQNPT1X3 | \$115.51 |
| 1"x4"SQ | DWTSQNPT1X4 | \$140.32 |
| 1-1/4"x3"SQ | DWTSQNPT114X3 | \$115.51 |
| 1-1/4"x4"SQ | DWTSQNPT114X4 | \$140.32 |
| 1-1/2"x4"SQ | DWTSQNPT112X4 | \$140.32 |
| 2"x4"SQ | DWTSQNPT2X4 | \$140.32 |
| 2-1/2"x5"SQ | DWTSQNPT212X5 | \$241.41 |
| 3"x5"SQ | DWTSQNPT3X5 | \$241.41 |

HEX DIES

DWT Series - Hex Dies

Carbon Steel Hex Dies are for dressing over bruised or rusty threads, they are the most cost effective rethreading tool available. No special holder is required for this type of die, any wrench large enough will suffice. Ideal for maintenance in the shop or field.

MACHINE AND FRACTIONAL SIZES

DWTHX Series

| Size | Part Number | List Price | Size | Part Number | List Price | Size | Part Number | List Price |
|----------|-------------|------------|-----------|-------------|------------|-----------|-------------|------------|
| 4-40 | DWTHX440 | \$9.79 | 7/16"-14 | DWTHX71614 | \$12.57 | 7/8"-14 | DWTHX7814 | \$25.12 |
| 5-40 | DWTHX540 | \$9.79 | 7/16"-20 | DWTHX71620 | \$12.57 | 1"-8 | DWTHX18 | \$31.70 |
| 6-32 | DWTHX632 | \$9.79 | 1/2"-13 | DWTHX1213 | \$13.60 | 1"-12 | DWTHX112 | \$31.70 |
| 8-32 | DWTHX832 | \$9.79 | 1/2"-20 | DWTHX1220 | \$13.60 | 1"-14 | DWTHX114 | \$31.70 |
| 10-24 | DWTHX1024 | \$9.79 | 9/16"-12 | DWTHX91612 | \$14.70 | 1-1/8"-7 | DWTHX1187 | \$47.68 |
| 10-32 | DWTHX1032 | \$9.79 | 9/16"-18 | DWTHX91618 | \$14.70 | 1-1/8"-12 | DWTHX11812 | \$47.68 |
| 12-24 | DWTHX1224 | \$9.79 | 5/8"-11 | DWTHX5811 | \$17.09 | 1-1/4"-7 | DWTHX1147 | \$55.31 |
| 1/4"-20 | DWTHX1420 | \$8.84 | 5/8"-18 | DWTHX5818 | \$17.09 | 1-1/4"-12 | DWTHX11412 | \$55.31 |
| 1/4"-28 | DWTHX1428 | \$8.84 | 11/16"-11 | DWTHX111611 | \$21.03 | 1-3/8"-6 | DWTHX1386 | \$62.85 |
| 5/16"-18 | DWTHX51618 | \$9.89 | 11/16"-16 | DWTHX111616 | \$21.03 | 1-3/8"-12 | DWTHX13812 | \$62.85 |
| 5/16"-24 | DWTHX51624 | \$9.89 | 3/4"-10 | DWTHX3410 | \$22.41 | 1-1/2"-6 | DWTHX1126 | \$70.35 |
| 3/8"-16 | DWTHX3816 | \$10.18 | 3/4"-16 | DWTHX3416 | \$22.41 | 1-1/2"-12 | DWTHX11212 | \$70.35 |
| 3/8"-24 | DWTHX3824 | \$10.18 | 7/8"-9 | DWTHX789 | \$25.12 | | | |

NPT PIPE SIZES

DWTHXNPT Series

| Size | Part Number | List Price | Size | Part Number | List Price |
|-----------|---------------|------------|-----------|---------------|------------|
| 1/8"NPT | DWTHXNPT18 | \$13.18 | 1-1/2"NPT | DWTHXNPT112 | \$201.26 |
| 1/4"NPT | DWTHXNPT14 | \$17.24 | 2"NPT | DWTHXNPT2INCH | \$311.67 |
| 3/8"NPT | DWTHXNPT38 | \$25.52 | 2-1/2"NPT | DWTHXNPT212 | \$521.71 |
| 1/2"NPT | DWTHXNPT12 | \$31.14 | 3"NPT | DWTHXNPT3INCH | \$737.67 |
| 3/4"NPT | DWTHXNPT34 | \$50.56 | 3-1/2"NPT | DWTHXNPT312 | \$1,125.98 |
| 1"NPT | DWTHXNPT1INCH | \$80.50 | 4"NPT | DWTHXNPT4INCH | \$1,383.16 |
| 1-1/4"NPT | DWTHXNPT114 | \$129.86 | | | |



HSS FRACTIONAL SIZES

DWTHSHEX Series

| Size | Part Number | List Price | Size | Part Number | List Price |
|-----------|----------------|------------|-----------|---------------|------------|
| 1/4"-20 | DWTHSHEX1420 | \$23.54 | 3/4"-10 | DWTHSHEX3410 | \$58.80 |
| 1/4"-28 | DWTHSHEX1428 | \$23.54 | 3/4"-16 | DWTHSHEX3416 | \$58.80 |
| 5/16"-18 | DWTHSHEX51618 | \$26.48 | 7/8"-9 | DWTHSHEX789 | \$76.16 |
| 5/16"-24 | DWTHSHEX51624 | \$26.48 | 7/8"-14 | DWTHSHEX7814 | \$76.16 |
| 3/8"-16 | DWTHSHEX3816 | \$29.39 | 1"-8 | DWTHSHEX18 | \$88.84 |
| 3/8"-24 | DWTHSHEX3824 | \$29.39 | 1"-12 | DWTHSHEX112 | \$88.84 |
| 7/16"-14 | DWTHSHEX71614 | \$31.74 | 1"-14 | DWTHSHEX114 | \$88.84 |
| 7/16"-20 | DWTHSHEX71620 | \$31.74 | 1-1/8"-7 | DWTHSHEX1187 | \$176.13 |
| 1/2"-13 | DWTHSHEX1213 | \$39.96 | 1-1/8"-12 | DWTHSHEX11812 | \$176.13 |
| 1/2"-20 | DWTHSHEX1220 | \$39.96 | 1-1/4"-7 | DWTHSHEX1147 | \$185.09 |
| 9/16"-12 | DWTHSHEX91612 | \$48.25 | 1-1/4"-12 | DWTHSHEX11412 | \$185.09 |
| 9/16"-18 | DWTHSHEX91618 | \$48.25 | 1-3/8"-6 | DWTHSHEX1386 | \$210.31 |
| 5/8"-11 | DWTHSHEX5811 | \$52.93 | 1-3/8"-12 | DWTHSHEX13812 | \$210.31 |
| 5/8"-18 | DWTHSHEX5818 | \$52.93 | 1-1/2"-6 | DWTHSHEX1126 | \$259.56 |
| 11/16"-11 | DWTHSHEX111611 | \$57.55 | 1-1/2"-12 | DWTHSHEX11212 | \$259.56 |
| 11/16"-16 | DWTHSHEX111616 | \$57.55 | | | |



HEX DIES

LEFT HAND FRACTIONAL SIZES

DWTHX Series

| Size | Part Number | List Price |
|-----------|---------------|------------|
| 1/4"-20 | DWTHX1420LH | \$15.69 |
| 1/4"-28 | DWTHX1428LH | \$15.69 |
| 5/16"-18 | DWTHX51618LH | \$17.37 |
| 5/16"-24 | DWTHX51624LH | \$17.37 |
| 3/8"-16 | DWTHX3816LH | \$19.68 |
| 3/8"-24 | DWTHX3824LH | \$19.68 |
| 7/16"-14 | DWTHX71614LH | \$20.50 |
| 7/16"-20 | DWTHX71620LH | \$20.50 |
| 1/2"-13 | DWTHX1213LH | \$25.11 |
| 1/2"-20 | DWTHX1220LH | \$25.11 |
| 9/16"-12 | DWTHX91612LH | \$30.55 |
| 9/16"-18 | DWTHX91618LH | \$30.55 |
| 5/8"-11 | DWTHX5811LH | \$32.86 |
| 5/8"-18 | DWTHX5818LH | \$32.86 |
| 11/16"-11 | DWTHX111611LH | \$36.64 |
| 11/16"-16 | DWTHX111616LH | \$36.64 |

| Size | Part Number | List Price |
|-----------|--------------|------------|
| 3/4"-10 | DWTHX3410LH | \$37.46 |
| 3/4"-16 | DWTHX3416LH | \$37.46 |
| 7/8"-9 | DWTHX789LH | \$54.55 |
| 7/8"-14 | DWTHX7814LH | \$54.55 |
| 1"-8 | DWTHX18LH | \$56.07 |
| 1"-12 | DWTHX112LH | \$56.07 |
| 1"-14 | DWTHX114LH | \$56.07 |
| 1-1/8"-7 | DWTHX1187LH | \$73.07 |
| 1-1/8"-12 | DWTHX11812LH | \$73.07 |
| 1-1/4"-7 | DWTHX1147LH | \$77.46 |
| 1-1/4"-12 | DWTHX11412LH | \$77.46 |
| 1-3/8"-6 | DWTHX1386LH | \$81.39 |
| 1-3/8"-12 | DWTHX13812LH | \$81.39 |
| 1-1/2"-6 | DWTHX1126LH | \$85.46 |
| 1-1/2"-12 | DWTHX11212LH | \$85.46 |



SPECIAL THREAD FRACTIONAL SIZES

DWTSH Series

| Size | Part Number | List Price |
|----------|--------------|------------|
| 1/4"-24 | DWTSH1/4-24 | \$45.32 |
| 1/4"-27 | DWTSH1/4-27 | \$45.32 |
| 1/4"-32 | DWTSH1/4-32 | \$45.32 |
| 1/4"-36 | DWTSH1/4-36 | \$45.32 |
| 1/4"-40 | DWTSH1/4-40 | \$45.32 |
| 1/4"-48 | DWTSH1/4-48 | \$45.32 |
| 5/16"-20 | DWTSH5/16-20 | \$46.08 |
| 5/16"-27 | DWTSH5/16-27 | \$46.08 |
| 5/16"-32 | DWTSH5/16-32 | \$46.08 |
| 5/16"-40 | DWTSH5/16-40 | \$46.08 |
| 3/8"-20 | DWTSH3/8-20 | \$47.01 |
| 3/8"-27 | DWTSH3/8-27 | \$47.01 |
| 3/8"-28 | DWTSH3/8-28 | \$47.01 |
| 3/8"-32 | DWTSH3/8-32 | \$47.01 |
| 3/8"-40 | DWTSH3/8-40 | \$47.01 |
| 7/16"-18 | DWTSH7/16-18 | \$47.80 |
| 7/16"-24 | DWTSH7/16-24 | \$47.80 |
| 7/16"-28 | DWTSH7/16-28 | \$47.80 |
| 7/16"-32 | DWTSH7/16-32 | \$47.80 |
| 7/16"-40 | DWTSH7/16-40 | \$47.80 |
| 1/2"-12 | DWTSH1/2-12 | \$48.53 |
| 1/2"-16 | DWTSH1/2-16 | \$48.53 |
| 1/2"-18 | DWTSH1/2-18 | \$48.53 |
| 1/2"-24 | DWTSH1/2-24 | \$48.53 |
| 1/2"-27 | DWTSH1/2-27 | \$48.53 |
| 1/2"-28 | DWTSH1/2-28 | \$48.53 |
| 1/2"-32 | DWTSH1/2-32 | \$48.53 |
| 1/2"-36 | DWTSH1/2-36 | \$48.53 |
| 9/16"-16 | DWTSH9/16-16 | \$49.12 |
| 9/16"-20 | DWTSH9/16-20 | \$49.12 |

| Size | Part Number | List Price |
|------------|----------------|------------|
| 9/16"-24 | DWTSH9/16-24 | \$49.12 |
| 9/16"-32 | DWTSH9/16-32 | \$49.12 |
| 5/8"-16 | DWTSH5/8-16 | \$51.15 |
| 5/8"-20 | DWTSH5/8-20 | \$51.15 |
| 5/8"-24 | DWTSH5/8-24 | \$51.15 |
| 5/8"-32 | DWTSH5/8-32 | \$51.15 |
| 11/16"-18 | DWTSH11/16-18 | \$52.83 |
| 11/16"-24 | DWTSH11/16-24 | \$52.83 |
| 3/4"-12 | DWTSH3/4-12 | \$55.11 |
| 3/4"-20 | DWTSH3/4-20 | \$55.11 |
| 3/4"-24 | DWTSH3/4-24 | \$55.11 |
| 3/4"-28 | DWTSH3/4-28 | \$55.11 |
| 3/4"-32 | DWTSH3/4-32 | \$55.11 |
| 7/8"-16 | DWTSH7/8-16 | \$57.48 |
| 7/8"-18 | DWTSH7/8-18 | \$57.48 |
| 7/8"-20 | DWTSH7/8-20 | \$57.48 |
| 7/8"-24 | DWTSH7/8-24 | \$57.48 |
| 7/8"-28 | DWTSH7/8-28 | \$57.48 |
| 7/8"-32 | DWTSH7/8-32 | \$57.48 |
| 15/16"-16 | DWTSH15/16-16 | \$60.19 |
| 15/16"-20 | DWTSH15/16-20 | \$60.19 |
| 1"-16 | DWTSH1-16 | \$60.19 |
| 1"-18 | DWTSH1-18 | \$60.19 |
| 1"-20 | DWTSH1-20 | \$60.19 |
| 1"-24 | DWTSH1-24 | \$60.19 |
| 1-1/16"-16 | DWTSH1-1/16-16 | \$71.13 |
| 1-1/16"-18 | DWTSH1-1/16-18 | \$71.13 |
| 1-1/8"-16 | DWTSH1-1/8-16 | \$71.13 |
| 1-1/8"-18 | DWTSH1-1/8-18 | \$71.13 |
| 1-3/16"-12 | DWTSH1-3/16-12 | \$77.88 |

| Size | Part Number | List Price |
|------------|----------------|------------|
| 1-3/16"-16 | DWTSH1-3/16-16 | \$77.88 |
| 1-1/4"-18 | DWTSH1-1/4-18 | \$79.33 |
| 1-1/4"-24 | DWTSH1-1/4-24 | \$79.33 |
| 1-5/16"-12 | DWTSH1-5/16-12 | \$85.33 |
| 1-3/8"-16 | DWTSH1-3/8-16 | \$85.33 |
| 1-3/8"-18 | DWTSH1-3/8-18 | \$85.33 |
| 1-1/2"-16 | DWTSH1-1/2-16 | \$95.36 |
| 1-1/2"-18 | DWTSH1-1/2-18 | \$95.36 |
| 1-5/8"-12 | DWTSH1-5/8-12 | \$173.06 |
| 1-3/4"-5 | DWTSH1-3/4-5 | \$180.61 |
| 1-3/4"-12 | DWTSH1-3/4-12 | \$180.61 |
| 1-3/4"-16 | DWTSH1-3/4-16 | \$180.61 |
| 1-3/4"-18 | DWTSH1-3/4-18 | \$180.61 |
| 1-3/4"-20 | DWTSH1-3/4-20 | \$180.61 |
| 2"-4-1/2 | DWTSH2-4-1/2 | \$227.44 |
| 2"-12 | DWTSH2-12 | \$217.55 |
| 2-1/8"-12 | DWTSH2-1/8-12 | \$248.67 |
| 2-1/4"-12 | DWTSH2-1/4-12 | \$256.77 |
| 2-1/4"-16 | DWTSH2-1/4-16 | \$256.77 |
| 2-1/4"-18 | DWTSH2-1/4-18 | \$256.77 |
| 2-3/8"-12 | DWTSH2-3/8-12 | \$284.03 |
| 2-3/8"-16 | DWTSH2-3/8-16 | \$284.03 |
| 2-1/2"-4 | DWTSH2-1/2-4 | \$291.62 |
| 2-1/2"-12 | DWTSH2-1/2-12 | \$291.62 |
| 2-3/4"-12 | DWTSH2-3/4-12 | \$327.06 |
| 2-7/8"-12 | DWTSH2-7/8-12 | \$476.89 |
| 3"-12 | DWTSH3-12 | \$505.44 |

HEX DIES

SPECIAL THREAD - 8 PITCH SIZES

DWTSH Series

| Size | Part Number | List Price |
|----------|--------------|------------|
| 1-1/8"-8 | DWTSH1-1/8-8 | \$48.58 |
| 1-1/4"-8 | DWTSH1-1/4-8 | \$54.41 |
| 1-3/8"-8 | DWTSH1-3/8-8 | \$58.28 |
| 1-1/2"-8 | DWTSH1-1/2-8 | \$69.93 |
| 1-5/8"-8 | DWTSH1-5/8-8 | \$139.90 |
| 1-3/4"-8 | DWTSH1-3/4-8 | \$151.55 |
| 1-7/8"-8 | DWTSH1-7/8-8 | \$165.03 |
| 2"-8 | DWTSH2-8 | \$180.68 |
| 2-1/8"-8 | DWTSH2-1/8-8 | \$213.27 |
| 2-1/4"-8 | DWTSH2-1/4-8 | \$223.43 |

| Size | Part Number | List Price |
|----------|--------------|------------|
| 2-3/8"-8 | DWTSH2-3/8-8 | \$239.68 |
| 2-1/2"-8 | DWTSH2-1/2-8 | \$260.00 |
| 2-5/8"-8 | DWTSH2-5/8-8 | \$278.27 |
| 2-3/4"-8 | DWTSH2-3/4-8 | \$294.52 |
| 2-7/8"-8 | DWTSH2-7/8-8 | \$365.60 |
| 3"-8 | DWTSH3-8 | \$480.70 |
| 3-1/4"-8 | DWTSH3-1/4-8 | \$572.29 |
| 3-1/2"-8 | DWTSH3-1/2-8 | \$640.94 |
| 3-3/4"-8 | DWTSH3-3/4-8 | \$709.62 |
| 4"-8 | DWTSH4-8 | \$732.50 |



STANDARD METRIC SIZES

DWTMHX Series

| Size | Part Number | List Price |
|---------|---------------|------------|
| 1.6x.35 | DWTMHX1.6X.35 | \$14.03 |
| 1.8x.35 | DWTMHX1.8X.35 | \$14.03 |
| 2x.4 | DWTMHX2X.4 | \$14.03 |
| 2.2x.45 | DWTMHX2.2X.45 | \$14.03 |
| 2.5x.45 | DWTMHX2.5X.45 | \$14.03 |
| 3x.5 | DWTMHX3X.5 | \$13.07 |
| 3.5x.6 | DWTMHX3.5X.6 | \$13.07 |
| 4x.7 | DWTMHX4X.7 | \$13.07 |
| 4.5x.75 | DWTMHX4.5X.75 | \$13.07 |
| 5x.8 | DWTMHX5X.8 | \$13.07 |
| 6x1 | DWTMHX6X1 | \$13.68 |
| 7x1 | DWTMHX7X1 | \$14.65 |
| 8x1 | DWTMHX8X1 | \$14.65 |
| 8x1.25 | DWTMHX8X1.25 | \$14.65 |

| Size | Part Number | List Price |
|---------|---------------|------------|
| 10x1.25 | DWTMHX10X1.25 | \$18.09 |
| 10x1.5 | DWTMHX10X1.5 | \$18.09 |
| 12x1.25 | DWTMHX12X1.25 | \$19.59 |
| 12x1.75 | DWTMHX12X1.75 | \$19.59 |
| 14x1.25 | DWTMHX14X1.25 | \$20.70 |
| 14x1.5 | DWTMHX14X1.5 | \$20.70 |
| 14x2 | DWTMHX14X2 | \$20.70 |
| 16x1.5 | DWTMHX16X1.5 | \$23.72 |
| 16x2 | DWTMHX16X2 | \$23.72 |
| 18x1.5 | DWTMHX18X1.5 | \$30.82 |
| 18x2.5 | DWTMHX18X2.5 | \$30.82 |
| 20x1.5 | DWTMHX20X1.5 | \$39.08 |
| 20x2.5 | DWTMHX20X2.5 | \$39.08 |
| 22x1.5 | DWTMHX22X1.5 | \$47.66 |

| Size | Part Number | List Price |
|--------|--------------|------------|
| 22x2.5 | DWTMHX22X2.5 | \$47.66 |
| 24x2 | DWTMHX24X2 | \$50.20 |
| 24x3 | DWTMHX24X3 | \$50.20 |
| 27x2 | DWTMHX27X2 | \$55.85 |
| 27x3 | DWTMHX27X3 | \$55.85 |
| 30x2 | DWTMHX30X2 | \$67.57 |
| 30x3.5 | DWTMHX30X3.5 | \$67.57 |
| 33x2 | DWTMHX33X2 | \$74.38 |
| 33x3.5 | DWTMHX33X3.5 | \$74.38 |
| 36x3 | DWTMHX36X3 | \$81.90 |
| 36x4 | DWTMHX36X4 | \$81.90 |
| 39x3 | DWTMHX39X3 | \$85.96 |
| 39x4 | DWTMHX39X4 | \$90.11 |

SPECIAL THREAD METRIC SIZES

DWTSMH Series

| Size | Part Number | List Price |
|--------|--------------|------------|
| 3x.6 | DWTSMH3X.6 | \$19.07 |
| 4x.5 | DWTSMH4X.5 | \$19.07 |
| 4x.75 | DWTSMH4X.75 | \$19.07 |
| 5x.5 | DWTSMH5X.5 | \$19.07 |
| 5x.75 | DWTSMH5X.75 | \$19.07 |
| 5x.9 | DWTSMH5X.9 | \$19.07 |
| 6x.5 | DWTSMH6X.5 | \$19.07 |
| 6x.75 | DWTSMH6X.75 | \$19.07 |
| 6x1.25 | DWTSMH6X1.25 | \$19.07 |
| 6.3x1 | DWTSMH6.3X1 | \$19.07 |
| 7x.75 | DWTSMH7X.75 | \$20.09 |
| 8x.5 | DWTSMH8X.5 | \$20.09 |
| 8x.75 | DWTSMH8X.75 | \$20.09 |
| 8x1.5 | DWTSMH8X1.5 | \$20.09 |
| 9x.75 | DWTSMH9X.75 | \$22.43 |
| 9x1 | DWTSMH9X1 | \$22.43 |
| 9x1.25 | DWTSMH9X1.25 | \$22.43 |
| 10x.75 | DWTSMH10X.75 | \$22.74 |
| 10x1 | DWTSMH10X1 | \$22.74 |
| 11x.75 | DWTSMH11X.75 | \$28.44 |
| 11x1 | DWTSMH11X1 | \$28.44 |

| Size | Part Number | List Price |
|---------|---------------|------------|
| 11x1.25 | DWTSMH11X1.25 | \$28.44 |
| 11x1.5 | DWTSMH11X1.5 | \$28.44 |
| 12x.75 | DWTSMH12X.75 | \$26.92 |
| 12x1 | DWTSMH12X1 | \$26.92 |
| 12x1.5 | DWTSMH12X1.5 | \$26.92 |
| 13x.5 | DWTSMH13X.5 | \$29.87 |
| 13x1.25 | DWTSMH13X1.25 | \$29.87 |
| 13x1.5 | DWTSMH13X1.5 | \$29.87 |
| 13x2 | DWTSMH13X2 | \$29.87 |
| 14x1 | DWTSMH14X1 | \$32.31 |
| 14x1.75 | DWTSMH14X1.75 | \$32.31 |
| 15x1 | DWTSMH15X1 | \$35.41 |
| 15x1.5 | DWTSMH15X1.5 | \$35.41 |
| 16x1 | DWTSMH16X1 | \$37.15 |
| 16x1.75 | DWTSMH16X1.75 | \$37.15 |
| 18x1 | DWTSMH18X1 | \$39.10 |
| 18x1.25 | DWTSMH18X1.25 | \$39.10 |
| 18x2 | DWTSMH18X2 | \$39.10 |
| 19x1 | DWTSMH19X1 | \$47.44 |
| 19x1.5 | DWTSMH19X1.5 | \$47.44 |
| 19x2.5 | DWTSMH19X2.5 | \$47.44 |

| Size | Part Number | List Price |
|---------|---------------|------------|
| 20x1 | DWTSMH20X1 | \$47.44 |
| 20x1.25 | DWTSMH20X1.25 | \$47.44 |
| 20x2 | DWTSMH20X2 | \$47.44 |
| 22x2 | DWTSMH22X2 | \$49.64 |
| 24x1 | DWTSMH24X1 | \$54.04 |
| 24x1.5 | DWTSMH24X1.5 | \$54.04 |
| 26x1 | DWTSMH26X1 | \$58.48 |
| 26x1.5 | DWTSMH26X1.5 | \$58.48 |
| 26x2 | DWTSMH26X2 | \$58.48 |
| 26x2.5 | DWTSMH26X2.5 | \$58.48 |
| 26x3 | DWTSMH26X3 | \$58.48 |
| 27x1.5 | DWTSMH27X1.5 | \$59.57 |
| 27x2.5 | DWTSMH27X2.5 | \$59.57 |
| 30x1 | DWTSMH30X1 | \$70.64 |
| 30x1.5 | DWTSMH30X1.5 | \$70.64 |
| 35x1.5 | DWTSMH35X1.5 | \$99.30 |
| 36x1.5 | DWTSMH36X1.5 | \$99.30 |
| 36x2 | DWTSMH36X2 | \$99.30 |
| 42x4.5 | DWTSMH42X4.5 | \$139.02 |
| 48x5 | DWTSMH48X5 | \$176.52 |

ROUND DIES

HSS ROUND STANDARD SIZES

DWT Series - High Speed Adjustable Round Dies

For threading, a High Speed Steel Round Adjustable Die is desired for improved wear life. Round Dies are chamfered on both faces. One side has a 2 to 3 thread chamfer for threading, the other side has a 1" to 1-1/2" thread chamfer for threading close to a shoulder. Adjustment is obtained by a fine pitch screw which forces the sides of the die apart, or allows them to spring together. The slot is beveled so that when the dies are used in a machine holder the adjusting screw can be removed and adjustment made by the adjusting screws in the holder.

| 13 / 16" OD DWT Series | | |
|------------------------|----------------|------------|
| Size | Part Number | List Price |
| 0-80 | DWTH1316-080 | \$13.17 |
| 1-64 | DWTH1316-164 | \$13.17 |
| 1-72 | DWTH1316-172 | \$13.17 |
| 2-56 | DWTH1316-256 | \$13.17 |
| 2-64 | DWTH1316-264 | \$13.17 |
| 3-48 | DWTH1316-348 | \$13.17 |
| 3-56 | DWTH1316-356 | \$13.17 |
| 4-36 | DWTH1316-436 | \$13.17 |
| 4-40 | DWTH1316-440 | \$13.17 |
| 4-48 | DWTH1316-448 | \$13.17 |
| 5-40 | DWTH1316-540 | \$13.17 |
| 5-44 | DWTH1316-544 | \$13.17 |
| 6-32 | DWTH1316-632 | \$13.17 |
| 6-40 | DWTH1316-640 | \$13.17 |
| 8-32 | DWTH1316-832 | \$13.17 |
| 8-36 | DWTH1316-836 | \$13.17 |
| 10-24 | DWTH1316-1024 | \$13.17 |
| 10-32 | DWTH1316-1032 | \$13.17 |
| 12-24 | DWTH1316-1224 | \$13.17 |
| 12-28 | DWTH1316-1228 | \$13.17 |
| 1/4"-20 | DWTH1316-1420 | \$13.17 |
| 1/4"-28 | DWTH1316-1428 | \$13.17 |
| 5/16"-18 | DWTH1316-51618 | \$13.17 |
| 5/16"-24 | DWTH1316-51624 | \$13.17 |

| 1" OD DWT Series | | |
|------------------|-------------|------------|
| Size | Part Number | List Price |
| 2-56 | DWTH1-256 | \$16.13 |
| 3-56 | DWTH1-356 | \$16.13 |
| 4-36 | DWTH1-436 | \$16.13 |
| 4-40 | DWTH1-440 | \$16.13 |
| 4-48 | DWTH1-448 | \$16.13 |
| 5-40 | DWTH1-540 | \$16.13 |
| 5-44 | DWTH1-544 | \$16.13 |
| 6-32 | DWTH1-632 | \$16.13 |
| 6-40 | DWTH1-640 | \$16.13 |
| 8-32 | DWTH1-832 | \$16.13 |
| 8-36 | DWTH1-836 | \$16.13 |
| 10-24 | DWTH1-1024 | \$16.13 |
| 10-32 | DWTH1-1032 | \$16.13 |
| 12-24 | DWTH1-1224 | \$16.13 |
| 12-28 | DWTH1-1228 | \$16.13 |
| 1/4"-20 | DWTH1-1420 | \$16.13 |
| 1/4"-28 | DWTH1-1428 | \$16.13 |
| 5/16"-18 | DWTH1-51618 | \$16.13 |
| 5/16"-24 | DWTH1-51624 | \$16.13 |
| 3/8"-16 | DWTH1-3816 | \$16.13 |
| 3/8"-24 | DWTH1-3824 | \$16.13 |
| 7/16"-14 | DWTH1-71614 | \$16.13 |
| 7/16"-20 | DWTH1-71620 | \$16.13 |
| 1/2"-13 | DWTH1-1213 | \$16.13 |
| 1/2"-20 | DWTH1-1220 | \$16.13 |

| 1-1/2" OD DWT Series | | |
|----------------------|----------------|------------|
| Size | Part Number | List Price |
| 1/4"-20 | DWTH112-1420 | \$25.99 |
| 1/4"-28 | DWTH112-1428 | \$25.99 |
| 5/16"-18 | DWTH112-51618 | \$25.99 |
| 5/16"-24 | DWTH112-51624 | \$25.99 |
| 3/8"-16 | DWTH112-3816 | \$25.99 |
| 3/8"-24 | DWTH112-3824 | \$25.99 |
| 7/16"-14 | DWTH112-71614 | \$25.99 |
| 7/16"-20 | DWTH112-71620 | \$25.99 |
| 1/2"-13 | DWTH112-1213 | \$25.99 |
| 1/2"-20 | DWTH112-1220 | \$25.99 |
| 9/16"-12 | DWTH112-91612 | \$25.99 |
| 9/16"-18 | DWTH112-91618 | \$25.99 |
| 5/8"-11 | DWTH112-5811 | \$25.99 |
| 5/8"-18 | DWTH112-5818 | \$25.99 |
| 11/16"-11 | DWTH112-111611 | \$25.99 |
| 11/16"-16 | DWTH112-111616 | \$25.99 |
| 3/4"-10 | DWTH112-3410 | \$25.99 |
| 3/4"-16 | DWTH112-3416 | \$25.99 |

| 2" OD DWT Series | | |
|------------------|--------------|------------|
| Size | Part Number | List Price |
| 1/4"-20 | DWTH2-1420 | \$47.11 |
| 1/4"-28 | DWTH2-1428 | \$47.11 |
| 5/16"-18 | DWTH2-51618 | \$47.11 |
| 5/16"-24 | DWTH2-51624 | \$47.11 |
| 3/8"-16 | DWTH2-3816 | \$47.11 |
| 3/8"-24 | DWTH2-3824 | \$47.11 |
| 7/16"-14 | DWTH2-71614 | \$47.11 |
| 7/16"-20 | DWTH2-71620 | \$47.11 |
| 1/2"-13 | DWTH2-1213 | \$47.11 |
| 1/2"-20 | DWTH2-1220 | \$47.11 |
| 9/16"-12 | DWTH2-91612 | \$47.11 |
| 9/16"-18 | DWTH2-91618 | \$47.11 |
| 5/8"-11 | DWTH2-5811 | \$47.11 |
| 5/8"-18 | DWTH2-5818 | \$47.11 |
| 11/16"-11 | DWTH2-111611 | \$47.11 |
| 3/4"-10 | DWTH2-3410 | \$47.11 |
| 3/4"-16 | DWTH2-3416 | \$47.11 |
| 7/8"-9 | DWTH2-789 | \$47.11 |
| 7/8"-14 | DWTH2-7814 | \$47.11 |
| 1"-8 | DWTH2-18 | \$47.11 |
| 1"-12 | DWTH2-112 | \$47.11 |
| 1"-14 | DWTH2-114 | \$47.11 |

| 2-1/2" OD DWT Series | | |
|----------------------|---------------|------------|
| Size | Part Number | List Price |
| 7/8"-9 | DWTH212-789 | \$92.18 |
| 7/8"-14 | DWTH212-7814 | \$92.18 |
| 1"-8 | DWTH212-18 | \$92.18 |
| 1"-12 | DWTH212-112 | \$92.18 |
| 1"-14 | DWTH212-114 | \$92.18 |
| 1-1/8"-7 | DWTH212-1187 | \$92.18 |
| 1-1/8"-12 | DWTH212-11812 | \$92.18 |
| 1-1/4"-7 | DWTH212-1147 | \$92.18 |
| 1-1/4"-12 | DWTH212-11412 | \$92.18 |
| 1-3/8"-6 | DWTH212-1386 | \$92.18 |
| 1-3/8"-12 | DWTH212-13812 | \$92.18 |
| 1-1/2"-6 | DWTH212-1126 | \$92.18 |
| 1-1/2"-12 | DWTH212-11212 | \$92.18 |

| 3" OD DWT Series | | |
|------------------|-------------|------------|
| Size | Part Number | List Price |
| 1-1/8"-7 | DWTH3-1187 | \$157.73 |
| 1-1/8"-12 | DWTH3-11812 | \$157.73 |
| 1-1/4"-7 | DWTH3-1147 | \$157.73 |
| 1-1/4"-12 | DWTH3-11412 | \$157.73 |
| 1-3/8"-6 | DWTH3-1386 | \$157.73 |
| 1-3/8"-12 | DWTH3-13812 | \$157.73 |
| 1-1/2"-6 | DWTH3-1126 | \$157.73 |
| 1-1/2"-12 | DWTH3-11212 | \$157.73 |



ROUND DIES

HSS ROUND SPECIAL SIZES



13 / 16" OD DWT Series

| Size | Part Number | List Price |
|------|---------------|------------|
| 1-56 | DWTSR1316-156 | \$36.93 |
| 4-32 | DWTSR1316-432 | \$36.93 |
| 4-60 | DWTSR1316-460 | \$36.93 |
| 4-64 | DWTSR1316-464 | \$36.93 |
| 5-36 | DWTSR1316-536 | \$36.93 |
| 5-48 | DWTSR1316-548 | \$36.93 |
| 6-36 | DWTSR1316-636 | \$36.93 |
| 6-48 | DWTSR1316-648 | \$36.93 |
| 6-56 | DWTSR1316-656 | \$36.93 |

| Size | Part Number | List Price |
|----------|-----------------|------------|
| 8-24 | DWTSR1316-824 | \$36.93 |
| 8-48 | DWTSR1316-848 | \$36.93 |
| 10-36 | DWTSR1316-1036 | \$36.93 |
| 12-32 | DWTSR1316-1232 | \$36.93 |
| 12-36 | DWTSR1316-1236 | \$36.93 |
| 12-40 | DWTSR1316-1240 | \$36.93 |
| 12-48 | DWTSR1316-1248 | \$36.93 |
| 5/32"-32 | DWTSR1316-53232 | \$36.93 |
| 5/32"-36 | DWTSR1316-53236 | \$36.93 |

| Size | Part Number | List Price |
|----------|-----------------|------------|
| 3/16"-24 | DWTSR1316-31624 | \$36.93 |
| 3/16"-32 | DWTSR1316-31632 | \$36.93 |
| 7/32"-24 | DWTSR1316-73224 | \$36.93 |
| 1/4"-27 | DWTSR1316-1427 | \$36.93 |
| 1/4"-32 | DWTSR1316-1432 | \$36.93 |
| 1/4"-40 | DWTSR1316-1440 | \$36.93 |
| 5/16"-27 | DWTSR1316-51627 | \$36.93 |
| 5/16"-36 | DWTSR1316-51636 | \$36.93 |

1" OD DWT Series

| Size | Part Number | List Price |
|----------|--------------|------------|
| 6-36 | DWTSR1-636 | \$41.93 |
| 6-48 | DWTSR1-648 | \$41.93 |
| 10-28 | DWTSR1-1028 | \$41.93 |
| 10-56 | DWTSR1-1056 | \$41.93 |
| 5/32"-32 | DWTSR1-53232 | \$41.93 |
| 3/16"-24 | DWTSR1-31624 | \$41.93 |
| 3/16"-32 | DWTSR1-31632 | \$41.93 |
| 7/32"-24 | DWTSR1-73224 | \$41.93 |
| 7/32"-40 | DWTSR1-73240 | \$41.93 |
| 1/4"-16 | DWTSR1-1416 | \$41.93 |
| 1/4"-18 | DWTSR1-1418 | \$41.93 |
| 1/4"-22 | DWTSR1-1422 | \$41.93 |
| 1/4"-24 | DWTSR1-1424 | \$41.93 |
| 1/4"-26 | DWTSR1-1426 | \$41.93 |
| 1/4"-27 | DWTSR1-1427 | \$41.93 |
| 1/4"-30 | DWTSR1-1430 | \$41.93 |
| 1/4"-32 | DWTSR1-1432 | \$41.93 |
| 1/4"-36 | DWTSR1-1436 | \$41.93 |
| 1/4"-40 | DWTSR1-1440 | \$41.93 |
| 1/4"-48 | DWTSR1-1448 | \$41.93 |
| 1/4"-56 | DWTSR1-1456 | \$41.93 |
| 1/4"-60 | DWTSR1-1460 | \$41.93 |
| 1/4"-64 | DWTSR1-1464 | \$41.93 |
| 1/4"-72 | DWTSR1-1472 | \$41.93 |
| 1/4"-80 | DWTSR1-1480 | \$41.93 |

| Size | Part Number | List Price |
|----------|--------------|------------|
| 9/32"-32 | DWTSR1-93232 | \$41.93 |
| 5/16"-16 | DWTSR1-51616 | \$41.93 |
| 5/16"-20 | DWTSR1-51620 | \$41.93 |
| 5/16"-22 | DWTSR1-51622 | \$41.93 |
| 5/16"-27 | DWTSR1-51627 | \$41.93 |
| 5/16"-28 | DWTSR1-51628 | \$41.93 |
| 5/16"-30 | DWTSR1-51630 | \$41.93 |
| 5/16"-32 | DWTSR1-51632 | \$41.93 |
| 5/16"-36 | DWTSR1-51636 | \$41.93 |
| 5/16"-40 | DWTSR1-51640 | \$41.93 |
| 5/16"-48 | DWTSR1-51648 | \$41.93 |
| 5/16"-56 | DWTSR1-51656 | \$41.93 |
| 5/16"-64 | DWTSR1-51664 | \$41.93 |
| 5/16"-72 | DWTSR1-51672 | \$41.93 |
| 3/8"-14 | DWTSR1-3814 | \$41.93 |
| 3/8"-18 | DWTSR1-3818 | \$41.93 |
| 3/8"-20 | DWTSR1-3820 | \$41.93 |
| 3/8"-26 | DWTSR1-3826 | \$41.93 |
| 3/8"-32 | DWTSR1-3832 | \$41.93 |
| 3/8"-36 | DWTSR1-3836 | \$41.93 |
| 3/8"-40 | DWTSR1-3840 | \$41.93 |
| 3/8"-48 | DWTSR1-3848 | \$41.93 |
| 3/8"-56 | DWTSR1-3856 | \$41.93 |
| 3/8"-64 | DWTSR1-3864 | \$41.93 |
| 3/8"-72 | DWTSR1-3872 | \$41.93 |

| Size | Part Number | List Price |
|----------|--------------|------------|
| 3/8"-80 | DWTSR1-3880 | \$41.93 |
| 7/16"-12 | DWTSR1-71612 | \$41.93 |
| 7/16"-16 | DWTSR1-71616 | \$41.93 |
| 7/16"-18 | DWTSR1-71618 | \$41.93 |
| 7/16"-24 | DWTSR1-71624 | \$41.93 |
| 7/16"-27 | DWTSR1-71627 | \$41.93 |
| 7/16"-32 | DWTSR1-71632 | \$41.93 |
| 7/16"-36 | DWTSR1-71636 | \$41.93 |
| 7/16"-40 | DWTSR1-71640 | \$41.93 |
| 7/16"-48 | DWTSR1-71648 | \$41.93 |
| 7/16"-56 | DWTSR1-71656 | \$41.93 |
| 7/16"-64 | DWTSR1-71664 | \$41.93 |
| 7/16"-72 | DWTSR1-71672 | \$41.93 |
| 7/16"-80 | DWTSR1-71680 | \$41.93 |
| 1/2"-14 | DWTSR1-1214 | \$41.93 |
| 1/2"-16 | DWTSR1-1216 | \$41.93 |
| 1/2"-18 | DWTSR1-1218 | \$41.93 |
| 1/2"-24 | DWTSR1-1224 | \$41.93 |
| 1/2"-27 | DWTSR1-1227 | \$41.93 |
| 1/2"-28 | DWTSR1-1228 | \$41.93 |
| 1/2"-32 | DWTSR1-1232 | \$41.93 |
| 1/2"-36 | DWTSR1-1236 | \$41.93 |
| 1/2"-40 | DWTSR1-1240 | \$41.93 |
| 1/2"-48 | DWTSR1-1248 | \$41.93 |

1 - 1/2" OD DWT Series

| Size | Part Number | List Price |
|-----------|-----------------|------------|
| 1/4"-32 | DWTSR112-1432 | \$66.02 |
| 1/4"-48 | DWTSR112-1448 | \$66.02 |
| 5/16"-16 | DWTSR112-51616 | \$66.02 |
| 5/16"-27 | DWTSR112-51627 | \$66.02 |
| 5/16"-30 | DWTSR112-51630 | \$66.02 |
| 3/8"-27 | DWTSR112-3827 | \$66.02 |
| 3/8"-28 | DWTSR112-3828 | \$66.02 |
| 3/8"-32 | DWTSR112-3832 | \$66.02 |
| 3/8"-48 | DWTSR112-3848 | \$66.02 |
| 7/16"-24 | DWTSR112-71624 | \$66.02 |
| 7/16"-27 | DWTSR112-71627 | \$66.02 |
| 7/16"-28 | DWTSR112-71628 | \$66.02 |
| 15/32"-32 | DWTSR112-153232 | \$66.02 |

| Size | Part Number | List Price |
|----------|----------------|------------|
| 1/2"-24 | DWTSR112-1224 | \$66.02 |
| 1/2"-40 | DWTSR112-1240 | \$66.02 |
| 9/16"-16 | DWTSR112-91616 | \$66.02 |
| 9/16"-20 | DWTSR112-91620 | \$66.02 |
| 9/16"-24 | DWTSR112-91624 | \$66.02 |
| 9/16"-27 | DWTSR112-91627 | \$66.02 |
| 9/16"-36 | DWTSR112-91636 | \$66.02 |
| 9/16"-40 | DWTSR112-91640 | \$66.02 |
| 5/8"-12 | DWTSR112-5812 | \$66.02 |
| 5/8"-20 | DWTSR112-5820 | \$66.02 |
| 5/8"-24 | DWTSR112-5824 | \$66.02 |
| 5/8"-27 | DWTSR112-5827 | \$66.02 |
| 5/8"-28 | DWTSR112-5828 | \$66.02 |

| Size | Part Number | List Price |
|-----------|-----------------|------------|
| 5/8"-32 | DWTSR112-5832 | \$66.02 |
| 5/8"-40 | DWTSR112-5840 | \$66.02 |
| 11/16"-18 | DWTSR112-111618 | \$66.02 |
| 3/4"-12 | DWTSR112-3412 | \$66.02 |
| 3/4"-14 | DWTSR112-3414 | \$66.02 |
| 3/4"-18 | DWTSR112-3418 | \$66.02 |
| 3/4"-20 | DWTSR112-3420 | \$66.02 |
| 3/4"-24 | DWTSR112-3424 | \$66.02 |
| 3/4"-27 | DWTSR112-3427 | \$66.02 |
| 3/4"-32 | DWTSR112-3432 | \$66.02 |
| 3/4"-40 | DWTSR112-3440 | \$66.02 |
| 13/16"-32 | DWTSR112-131632 | \$66.02 |

ROUND DIES

HSS SPECIAL SIZES

2" OD DWT Series

| Size | Part Number | List Price |
|-----------|---------------|------------|
| 13/16"-16 | DWTSR2-131616 | \$141.21 |
| 7/8"-10 | DWTSR2-7810 | \$141.21 |
| 7/8"-16 | DWTSR2-7816 | \$141.21 |
| 7/8"-18 | DWTSR2-7818 | \$141.21 |
| 7/8"-20 | DWTSR2-7820 | \$141.21 |
| 7/8"-24 | DWTSR2-7824 | \$141.21 |
| 7/8"-27 | DWTSR2-7827 | \$141.21 |
| 15/16"-20 | DWTSR2-151620 | \$141.21 |
| 1"-16 | DWTSR2-116 | \$141.21 |
| 1"-18 | DWTSR2-118 | \$141.21 |
| 1"-20 | DWTSR2-120 | \$141.21 |
| 1"-24 | DWTSR2-124 | \$141.21 |
| 1"-32 | DWTSR2-132 | \$141.21 |

2 - 1/2" OD DWT Series

| Size | Part Number | List Price |
|------------|-----------------|------------|
| 1-1/16"-20 | DWTSR212-111620 | \$169.46 |
| 1-1/16"-24 | DWTSR212-111624 | \$169.46 |
| 1-1/8"-8 | DWTSR212-1188 | \$169.46 |
| 1-1/8"-20 | DWTSR212-11820 | \$169.46 |
| 1-3/16"-8 | DWTSR212-13168 | \$169.46 |
| 1-3/16"-18 | DWTSR212-131618 | \$169.46 |
| 1-3/16"-20 | DWTSR212-131620 | \$169.46 |
| 1-1/4"-8 | DWTSR212-1148 | \$169.46 |
| 1-5/16"-8 | DWTSR212-15168 | \$169.46 |
| 1-5/16"-12 | DWTSR212-151612 | \$169.46 |
| 1-5/16"-24 | DWTSR212-151624 | \$169.46 |
| 1-3/8"-18 | DWTSR212-13818 | \$169.46 |
| 1-3/8"-24 | DWTSR212-13824 | \$169.46 |

3" OD DWT Series

| Size | Part Number | List Price |
|-----------|--------------|------------|
| 1-3/4"-5 | DWTSR3-1345 | \$295.95 |
| 1-3/4"-8 | DWTSR3-1348 | \$295.95 |
| 1-3/4"-12 | DWTSR3-13412 | \$295.95 |
| 1-7/8"-8 | DWTSR3-1788 | \$295.95 |
| 1-7/8"-12 | DWTSR3-17812 | \$295.95 |
| 2"-4-1/2 | DWTSR3-2412 | \$295.95 |
| 2"-8 | DWTSR3-28 | \$295.95 |
| 2"-12 | DWTSR3-212 | \$295.95 |

HSS METRIC STANDARD SIZES

13/16" OD DWT Series

| Size | Part Number | List Price |
|---------|-------------------|------------|
| 1.6x.35 | DWTMR1316-1.6X.35 | \$21.60 |
| 1.8x.35 | DWTMR1316-1.8X.35 | \$21.60 |
| 2x.4 | DWTMR1316-2X.4 | \$21.60 |
| 2.2x.45 | DWTMR1316-2.2X.45 | \$21.60 |
| 2.5x.45 | DWTMR1316-2.5X.45 | \$21.60 |
| 3x.5 | DWTMR1316-3X.5 | \$21.60 |
| 3.5x.6 | DWTMR1316-3.5X.6 | \$21.60 |
| 4x.7 | DWTMR1316-4X.7 | \$21.60 |
| 4.5x.75 | DWTMR1316-4.5X.75 | \$21.60 |
| 5x.8 | DWTMR1316-5X.8 | \$21.60 |
| 6x1 | DWTMR1316-6X1 | \$21.60 |
| 7x1 | DWTMR1316-7X1 | \$21.60 |

1" OD DWT Series

| Size | Part Number | List Price |
|---------|----------------|------------|
| 3x.5 | DWTMR1-3X.5 | \$26.87 |
| 3.5x.6 | DWTMR1-3.5X.6 | \$26.87 |
| 4x.7 | DWTMR1-4X.7 | \$26.87 |
| 4.5x.75 | DWTMR1-4.5X.75 | \$26.87 |
| 5x.8 | DWTMR1-5X.8 | \$26.87 |
| 6x1 | DWTMR1-6X1 | \$26.87 |
| 7x1 | DWTMR1-7X1 | \$26.87 |
| 8x1 | DWTMR1-8X1 | \$26.87 |
| 8x1.25 | DWTMR1-8X1.25 | \$26.87 |
| 10x1.25 | DWTMR1-10X1.25 | \$26.87 |
| 10x1.5 | DWTMR1-10X1.5 | \$26.87 |
| 12x1.25 | DWTMR1-12X1.25 | \$26.87 |
| 12x1.75 | DWTMR1-12X1.75 | \$26.87 |

1 - 1/2" OD DWT Series

| Size | Part Number | List Price |
|---------|------------------|------------|
| 6x1 | DWTMR112-6X1 | \$42.87 |
| 7x1 | DWTMR112-7X1 | \$42.87 |
| 8x1 | DWTMR112-8X1 | \$42.87 |
| 8x1.25 | DWTMR112-8X1.25 | \$42.87 |
| 10x1.25 | DWTMR112-10X1.25 | \$42.87 |
| 10x1.5 | DWTMR112-10X1.5 | \$42.87 |
| 12x1.25 | DWTMR112-12X1.25 | \$42.87 |
| 12x1.75 | DWTMR112-12X1.75 | \$42.87 |
| 14x1.25 | DWTMR112-14X1.25 | \$42.87 |
| 14x1.5 | DWTMR112-14X1.5 | \$42.87 |
| 14x2 | DWTMR112-14X2 | \$42.87 |
| 16x1.5 | DWTMR112-16X1.5 | \$42.87 |
| 16x2 | DWTMR112-16X2 | \$42.87 |
| 18x1.5 | DWTMR112-18X1.5 | \$42.87 |
| 18x2.5 | DWTMR112-18X2.5 | \$42.87 |
| 20x1.5 | DWTMR112-20X1.5 | \$42.87 |
| 20x2.5 | DWTMR112-20X2.5 | \$42.87 |

2" OD DWT Series

| Size | Part Number | List Price |
|---------|----------------|------------|
| 6x1 | DWTMR2-6X1 | \$77.15 |
| 7x1 | DWTMR2-7X1 | \$77.15 |
| 8x1.25 | DWTMR2-8X1.25 | \$77.15 |
| 10x1.25 | DWTMR2-10X1.25 | \$77.15 |
| 12x1.75 | DWTMR2-12X1.75 | \$77.15 |
| 14x1.5 | DWTMR2-14X1.5 | \$77.15 |
| 14x2 | DWTMR2-14X2 | \$77.15 |
| 16x1.5 | DWTMR2-16X1.5 | \$77.15 |
| 16x2 | DWTMR2-16X2 | \$77.15 |
| 18x1.5 | DWTMR2-18X1.5 | \$77.15 |
| 18x2.5 | DWTMR2-18X2.5 | \$77.15 |
| 20x1.5 | DWTMR2-20X1.5 | \$77.15 |
| 20x2.5 | DWTMR2-20X2.5 | \$77.15 |
| 22x1.5 | DWTMR2-22X1.5 | \$77.15 |
| 22x2.5 | DWTMR2-22X2.5 | \$77.15 |
| 24x2 | DWTMR2-24X2 | \$77.15 |
| 24x3 | DWTMR2-24X3 | \$77.15 |
| 27x2 | DWTMR2-27X2 | \$77.15 |
| 27x3 | DWTMR2-27X3 | \$77.15 |
| 30x2 | DWTMR2-30X2 | \$77.15 |
| 30x3.5 | DWTMR2-30X3.5 | \$77.15 |

2 - 1/2" OD DWT Series

| Size | Part Number | List Price |
|--------|-----------------|------------|
| 24x3 | DWTMR212-24X3 | \$119.08 |
| 27x2 | DWTMR212-27X2 | \$119.08 |
| 27x3 | DWTMR212-27X3 | \$119.08 |
| 30x2 | DWTMR212-30X2 | \$119.08 |
| 30x3.5 | DWTMR212-30X3.5 | \$119.08 |
| 33x2 | DWTMR212-33X2 | \$119.08 |
| 33x3.5 | DWTMR212-33X3.5 | \$119.08 |
| 36x3 | DWTMR212-36X3 | \$119.08 |
| 36x4 | DWTMR212-36X4 | \$119.08 |
| 39x3 | DWTMR212-39X3 | \$119.08 |

3" OD DWT Series

| Size | Part Number | List Price |
|--------|---------------|------------|
| 33x3.5 | DWTMR3-33X3.5 | \$171.64 |
| 36x3 | DWTMR3-36X3 | \$171.64 |
| 36x4 | DWTMR3-36X4 | \$171.64 |
| 39x3 | DWTMR3-39X3 | \$171.64 |
| 39x4 | DWTMR3-39X4 | \$171.64 |



ROUND DIES

HSS METRIC SPECIAL SIZES



13/16" OD DWT Series

| Size | Part Number | List Price |
|--------|-------------------|------------|
| 1x.25 | DWTSMR1316-1X.25 | \$41.38 |
| 1.2x.2 | DWTSMR1316-1.2X.2 | \$41.38 |
| 1.4x.2 | DWTSMR1316-1.4X.2 | \$41.38 |
| 1.5x.3 | DWTSMR1316-1.5X.3 | \$41.38 |
| 1.7x.2 | DWTSMR1316-1.7X.2 | \$41.38 |
| 2x.25 | DWTSMR1316-2X.25 | \$41.38 |

| Size | Part Number | List Price |
|---------|--------------------|------------|
| 2.3x.4 | DWTSMR1316-2.3X.4 | \$41.38 |
| 2.5x.5 | DWTSMR1316-2.5X.5 | \$41.38 |
| 2.6x.45 | DWTSMR1316-2.6X.45 | \$41.38 |
| 3x.6 | DWTSMR1316-3X.6 | \$41.38 |
| 4x.5 | DWTSMR1316-4X.5 | \$41.38 |
| 4x.75 | DWTSMR1316-4X.75 | \$41.38 |

| Size | Part Number | List Price |
|--------|-------------------|------------|
| 5x.75 | DWTSMR1316-5X.75 | \$41.38 |
| 5.5x.9 | DWTSMR1316-5.5X.9 | \$41.38 |
| 6x.5 | DWTSMR1316-6X.5 | \$41.38 |
| 7x.75 | DWTSMR1316-7X.75 | \$41.38 |
| 8x1.5 | DWTSMR1316-8X1.5 | \$41.38 |

1" OD DWT Series

| Size | Part Number | List Price |
|--------|----------------|------------|
| 3x.6 | DWTSMR1-3X.6 | \$51.74 |
| 3.5x.5 | DWTSMR1-3.5X.5 | \$51.74 |
| 4x.5 | DWTSMR1-4X.5 | \$51.74 |
| 4x.75 | DWTSMR1-4X.75 | \$51.74 |
| 4.5x.5 | DWTSMR1-4.5X.5 | \$51.74 |
| 5x.5 | DWTSMR1-5X.5 | \$51.74 |
| 5x.7 | DWTSMR1-5X.7 | \$51.74 |
| 5x.75 | DWTSMR1-5X.75 | \$51.74 |
| 5x.9 | DWTSMR1-5X.9 | \$51.74 |
| 5x1 | DWTSMR1-5X1 | \$51.74 |
| 5.5x.5 | DWTSMR1-5.5X.5 | \$51.74 |
| 5.5x.9 | DWTSMR1-5.5X.9 | \$51.74 |
| 6x.5 | DWTSMR1-6X.5 | \$51.74 |
| 6x.75 | DWTSMR1-6X.75 | \$51.74 |
| 6x1.25 | DWTSMR1-6X1.25 | \$51.74 |

| Size | Part Number | List Price |
|--------|----------------|------------|
| 6.3x1 | DWTSMR1-6.3X1 | \$51.74 |
| 7x.5 | DWTSMR1-7X.5 | \$51.74 |
| 7x.75 | DWTSMR1-7X.75 | \$51.74 |
| 7x1.25 | DWTSMR1-7X1.25 | \$51.74 |
| 8x.5 | DWTSMR1-8X.5 | \$51.74 |
| 8x.75 | DWTSMR1-8X.75 | \$51.74 |
| 8x1.5 | DWTSMR1-8X1.5 | \$51.74 |
| 8x1.75 | DWTSMR1-8X1.75 | \$51.74 |
| 9x.5 | DWTSMR1-9X.5 | \$51.74 |
| 9x.75 | DWTSMR1-9X.75 | \$51.74 |
| 9x1 | DWTSMR1-9X1 | \$51.74 |
| 9x1.25 | DWTSMR1-9X1.25 | \$51.74 |
| 9x1.5 | DWTSMR1-9X1.5 | \$51.74 |
| 10x.5 | DWTSMR1-10X.5 | \$51.74 |
| 10x.75 | DWTSMR1-10X.75 | \$51.74 |

| Size | Part Number | List Price |
|---------|-----------------|------------|
| 10x1 | DWTSMR1-10X1 | \$51.74 |
| 10x1.75 | DWTSMR1-10X1.75 | \$51.74 |
| 11x.5 | DWTSMR1-11X.5 | \$51.74 |
| 11x.75 | DWTSMR1-11X.75 | \$51.74 |
| 11x1 | DWTSMR1-11X1 | \$51.74 |
| 11x1.25 | DWTSMR1-11X1.25 | \$51.74 |
| 11x1.5 | DWTSMR1-11X1.5 | \$51.74 |
| 11x1.75 | DWTSMR1-11X1.75 | \$51.74 |
| 12x.5 | DWTSMR1-12X.5 | \$51.74 |
| 12x.75 | DWTSMR1-12X.75 | \$51.74 |
| 12x1 | DWTSMR1-12X1 | \$51.74 |
| 12x1.5 | DWTSMR1-12X1.5 | \$51.74 |
| 12x2 | DWTSMR1-12X2 | \$51.74 |

1 - 1/2" OD DWT Series

| Size | Part Number | List Price |
|---------|-------------------|------------|
| 5x1 | DWTSMR112-5X1 | \$82.36 |
| 6x.75 | DWTSMR112-6X.75 | \$82.36 |
| 9x1 | DWTSMR112-9X1 | \$82.36 |
| 9x1.25 | DWTSMR112-9X1.25 | \$82.36 |
| 10x.75 | DWTSMR112-10X.75 | \$82.36 |
| 10x1 | DWTSMR112-10X1 | \$82.36 |
| 11x.75 | DWTSMR112-11X.75 | \$82.36 |
| 11x1 | DWTSMR112-11X1 | \$82.36 |
| 11x1.5 | DWTSMR112-11X1.5 | \$82.36 |
| 12x.75 | DWTSMR112-12X.75 | \$82.36 |
| 12x1 | DWTSMR112-12X1 | \$82.36 |
| 12x1.5 | DWTSMR112-12X1.5 | \$82.36 |
| 12x2 | DWTSMR112-12X2 | \$82.36 |
| 13x.5 | DWTSMR112-13X.5 | \$82.36 |
| 13x1 | DWTSMR112-13X1 | \$82.36 |
| 13x1.25 | DWTSMR112-13X1.25 | \$82.36 |
| 13x1.5 | DWTSMR112-13X1.5 | \$82.36 |
| 13x1.75 | DWTSMR112-13X1.75 | \$82.36 |
| 13x2 | DWTSMR112-13X2 | \$82.36 |

| Size | Part Number | List Price |
|---------|-------------------|------------|
| 14x.5 | DWTSMR112-14X.5 | \$82.36 |
| 14x.75 | DWTSMR112-14X.75 | \$82.36 |
| 14x1 | DWTSMR112-14X1 | \$82.36 |
| 14x1.75 | DWTSMR112-14X1.75 | \$82.36 |
| 15x.5 | DWTSMR112-15X.5 | \$82.36 |
| 15x.75 | DWTSMR112-15X.75 | \$82.36 |
| 15x1 | DWTSMR112-15X1 | \$82.36 |
| 15x1.25 | DWTSMR112-15X1.25 | \$82.36 |
| 15x1.5 | DWTSMR112-15X1.5 | \$82.36 |
| 15x1.75 | DWTSMR112-15X1.75 | \$82.36 |
| 15x2 | DWTSMR112-15X2 | \$82.36 |
| 16x.5 | DWTSMR112-16X.5 | \$82.36 |
| 16x.75 | DWTSMR112-16X.75 | \$82.36 |
| 16x1 | DWTSMR112-16X1 | \$82.36 |
| 16x1.75 | DWTSMR112-16X1.75 | \$82.36 |
| 16x2.5 | DWTSMR112-16X2.5 | \$82.36 |
| 17x.5 | DWTSMR112-17X.5 | \$82.36 |
| 17x1 | DWTSMR112-17X1 | \$82.36 |
| 17x1.5 | DWTSMR112-17X1.5 | \$82.36 |

| Size | Part Number | List Price |
|---------|-------------------|------------|
| 17x1.75 | DWTSMR112-17X1.75 | \$82.36 |
| 17x2 | DWTSMR112-17X2 | \$82.36 |
| 18x.5 | DWTSMR112-18X.5 | \$82.36 |
| 18x.75 | DWTSMR112-18X.75 | \$82.36 |
| 18x1 | DWTSMR112-18X1 | \$82.36 |
| 18x1.25 | DWTSMR112-18X1.25 | \$82.36 |
| 18x2 | DWTSMR112-18X2 | \$82.36 |
| 19x.5 | DWTSMR112-19X.5 | \$82.36 |
| 19x.75 | DWTSMR112-19X.75 | \$82.36 |
| 19x1 | DWTSMR112-19X1 | \$82.36 |
| 19x1.25 | DWTSMR112-19X1.25 | \$82.36 |
| 19x2 | DWTSMR112-19X2 | \$82.36 |
| 20x.5 | DWTSMR112-20X.5 | \$82.36 |
| 20x.75 | DWTSMR112-20X.75 | \$82.36 |
| 20x1 | DWTSMR112-20X1 | \$82.36 |
| 20x1.25 | DWTSMR112-20X1.25 | \$82.36 |
| 20x1.75 | DWTSMR112-20X1.75 | \$82.36 |
| 20x2 | DWTSMR112-20X2 | \$82.36 |

ROUND DIES

H S S M E T R I C S P E C I A L S I Z E S

2" OD DWT Series

| Size | Part Number | List Price |
|---------|-----------------|------------|
| 18x1 | DWTSMR2-18X1 | \$148.48 |
| 18x2 | DWTSMR2-18X2 | \$148.48 |
| 20x1 | DWTSMR2-20X1 | \$148.48 |
| 20x2 | DWTSMR2-20X2 | \$148.48 |
| 21x1.5 | DWTSMR2-21X1.5 | \$148.48 |
| 21x1.75 | DWTSMR2-21X1.75 | \$148.48 |
| 21x2 | DWTSMR2-21X2 | \$148.48 |
| 22x1.25 | DWTSMR2-22X1.25 | \$148.48 |
| 22x2 | DWTSMR2-22X2 | \$148.48 |
| 23x1 | DWTSMR2-23X1 | \$148.48 |
| 23x2 | DWTSMR2-23X2 | \$148.48 |

| Size | Part Number | List Price |
|--------|----------------|------------|
| 23x2.5 | DWTSMR2-23X2.5 | \$148.48 |
| 24x1 | DWTSMR2-24X1 | \$148.48 |
| 24x1.5 | DWTSMR2-24X1.5 | \$148.48 |
| 24x2.5 | DWTSMR2-24X2.5 | \$148.48 |
| 25x1 | DWTSMR2-25X1 | \$148.48 |
| 25x1.5 | DWTSMR2-25X1.5 | \$148.48 |
| 25x2.5 | DWTSMR2-25X2.5 | \$148.48 |
| 25x3 | DWTSMR2-25X3 | \$148.48 |
| 26x1 | DWTSMR2-26X1 | \$148.48 |
| 26x1.5 | DWTSMR2-26X1.5 | \$148.48 |
| 26x2 | DWTSMR2-26X2 | \$148.48 |

| Size | Part Number | List Price |
|---------|-----------------|------------|
| 26x2.5 | DWTSMR2-26X2.5 | \$148.48 |
| 26x3 | DWTSMR2-26X3 | \$148.48 |
| 27x1 | DWTSMR2-27X1 | \$148.48 |
| 27x1.25 | DWTSMR2-27X1.25 | \$148.48 |
| 27x1.5 | DWTSMR2-27X1.5 | \$148.48 |
| 27x2.5 | DWTSMR2-27X2.5 | \$148.48 |
| 28x2.5 | DWTSMR2-28X2.5 | \$148.48 |
| 30x1.5 | DWTSMR2-30X1.5 | \$148.48 |

2 - 1/2" OD DWT Series

| Size | Part Number | List Price |
|---------|-------------------|------------|
| 24x1.5 | DWTSMR212-24X1.5 | \$227.90 |
| 26x1 | DWTSMR212-26X1 | \$227.90 |
| 26x1.5 | DWTSMR212-26X1.5 | \$227.90 |
| 27x2.5 | DWTSMR212-27X2.5 | \$227.90 |
| 28x1.5 | DWTSMR212-28X1.5 | \$227.90 |
| 28x2 | DWTSMR212-28X2 | \$227.90 |
| 30x1 | DWTSMR212-30X1 | \$227.90 |
| 30x1.25 | DWTSMR212-30X1.25 | \$227.90 |

| Size | Part Number | List Price |
|--------|------------------|------------|
| 30x1.5 | DWTSMR212-30X1.5 | \$227.90 |
| 30x2.5 | DWTSMR212-30X2.5 | \$227.90 |
| 30x3 | DWTSMR212-30X3 | \$227.90 |
| 32x1.5 | DWTSMR212-32X1.5 | \$227.90 |
| 32x2.5 | DWTSMR212-32X2.5 | \$227.90 |
| 32x3 | DWTSMR212-32X3 | \$227.90 |
| 33x1 | DWTSMR212-33X1 | \$227.90 |
| 34x1.5 | DWTSMR212-34X1.5 | \$227.90 |

| Size | Part Number | List Price |
|--------|------------------|------------|
| 34x3 | DWTSMR212-34X3 | \$227.90 |
| 34x3.5 | DWTSMR212-34X3.5 | \$227.90 |
| 36x1.5 | DWTSMR212-36X1.5 | \$227.90 |
| 36x2 | DWTSMR212-36X2 | \$227.90 |
| 38x1.5 | DWTSMR212-38X1.5 | \$227.90 |
| 38x3 | DWTSMR212-38X3 | \$227.90 |
| 38x4 | DWTSMR212-38X4 | \$227.90 |

3" OD DWT Series

| Size | Part Number | List Price |
|--------|----------------|------------|
| 30x1.5 | DWTSMR3-30X1.5 | \$306.48 |
| 39x1.5 | DWTSMR3-39X1.5 | \$306.48 |
| 40x1.5 | DWTSMR3-40X1.5 | \$306.48 |
| 42x1.5 | DWTSMR3-42X1.5 | \$306.48 |
| 42x3 | DWTSMR3-42X3 | \$306.48 |
| 42x4.5 | DWTSMR3-42X4.5 | \$306.48 |

| Size | Part Number | List Price |
|--------|----------------|------------|
| 45x1.5 | DWTSMR3-45X1.5 | \$306.48 |
| 45x3 | DWTSMR3-45X3 | \$306.48 |
| 46x4.5 | DWTSMR3-46X4.5 | \$306.48 |
| 48x3 | DWTSMR3-48X3 | \$306.48 |
| 48x5 | DWTSMR3-48X5 | \$306.48 |



ROUND DIES

HSS LEFT HAND STANDARD SIZES

13/16" OD DWT Series

| Size | Part Number | List Price |
|----------|------------------|------------|
| 2-56 | DWTH1316-256LH | \$33.52 |
| 4-36 | DWTH1316-436LH | \$33.52 |
| 4-40 | DWTH1316-440LH | \$33.52 |
| 4-48 | DWTH1316-448LH | \$33.52 |
| 5-40 | DWTH1316-540LH | \$33.52 |
| 5-44 | DWTH1316-544LH | \$33.52 |
| 6-32 | DWTH1316-632LH | \$33.52 |
| 6-40 | DWTH1316-640LH | \$33.52 |
| 8-32 | DWTH1316-832LH | \$33.52 |
| 8-36 | DWTH1316-836LH | \$33.52 |
| 10-24 | DWTH1316-1024LH | \$33.52 |
| 10-32 | DWTH1316-1032LH | \$33.52 |
| 12-24 | DWTH1316-1224LH | \$33.52 |
| 12-28 | DWTH1316-1228LH | \$33.52 |
| 1/4"-20 | DWTH1316-1420LH | \$33.52 |
| 1/4"-28 | DWTH1316-1428LH | \$33.52 |
| 5/16"-18 | DWTH1316-51618LH | \$33.52 |
| 5/16"-24 | DWTH1316-51624LH | \$33.52 |

1" OD DWT Series

| Size | Part Number | List Price |
|----------|---------------|------------|
| 5-44 | DWTH1-544LH | \$38.46 |
| 6-32 | DWTH1-632LH | \$38.46 |
| 6-40 | DWTH1-640LH | \$38.46 |
| 8-32 | DWTH1-832LH | \$38.46 |
| 8-36 | DWTH1-836LH | \$38.46 |
| 10-24 | DWTH1-1024LH | \$38.46 |
| 10-32 | DWTH1-1032LH | \$38.46 |
| 12-24 | DWTH1-1224LH | \$38.46 |
| 12-28 | DWTH1-1228LH | \$38.46 |
| 1/4"-20 | DWTH1-1420LH | \$38.46 |
| 1/4"-28 | DWTH1-1428LH | \$38.46 |
| 5/16"-18 | DWTH1-51618LH | \$38.46 |
| 5/16"-24 | DWTH1-51624LH | \$38.46 |
| 3/8"-16 | DWTH1-3816LH | \$38.46 |
| 3/8"-24 | DWTH1-3824LH | \$38.46 |
| 7/16"-14 | DWTH1-71614LH | \$38.46 |
| 7/16"-20 | DWTH1-71620LH | \$38.46 |
| 1/2"-13 | DWTH1-1213LH | \$38.46 |
| 1/2"-20 | DWTH1-1220LH | \$38.46 |

1 - 1/2" OD DWT Series

| Size | Part Number | List Price |
|-----------|------------------|------------|
| 1/4"-20 | DWTH112-1420LH | \$59.93 |
| 1/4"-28 | DWTH112-1428LH | \$59.93 |
| 5/16"-18 | DWTH112-51618LH | \$59.93 |
| 5/16"-24 | DWTH112-51624LH | \$59.93 |
| 3/8"-16 | DWTH112-3816LH | \$59.93 |
| 3/8"-24 | DWTH112-3824LH | \$59.93 |
| 7/16"-14 | DWTH112-71614LH | \$59.93 |
| 7/16"-20 | DWTH112-71620LH | \$59.93 |
| 1/2"-13 | DWTH112-1213LH | \$59.93 |
| 1/2"-20 | DWTH112-1220LH | \$59.93 |
| 9/16"-12 | DWTH112-91612LH | \$59.93 |
| 9/16"-18 | DWTH112-91618LH | \$59.93 |
| 5/8"-11 | DWTH112-5811LH | \$59.93 |
| 5/8"-18 | DWTH112-5818LH | \$59.93 |
| 11/16"-11 | DWTH112-111611LH | \$59.93 |
| 11/16"-16 | DWTH112-111616LH | \$59.93 |
| 3/4"-10 | DWTH112-3410LH | \$59.93 |
| 3/4"-16 | DWTH112-3416LH | \$59.93 |

2" OD DWT Series

| Size | Part Number | List Price |
|----------|---------------|------------|
| 9/16"-12 | DWTH2-91612LH | \$128.18 |
| 9/16"-18 | DWTH2-91618LH | \$128.18 |
| 5/8"-11 | DWTH2-5811LH | \$128.18 |
| 5/8"-18 | DWTH2-5818LH | \$128.18 |
| 3/4"-10 | DWTH2-3410LH | \$128.18 |
| 3/4"-16 | DWTH2-3416LH | \$128.18 |
| 7/8"-9 | DWTH2-789LH | \$128.18 |
| 7/8"-14 | DWTH2-7814LH | \$128.18 |
| 1"-8 | DWTH2-18LH | \$128.18 |
| 1"-12 | DWTH2-112LH | \$128.18 |
| 1"-14 | DWTH2-114LH | \$128.18 |

2 - 1/2" OD DWT Series

| Size | Part Number | List Price |
|-----------|-----------------|------------|
| 1-1/8"-7 | DWTH212-1187LH | \$153.81 |
| 1-1/8"-12 | DWTH212-11812LH | \$153.81 |
| 1-1/4"-7 | DWTH212-1147LH | \$153.81 |
| 1-1/4"-12 | DWTH212-11412LH | \$153.81 |
| 1-3/8"-6 | DWTH212-1386LH | \$153.81 |
| 1-3/8"-12 | DWTH212-13812LH | \$153.81 |
| 1-1/2"-6 | DWTH212-1126LH | \$153.81 |
| 1-1/2"-12 | DWTH212-11212LH | \$153.81 |



ROUND DIES

HSS NPT THREAD SIZES

| 1" OD DWT Series | | |
|------------------|--------------|------------|
| Size | Part Number | List Price |
| 1/16"NPT | DWTH1-116NPT | \$25.29 |
| 1/8"NPT | DWTH1-18NPT | \$25.29 |

| 1 - 1/2" OD DWT Series | | |
|------------------------|---------------|------------|
| Size | Part Number | List Price |
| 1/8"NPT | DWTH112-18NPT | \$40.68 |
| 1/4"NPT | DWTH112-14NPT | \$40.68 |
| 3/8"NPT | DWTH112-38NPT | \$40.68 |
| 1/2"NPT | DWTH112-12NPT | \$40.68 |

| 2" OD DWT Series | | |
|------------------|-------------|------------|
| Size | Part Number | List Price |
| 3/8"NPT | DWTH2-38NPT | \$74.16 |
| 1/2"NPT | DWTH2-12NPT | \$74.16 |
| 3/4"NPT | DWTH2-34NPT | \$74.16 |

| 2 - 1/2" OD DWT Series | | |
|------------------------|---------------|------------|
| Size | Part Number | List Price |
| 3/4"NPT | DWTH212-34NPT | \$104.56 |
| 1"NPT | DWTH212-1NPT | \$104.56 |

| 3" OD DWT Series | | |
|------------------|--------------|------------|
| Size | Part Number | List Price |
| 1-1/4"NPT | DWTH3-114NPT | \$176.98 |
| 1-1/2"NPT | DWTH3-112NPT | \$176.98 |



HSS NPS THREAD SIZES

| 1" OD DWT Series | | |
|------------------|--------------|------------|
| Size | Part Number | List Price |
| 1/16"NPS | DWTH1-116NPS | \$29.10 |
| 1/8"NPS | DWTH1-18NPS | \$29.10 |

| 1 - 1/2" OD DWT Series | | |
|------------------------|---------------|------------|
| Size | Part Number | List Price |
| 1/8"NPS | DWTH112-18NPS | \$44.11 |
| 1/4"NPS | DWTH112-14NPS | \$44.11 |
| 3/8"NPS | DWTH112-38NPS | \$44.11 |
| 1/2"NPS | DWTH112-12NPS | \$44.11 |

| 2" OD DWT Series | | |
|------------------|-------------|------------|
| Size | Part Number | List Price |
| 3/8"NPS | DWTH2-38NPS | \$89.92 |
| 1/2"NPS | DWTH2-12NPS | \$89.92 |
| 3/4"NPS | DWTH2-34NPS | \$89.92 |

| 2 - 1/2" OD DWT Series | | |
|------------------------|---------------|------------|
| Size | Part Number | List Price |
| 3/4"NPS | DWTH212-34NPS | \$110.66 |
| 1"NPS | DWTH212-1NPS | \$110.66 |

| 3" OD DWT Series | | |
|------------------|--------------|------------|
| Size | Part Number | List Price |
| 1-1/4"NPS | DWTH3-114NPS | \$185.96 |
| 1-1/2"NPS | DWTH3-112NPS | \$185.96 |

| DWT Series | | |
|------------|-------------|------------|
| Size | Part Number | List Price |
| 5/8" | DWTDS5/8 | \$11.17 |
| 13/16" | DWTDS13/16 | \$11.17 |
| 1" | DWTDS1INCH | \$13.15 |
| 1-1/2" | DWTDS1-1/2 | \$18.77 |
| 2" | DWTDS2INCH | \$25.84 |
| 2-1/2" | DWTDS2-1/2 | \$51.69 |
| 3" | DWTDS3INCH | \$75.47 |

DIE STOCKS



CARBIDE TIPPED HOLE CUTTERS

DMS Series - 3/16" Depth of Cut

CTH Series - 1" Depth of Cut

Carbide Tipped Hole Cutters provide an easy and efficient way to drill larger diameter holes without requiring large drill bits and extra large chucks.

*3PC SET (7/8", 1-1/8" and 1-3/8") *6PC SET (5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2", 2 Pilot Drills and Allen Keys)

*8 PC DMS SET (7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2", Pilot Drill, Hex Key) *8 PC CTH SET (5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2", 1-3/4", 2", 2 Pilot Drills and Allen Keys) *8mm Pilot - CTH sizes 2-3/8"

| DMS Series | | | CTH Series | | | |
|------------|-------------|-------|------------|--------------|-------|------------|
| Size | Part Number | Shank | List Price | Part Number | Shank | List Price |
| 9/16" | -- | -- | -- | CTH0562 | 1/2" | \$61.89 |
| 5/8" | DMS04-8016 | 7/16" | \$51.57 | CTH0625 | 1/2" | \$61.89 |
| 11/16" | DMS04-8017 | 7/16" | \$51.57 | CTH0687 | 1/2" | \$61.89 |
| 3/4" | DMS04-8019 | 7/16" | \$51.57 | CTH0750 | 1/2" | \$61.89 |
| 13/16" | DMS04-8021 | 7/16" | \$53.80 | CTH0812 | 1/2" | \$64.56 |
| 7/8" | DMS04-8022 | 7/16" | \$53.80 | CTH0875 | 1/2" | \$64.56 |
| 15/16" | DMS04-8024 | 7/16" | \$62.43 | CTH0937 | 1/2" | \$74.92 |
| 1" | DMS04-8025 | 7/16" | \$62.43 | CTH1000 | 1/2" | \$74.92 |
| 1-1/16" | DMS04-8027 | 7/16" | \$69.40 | CTH1062 | 1/2" | \$83.28 |
| 1-1/8" | DMS04-8028 | 7/16" | \$69.40 | CTH1125 | 1/2" | \$83.28 |
| 1-3/16" | DMS04-8030 | 7/16" | \$72.19 | CTH1187 | 1/2" | \$86.63 |
| 1-1/4" | DMS04-8032 | 7/16" | \$72.19 | CTH1250 | 1/2" | \$86.63 |
| 1-5/16" | DMS04-8033 | 7/16" | \$83.18 | CTH1312 | 1/2" | \$99.82 |
| 1-3/8" | DMS04-8035 | 7/16" | \$83.18 | CTH1375 | 1/2" | \$99.82 |
| 1-7/16" | DMS04-8037 | 7/16" | \$91.98 | CTH1437 | 1/2" | \$110.37 |
| 1-1/2" | DMS04-8038 | 7/16" | \$91.98 | CTH1500 | 1/2" | \$110.37 |
| 1-9/16" | DMS04-8040 | 7/16" | \$100.34 | CTH1562 | 1/2" | \$120.42 |
| 1-5/8" | DMS04-8041 | 7/16" | \$100.34 | CTH1625 | 1/2" | \$120.42 |
| 1-11/16" | DMS04-8043 | 7/16" | \$100.34 | CTH1687 | 1/2" | \$120.42 |
| 1-3/4" | DMS04-8044 | 7/16" | \$100.34 | CTH1750 | 1/2" | \$120.42 |
| 1-13/16" | DMS04-8046 | 7/16" | \$103.96 | CTH1812 | 1/2" | \$124.75 |
| 1-7/8" | DMS04-8048 | 7/16" | \$103.96 | CTH1875 | 1/2" | \$124.75 |
| 1-15/16" | DMS04-8050 | 7/16" | \$103.96 | CTH1937 | 1/2" | \$124.75 |
| 2" | DMS04-8051 | 7/16" | \$103.96 | CTH2000 | 1/2" | \$124.75 |
| 2-1/16" | DMS04-8052 | 7/16" | \$105.93 | CTH2062 | 1/2" | \$127.12 |
| 2-1/8" | DMS04-8054 | 7/16" | \$105.93 | CTH2125 | 1/2" | \$127.12 |
| 2-3/16" | DMS04-8055 | 7/16" | \$115.96 | CTH2187 | 1/2" | \$139.14 |
| 2-1/4" | DMS04-8057 | 7/16" | \$115.96 | CTH2250 | 1/2" | \$139.14 |
| 2-5/16" | DMS04-8059 | 1/2" | \$120.42 | CTH2312 | 1/2" | \$144.50 |
| 2-3/8" | DMS04-8060 | 1/2" | \$120.42 | CTH2375 | 1/2" | \$144.50 |
| 2-7/16" | DMS04-8062 | 1/2" | \$126.01 | CTH2437 | 1/2" | \$151.21 |
| 2-1/2" | DMS04-8064 | 1/2" | \$126.01 | CTH2500 | 1/2" | \$151.21 |
| 2-9/16" | DMS04-8065 | 1/2" | \$136.59 | CTH2562 | 1/2" | \$163.90 |
| 2-5/8" | DMS04-8067 | 1/2" | \$136.59 | CTH2625 | 1/2" | \$163.90 |
| 2-11/16" | DMS04-8068 | 1/2" | \$144.94 | CTH2687 | 1/2" | \$173.93 |
| 2-3/4" | DMS04-8070 | 1/2" | \$144.94 | CTH2750 | 1/2" | \$173.93 |
| 2-13/16" | DMS04-8071 | 1/2" | \$157.20 | CTH2812 | 1/2" | \$188.64 |
| 2-7/8" | DMS04-8073 | 1/2" | \$157.20 | CTH2875 | 1/2" | \$188.64 |
| 2-15/16" | DMS04-8075 | 1/2" | \$157.20 | CTH2937 | 1/2" | \$188.64 |
| 3" | DMS04-8076 | 1/2" | \$157.20 | CTH3000 | 1/2" | \$188.64 |
| 3-1/16" | -- | -- | -- | CTH3062 | 1/2" | \$188.64 |
| 3-1/8" | -- | -- | -- | CTH3125 | 1/2" | \$188.64 |
| 3-3/16" | -- | -- | -- | CTH3187 | 1/2" | \$208.52 |
| 3-1/4" | -- | -- | -- | CTH3250 | 1/2" | \$208.52 |
| 3-5/16" | -- | -- | -- | CTH3312 | 1/2" | \$208.52 |
| 3-3/8" | -- | -- | -- | CTH3375 | 1/2" | \$218.45 |
| 3-7/16" | -- | -- | -- | CTH3437 | 1/2" | \$218.45 |
| 3-1/2" | -- | -- | -- | CTH3500 | 1/2" | \$218.45 |
| 3-9/16" | -- | -- | -- | CTH3562 | 1/2" | \$218.45 |
| 3-5/8" | -- | -- | -- | CTH3625 | 1/2" | \$229.18 |
| 3-11/16" | -- | -- | -- | CTH3687 | 1/2" | \$229.18 |
| 3-3/4" | -- | -- | -- | CTH3750 | 1/2" | \$229.18 |
| 3-13/16" | -- | -- | -- | CTH3812 | 1/2" | \$235.14 |
| 3-7/8" | -- | -- | -- | CTH3875 | 1/2" | \$235.14 |
| 3-15/16" | -- | -- | -- | CTH3937 | 1/2" | \$235.14 |
| 4" | -- | -- | -- | CTH4000 | 1/2" | \$265.49 |
| 4-1/16" | -- | -- | -- | CTH4062 | 1/2" | \$343.68 |
| 4-1/8" | -- | -- | -- | CTH4125 | 1/2" | \$343.68 |
| 4-3/16" | -- | -- | -- | CTH4187 | 1/2" | \$392.16 |
| 4-1/4" | -- | -- | -- | CTH4250 | 1/2" | \$392.16 |
| 4-5/16" | -- | -- | -- | CTH4312 | 1/2" | \$392.16 |
| 4-3/8" | -- | -- | -- | CTH4375 | 1/2" | \$414.87 |
| 4-7/16" | -- | -- | -- | CTH4437 | 1/2" | \$414.87 |
| 4-1/2" | -- | -- | -- | CTH4500 | 1/2" | \$414.87 |
| 4-9/16" | -- | -- | -- | CTH4562 | 1/2" | \$442.30 |
| 4-5/8" | -- | -- | -- | CTH4625 | 1/2" | \$442.30 |
| 4-11/16" | -- | -- | -- | CTH4687 | 1/2" | \$442.30 |
| *3 PC SET | DMS04-8204 | -- | \$250.87 | -- | -- | -- |
| *6 PC SET | DMS04-8206 | -- | \$374.50 | -- | -- | -- |
| *8 PC SET | DMS04-8208 | -- | \$585.34 | CTH5000 | 1/2" | \$695.50 |
| 6MM PILOT | DMS04-PILOT | -- | \$5.35 | CTH6MM-PILOT | -- | \$6.37 |
| *8MM PILOT | -- | -- | -- | CTH8MM-PILOT | -- | \$8.35 |



ANNULAR CUTTERS

DWC Series - HSS Annular cutters

Designed for fast, efficient hole making. Universal cutters cut only that material necessary to produce a quality hole. Pilot pin included with each cutter. *Sets include sizes: 9/16", 11/16", 13/16", 15/16" and 1-1/16".

| | 1" DOC | | 2" DOC | | 3" DOC | |
|----------|--------------|------------|--------------|------------|--------------|------------|
| Size | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 7/16" | DWC5-530-110 | \$48.62 | DWC5-530-210 | \$65.39 | - | - |
| 1/2" | DWC5-530-111 | \$50.52 | DWC5-530-211 | \$66.45 | - | - |
| 9/16" | DWC5-530-113 | \$51.17 | DWC5-530-213 | \$71.55 | - | - |
| 5/8" | DWC5-530-116 | \$53.07 | DWC5-530-216 | \$77.91 | - | - |
| 11/16" | DWC5-530-119 | \$59.23 | DWC5-530-219 | \$82.37 | - | - |
| 3/4" | DWC5-530-121 | \$65.17 | DWC5-530-221 | \$87.69 | - | - |
| 13/16" | DWC5-530-124 | \$67.52 | DWC5-530-224 | \$94.48 | DWC5-530-324 | \$193.88 |
| 7/8" | DWC5-530-127 | \$71.34 | DWC5-530-227 | \$102.34 | DWC5-530-327 | \$199.50 |
| 15/16" | DWC5-530-130 | \$74.95 | DWC5-530-230 | \$107.64 | DWC5-530-330 | \$205.35 |
| 1" | DWC5-530-133 | \$79.41 | DWC5-530-233 | \$114.01 | DWC5-530-333 | \$214.01 |
| 1-1/16" | DWC5-530-136 | \$85.99 | DWC5-530-236 | \$126.75 | DWC5-530-336 | \$197.45 |
| 1-1/8" | DWC5-530-139 | \$90.87 | DWC5-530-239 | \$135.46 | DWC5-530-339 | \$257.32 |
| 1-3/16" | DWC5-530-142 | \$91.51 | DWC5-530-242 | \$140.56 | DWC5-530-342 | \$265.43 |
| 1-1/4" | DWC5-530-145 | \$95.54 | DWC5-530-245 | \$145.85 | DWC5-530-345 | \$272.60 |
| 1-5/16" | DWC5-530-148 | \$101.70 | DWC5-530-248 | \$153.71 | DWC5-530-348 | \$286.62 |
| 1-3/8" | DWC5-530-151 | \$131.41 | DWC5-530-251 | \$161.78 | DWC5-530-351 | \$301.91 |
| 1-7/16" | DWC5-530-154 | \$145.65 | DWC5-530-254 | \$222.79 | DWC5-530-354 | \$331.20 |
| 1-1/2" | DWC5-530-157 | \$155.41 | DWC5-530-257 | \$193.63 | DWC5-530-357 | \$365.60 |
| 1-9/16" | DWC5-530-160 | \$173.03 | DWC5-530-260 | \$217.62 | DWC5-530-360 | \$405.09 |
| 1-5/8" | DWC5-530-163 | \$185.14 | DWC5-530-263 | \$228.23 | DWC5-530-363 | \$428.02 |
| 1-11/16" | DWC5-530-166 | \$211.46 | DWC5-530-266 | \$261.15 | DWC5-530-366 | \$443.30 |
| 1-3/4" | DWC5-530-169 | \$209.12 | DWC5-530-269 | \$253.70 | DWC5-530-369 | \$476.42 |
| 1-13/16" | DWC5-530-172 | \$277.70 | DWC5-530-272 | \$328.65 | DWC5-530-372 | \$527.38 |
| 1-7/8" | DWC5-530-175 | \$247.34 | DWC5-530-275 | \$336.30 | DWC5-530-375 | \$550.31 |
| 1-15/16" | DWC5-530-178 | \$261.15 | DWC5-530-278 | \$351.58 | DWC5-530-378 | \$575.78 |
| 2" | DWC5-530-181 | \$280.25 | DWC5-530-281 | \$306.79 | DWC5-530-381 | \$593.62 |
| 2-1/16" | DWC5-530-183 | \$375.79 | DWC5-530-283 | \$440.75 | DWC5-530-383 | \$741.38 |
| Pilot | DWC5-530-905 | \$11.04 | DWC5-530-915 | \$440.75 | DWC5-530-925 | \$14.02 |
| *Set | DWC5-530-501 | \$339.20 | DWC5-530-502 | \$477.00 | - | - |



C A R B I D E T I P P E D

CTC Series - Carbide Tipped Annular cutters

| | 1-3/8" DOC | | 2" DOC | | 3" DOC | |
|---------|--------------|------------|--------------|------------|--------------|------------|
| Size | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 1/2" | CTC5-530-111 | \$90.95 | - | - | - | - |
| 9/16" | CTC5-530-113 | \$90.95 | CTC5-530-213 | \$105.27 | - | - |
| 5/8" | CTC5-530-116 | \$90.95 | CTC5-530-216 | \$105.27 | - | - |
| 11/16" | CTC5-530-119 | \$90.95 | CTC5-530-219 | \$105.27 | - | - |
| 3/4" | CTC5-530-121 | \$90.95 | CTC5-530-221 | \$105.27 | CTC5-530-321 | \$224.49 |
| 13/16" | CTC5-530-124 | \$94.89 | CTC5-530-224 | \$115.20 | CTC5-530-324 | \$224.49 |
| 7/8" | CTC5-530-127 | \$94.89 | CTC5-530-227 | \$121.73 | CTC5-530-327 | \$231.00 |
| 15/16" | CTC5-530-130 | \$94.89 | CTC5-530-230 | \$124.63 | CTC5-530-330 | \$237.77 |
| 1" | CTC5-530-133 | \$109.84 | CTC5-530-233 | \$132.01 | CTC5-530-333 | \$247.80 |
| 1-1/16" | CTC5-530-136 | \$109.82 | CTC5-530-236 | \$146.77 | CTC5-530-336 | \$228.63 |
| 1-1/8" | CTC5-530-139 | \$114.42 | CTC5-530-239 | \$156.85 | CTC5-530-339 | \$297.94 |
| 1-3/16" | CTC5-530-142 | \$137.33 | CTC5-530-242 | \$162.75 | CTC5-530-342 | \$307.34 |
| 1-1/4" | CTC5-530-145 | \$137.33 | CTC5-530-245 | \$168.88 | CTC5-530-345 | \$315.65 |
| 1-5/16" | CTC5-530-148 | \$137.33 | CTC5-530-248 | \$177.97 | CTC5-530-348 | \$331.88 |
| 1-3/8" | CTC5-530-151 | \$157.47 | CTC5-530-251 | \$187.33 | CTC5-530-351 | \$349.58 |
| 1-1/2" | CTC5-530-157 | \$188.98 | CTC5-530-257 | \$224.19 | CTC5-530-357 | \$423.33 |
| 1-5/8" | CTC5-530-163 | \$229.60 | CTC5-530-263 | \$264.26 | CTC5-530-363 | \$495.59 |
| 1-3/4" | CTC5-530-169 | \$258.96 | CTC5-530-269 | \$293.76 | CTC5-530-369 | \$551.65 |
| 2" | CTC5-530-181 | \$345.67 | CTC5-530-281 | \$355.23 | CTC5-530-381 | \$687.35 |
| Pilot | CTC5-530-905 | \$13.25 | CTC5-530-915 | \$13.25 | CTC5-530-925 | \$14.76 |



HSS nACo NANO-COMPOSITE COATED BLUE ANNULAR CUTTERS WITH PILOT PIN

ANC Series - nACo Annular Cutters

Drill America ANC Series Annular Cutters are for use with hard materials including steel, cast iron, heated and stainless steels. nACo Nano Coating permits better performance and longevity providing extra protection against oxidation, high heat and tool wear. This micro-thin coating helps keep the tool's sharpness, edge and lubricity. These cutters are made of M2 High Speed Steel, have a 3/4" Weldon Shank for use with most magnetic drill presses and come with a pilot pin. Sets include sizes: 9/16", 11/16", 13/16", 15/16" and 1-1/16".

| Size | 1" DOC | | 2" DOC | | 3" DOC | |
|----------|--------------|------------|--------------|------------|--------------|------------|
| | Part Number | List Price | Part Number | List Price | Part Number | List Price |
| 7/16" | ANC5-530-110 | \$55.92 | ANC5-530-210 | \$75.20 | - | - |
| 1/2" | ANC5-530-111 | \$58.10 | ANC5-530-211 | \$76.42 | - | - |
| 9/16" | ANC5-530-113 | \$58.84 | ANC5-530-213 | \$82.29 | - | - |
| 5/8" | ANC5-530-116 | \$61.03 | ANC5-530-216 | \$89.60 | - | - |
| 11/16" | ANC5-530-119 | \$68.12 | ANC5-530-219 | \$94.73 | - | - |
| 3/4" | ANC5-530-121 | \$74.94 | ANC5-530-221 | \$100.84 | - | - |
| 13/16" | ANC5-530-124 | \$77.66 | ANC5-530-224 | \$108.65 | ANC5-530-324 | \$222.96 |
| 7/8" | ANC5-530-127 | \$82.04 | ANC5-530-227 | \$117.69 | ANC5-530-327 | \$229.42 |
| 15/16" | ANC5-530-130 | \$86.20 | ANC5-530-230 | \$123.79 | ANC5-530-330 | \$236.15 |
| 1" | ANC5-530-133 | \$91.33 | ANC5-530-233 | \$131.11 | ANC5-530-333 | \$246.10 |
| 1-1/16" | ANC5-530-136 | \$98.89 | ANC5-530-236 | \$145.77 | ANC5-530-336 | \$227.07 |
| 1-1/8" | ANC5-530-139 | \$104.51 | ANC5-530-239 | \$155.78 | ANC5-530-339 | \$295.91 |
| 1-3/16" | ANC5-530-142 | \$105.24 | ANC5-530-242 | \$161.64 | ANC5-530-342 | \$305.24 |
| 1-1/4" | ANC5-530-145 | \$109.88 | ANC5-530-245 | \$167.73 | ANC5-530-345 | \$313.50 |
| 1-5/16" | ANC5-530-148 | \$116.95 | ANC5-530-248 | \$176.77 | ANC5-530-348 | \$329.62 |
| 1-3/8" | ANC5-530-151 | \$151.13 | ANC5-530-251 | \$186.05 | ANC5-530-351 | \$347.19 |
| 1-7/16" | ANC5-530-154 | \$167.50 | ANC5-530-254 | \$256.21 | ANC5-530-354 | \$380.89 |
| 1-1/2" | ANC5-530-157 | \$178.72 | ANC5-530-257 | \$222.67 | ANC5-530-357 | \$420.45 |
| 1-9/16" | ANC5-530-160 | \$198.99 | ANC5-530-260 | \$250.27 | ANC5-530-360 | \$465.85 |
| 1-5/8" | ANC5-530-163 | \$212.91 | ANC5-530-263 | \$262.47 | ANC5-530-363 | \$492.22 |
| 1-11/16" | ANC5-530-166 | \$243.17 | ANC5-530-266 | \$300.31 | ANC5-530-366 | \$509.80 |
| 1-3/4" | ANC5-530-169 | \$240.49 | ANC5-530-269 | \$291.75 | ANC5-530-369 | \$547.88 |
| 1-13/16" | ANC5-530-172 | \$319.36 | ANC5-530-272 | \$377.95 | ANC5-530-372 | \$606.48 |
| 1-7/8" | ANC5-530-175 | \$284.44 | ANC5-530-275 | \$386.74 | ANC5-530-375 | \$632.85 |
| 1-15/16" | ANC5-530-178 | \$300.31 | ANC5-530-278 | \$404.32 | ANC5-530-378 | \$662.15 |
| 2" | ANC5-530-181 | \$322.29 | ANC5-530-281 | \$352.81 | ANC5-530-381 | \$682.66 |
| 2-1/16" | ANC5-530-183 | \$432.16 | ANC5-530-283 | \$506.87 | ANC5-530-383 | \$852.59 |
| *Set | ANC5-530-501 | \$390.08 | ANC5-530-502 | \$548.55 | - | - |



HOLE SAWS

BI-METAL HOLE SAWS

DMS Series

Variable pitch teeth allow for cutting thru any wood, metal or plastic. Can be used in a wide variety of applications.

| DMS Series | | | | DMS Series | | | |
|------------|---------|-------------|------------|------------|---------|-------------|------------|
| Size | Size MM | Part Number | List Price | Size | Size MM | Part Number | List Price |
| 9/16" | 14 | DMS04-1014 | \$10.72 | 2-5/16" | 59 | DMS04-1059 | \$20.62 |
| 5/8" | 16 | DMS04-1016 | \$10.72 | 2-3/8" | 60 | DMS04-1060 | \$20.62 |
| 11/16" | 17 | DMS04-1017 | \$10.72 | 2-1/2" | 64 | DMS04-1064 | \$20.62 |
| 3/4" | 19 | DMS04-1019 | \$10.72 | 2-9/16" | 65 | DMS04-1065 | \$21.02 |
| 13/16" | 21 | DMS04-1021 | \$10.72 | 2-5/8" | 67 | DMS04-1067 | \$21.02 |
| 7/8" | 22 | DMS04-1022 | \$10.72 | 2-3/4" | 70 | DMS04-1070 | \$22.10 |
| 15/16" | 24 | DMS04-1024 | \$10.72 | 2-7/8" | 73 | DMS04-1073 | \$23.81 |
| 1" | 25 | DMS04-1025 | \$10.72 | 3" | 76 | DMS04-1076 | \$23.81 |
| 1-1/16" | 27 | DMS04-1027 | \$12.00 | 3-1/8" | 79 | DMS04-1079 | \$27.32 |
| 1-1/8" | 28 | DMS04-1028 | \$12.00 | 3-1/4" | 83 | DMS04-1083 | \$28.68 |
| 1-3/16" | 30 | DMS04-1030 | \$12.00 | 3-3/8" | 86 | DMS04-1086 | \$29.76 |
| 1-1/4" | 32 | DMS04-1032 | \$12.18 | 3-1/2" | 89 | DMS04-1089 | \$30.24 |
| 1-5/16" | 33 | DMS04-1033 | \$12.18 | 3-5/8" | 92 | DMS04-1092 | \$30.44 |
| 1-3/8" | 35 | DMS04-1035 | \$13.05 | 3-3/4" | 95 | DMS04-1095 | \$32.15 |
| 1-7/16" | 37 | DMS04-1037 | \$13.05 | 3-7/8" | 98 | DMS04-1098 | \$35.01 |
| 1-1/2" | 38 | DMS04-1038 | \$13.05 | 4" | 102 | DMS04-1102 | \$35.50 |
| 1-9/16" | 40 | DMS04-1040 | \$13.05 | 4-1/8" | 105 | DMS04-1105 | \$37.21 |
| 1-5/8" | 41 | DMS04-1041 | \$13.05 | 4-1/4" | 108 | DMS04-1108 | \$38.51 |
| 1-11/16" | 43 | DMS04-1043 | \$13.05 | 4-3/8" | 111 | DMS04-1111 | \$40.48 |
| 1-3/4" | 44 | DMS04-1044 | \$16.09 | 4-1/2" | 114 | DMS04-1114 | \$43.34 |
| 1-13/16" | 46 | DMS04-1046 | \$16.09 | 4-3/4" | 121 | DMS04-1121 | \$48.15 |
| 1-7/8" | 48 | DMS04-1048 | \$16.09 | 5" | 127 | DMS04-1127 | \$52.50 |
| 2" | 51 | DMS04-1051 | \$16.09 | 5-1/4" | 133 | DMS04-1133 | \$60.42 |
| 2-1/16" | 52 | DMS04-1052 | \$18.84 | 5-1/2" | 140 | DMS04-1140 | \$61.25 |
| 2-1/8" | 54 | DMS04-1054 | \$18.84 | 5-3/4" | 146 | DMS04-1146 | \$67.74 |
| 2-1/4" | 57 | DMS04-1057 | \$19.46 | 6" | 152 | DMS04-1152 | \$74.41 |



ARBORS & PILOTS

DMS Series

| Shank Size | Description | Part Number | List Price |
|------------|---|-------------|------------|
| 7/16" | Hex Shank Arbor, Fits 1-1/4"-6 | DMS04-9002 | \$31.93 |
| 3/8" | Hex Shank Quick Lock Arbor, Fits 1-1/4"-6 | DMS04-9004 | \$27.08 |
| 1/4" | Round Shank Arbor, Fits 9/16"-1-1/8" | DMS04-9005 | \$14.11 |
| 3/8" | Hex Shank Arbor, Fits 9/16"-1-1/8" | DMS04-9006 | \$14.11 |
| 7/16" | Hex Shank Arbor, Fits 9/16"-1-1/8" | DMS04-9007 | \$14.59 |
| 1/4" | 4-1/2" O.A.L. Standard Pilot Bit | DMS04-9014 | \$3.57 |
| 1/4" | 3-1/2" O.A.L. Standard Pilot Bit | DMS04-9015 | \$3.57 |



KITS

DMS Series

| No. of Pieces | No. of Hole Saws | Range | No. of Arbors | No. of Pilots | Part Number | List Price |
|---------------|------------------|-------------|---------------|---------------|-------------|------------|
| 9 | 6 | 7/8"-2-1/2" | 2 | 1 | DMS04-9108 | \$117.27 |
| 14 | 11 | 3/4"-3" | 2 | 1 | DMS04-9114 | \$186.37 |
| 16 | 11 | 7/8"-4-1/2" | 3 | 1 | DMS04-9115 | \$253.87 |
| 9 | 6 | 3/4"-2-1/4" | 2 | 1 | DMS04-9308 | \$111.07 |

Hole Saw sizes included in Kit

ELECTRICIANS KIT 04-9108

7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2"

MASTER ELECTRICIAN KIT 04-9115

7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/2", 3", 3-5/8", 4-1/8", 4-1/2"

INDUSTRIAL KIT 04-9114

3/4", 7/8", 1", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2", 3"

PLUMBERS KIT 04-9308

3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/4"



COUNTERBORES

DEWCBR Series - HSS

Counterboring is the enlargement of a portion of a hole that has previously been formed. If the counterbored portion is shallow (1/8" or less), the operation is usually known as spot-facing; for example, a flat seat for a bolt head or nut. If, on the other hand, the hole is enlarged to a considerable depth, it is designated as counterboring. These counterbores are made of two-piece construction, having an integral shank and counterbore-cutter, and a pilot that is interchangeable, which provides flexibility in the use of the tool.

STRAIGHT SHANK

DEW Series



| Size | Shank Size | Pilot Hole | O.A.L. | Part Number | List Price |
|--------|------------|------------|----------|-------------|------------|
| 3/16" | 15/64" | 3/32" | 3" | DEWCBR3/16 | \$39.16 |
| 13/64" | 15/64" | 3/32" | 3" | DEWCBR13/64 | \$44.93 |
| 7/32" | 15/64" | 3/32" | 3" | DEWCBR7/32 | \$39.16 |
| 15/64" | 15/64" | 3/32" | 3" | DEWCBR15/64 | \$44.93 |
| 1/4" | 15/64" | 3/32" | 3-13/16" | DEWCBR1/4 | \$42.18 |
| 17/64" | 17/64" | 3/32" | 3-13/16" | DEWCBR17/64 | \$44.93 |
| 9/32" | 17/64" | 3/32" | 3-13/16" | DEWCBR9/32 | \$42.18 |
| 19/64" | 17/64" | 3/32" | 3-13/16" | DEWCBR19/64 | \$46.74 |
| 5/16" | 19/64" | 3/32" | 3-13/16" | DEWCBR5/16 | \$43.20 |
| 21/64" | 5/16" | 3/32" | 3-13/16" | DEWCBR21/64 | \$48.35 |
| 11/32" | 5/16" | 3/32" | 3-13/16" | DEWCBR11/32 | \$44.28 |
| 23/64" | 5/16" | 3/32" | 4-1/16" | DEWCBR23/64 | \$48.35 |
| 3/8" | 5/16" | 5/32" | 4-1/16" | DEWCBR3/8 | \$44.28 |
| 25/64" | 3/8" | 5/32" | 4-1/16" | DEWCBR25/64 | \$49.60 |
| 13/32" | 3/8" | 5/32" | 4-1/16" | DEWCBR13/32 | \$46.89 |
| 27/64" | 3/8" | 5/32" | 4-1/16" | DEWCBR27/64 | \$49.60 |
| 7/16" | 3/8" | 5/32" | 4-1/16" | DEWCBR7/16 | \$46.89 |
| 29/64" | 7/16" | 5/32" | 4-5/16" | DEWCBR29/64 | \$53.07 |
| 15/32" | 7/16" | 3/16" | 4-5/16" | DEWCBR15/32 | \$49.56 |
| 31/64" | 7/16" | 3/16" | 4-5/16" | DEWCBR31/64 | \$53.07 |
| 1/2" | 7/16" | 3/16" | 4-5/16" | DEWCBR1/2 | \$49.56 |
| 33/64" | 1/2" | 3/16" | 4-5/16" | DEWCBR33/64 | \$59.75 |
| 17/32" | 1/2" | 3/16" | 4-5/16" | DEWCBR17/32 | \$55.09 |
| 35/64" | 1/2" | 3/16" | 4-5/16" | DEWCBR35/64 | \$62.16 |
| 9/16" | 1/2" | 3/16" | 4-5/16" | DEWCBR9/16 | \$55.09 |
| 37/64" | 1/2" | 3/16" | 5-1/8" | DEWCBR37/64 | \$65.16 |
| 19/32" | 1/2" | 3/16" | 5-1/8" | DEWCBR19/32 | \$58.77 |
| 39/64" | 1/2" | 3/16" | 5-1/8" | DEWCBR39/64 | \$65.15 |
| 5/8" | 1/2" | 3/16" | 5-1/8" | DEWCBR5/8 | \$58.77 |
| 41/64" | 1/2" | 3/16" | 5-1/8" | DEWCBR41/64 | \$69.56 |
| 21/32" | 1/2" | 3/16" | 5-1/8" | DEWCBR21/32 | \$64.93 |
| 43/64" | 1/2" | 3/16" | 5-1/8" | DEWCBR43/64 | \$69.56 |
| 11/16" | 1/2" | 3/16" | 5-1/8" | DEWCBR11/16 | \$64.93 |
| 45/64" | 1/2" | 1/4" | 5-3/8" | DEWCBR45/64 | \$71.28 |
| 23/32" | 1/2" | 1/4" | 5-3/8" | DEWCBR23/32 | \$67.52 |
| 47/64" | 1/2" | 1/4" | 5-3/8" | DEWCBR47/64 | \$71.28 |
| 3/4" | 1/2" | 1/4" | 5-3/8" | DEWCBR3/4 | \$67.52 |
| 49/64" | 5/8" | 1/4" | 5-3/8" | DEWCBR49/64 | \$75.70 |
| 25/32" | 5/8" | 1/4" | 5-3/8" | DEWCBR25/32 | \$71.28 |

| Size | Shank Size | Pilot Hole | O.A.L. | Part Number | List Price |
|----------|------------|------------|--------|---------------|------------|
| 51/64" | 5/8" | 1/4" | 5-3/8" | DEWCBR51/64 | \$75.70 |
| 13/16" | 5/8" | 1/4" | 5-3/8" | DEWCBR13/16 | \$69.10 |
| 53/64" | 3/4" | 1/4" | 5-3/8" | DEWCBR53/64 | \$80.71 |
| 27/32" | 3/4" | 1/4" | 5-3/8" | DEWCBR27/32 | \$75.86 |
| 55/64" | 3/4" | 1/4" | 5-3/8" | DEWCBR55/64 | \$80.71 |
| 7/8" | 3/4" | 1/4" | 5-3/8" | DEWCBR7/8 | \$72.37 |
| 57/64" | 3/4" | 1/4" | 6-1/8" | DEWCBR57/64 | \$82.82 |
| 29/32" | 3/4" | 1/4" | 6-1/8" | DEWCBR29/32 | \$75.94 |
| 59/64" | 3/4" | 1/4" | 6-1/8" | DEWCBR59/64 | \$82.82 |
| 15/16" | 3/4" | 1/4" | 6-1/8" | DEWCBR15/16 | \$75.94 |
| 61/64" | 3/4" | 1/4" | 6-3/8" | DEWCBR61/64 | \$91.38 |
| 31/32" | 3/4" | 5/16" | 6-3/8" | DEWCBR31/32 | \$91.04 |
| 63/64" | 3/4" | 5/16" | 6-3/8" | DEWCBR63/64 | \$95.21 |
| 1" | 3/4" | 5/16" | 6-3/8" | DEWCBR1INCH | \$91.04 |
| 1-1/16" | 3/4" | 5/16" | 6-3/8" | DEWCBR1-1/16 | \$104.43 |
| 1-1/8" | 1" | 5/16" | 6-3/8" | DEWCBR1-1/8 | \$108.84 |
| 1-3/16" | 1" | 5/16" | 6-3/8" | DEWCBR1-3/16 | \$114.04 |
| 1-1/4" | 1" | 3/8" | 6-5/8" | DEWCBR1-1/4 | \$133.84 |
| 1-5/16" | 1" | 3/8" | 6-5/8" | DEWCBR1-5/16 | \$152.31 |
| 1-3/8" | 1" | 3/8" | 6-5/8" | DEWCBR1-3/8 | \$152.31 |
| 1-7/16" | 1-1/4" | 3/8" | 7-7/8" | DEWCBR1-7/16 | \$170.71 |
| 1-1/2" | 1-1/4" | 3/8" | 7-7/8" | DEWCBR1-1/2 | \$173.99 |
| 1-9/16" | 1-1/4" | 7/16" | 8-1/8" | DEWCBR1-9/16 | \$237.07 |
| 1-5/8" | 1-1/4" | 7/16" | 8-1/8" | DEWCBR1-5/8 | \$237.07 |
| 1-11/16" | 1-1/4" | 7/16" | 8-1/8" | DEWCBR1-11/16 | \$254.92 |
| 1-3/4" | 1-1/4" | 7/16" | 8-1/8" | DEWCBR1-3/4 | \$254.92 |
| 1-13/16" | 1-1/4" | 7/16" | 8-1/8" | DEWCBR1-13/16 | \$280.56 |
| 1-7/8" | 1-1/4" | 7/16" | 8-1/8" | DEWCBR1-7/8 | \$280.56 |
| 1-15/16" | 1-1/4" | 7/16" | 8-1/8" | DEWCBR1-15/16 | \$317.19 |
| 2" | 1-1/2" | 1/2" | 8-3/8" | DEWCBR2INCH | \$323.18 |
| 2-1/4" | 1-1/2" | 1/2" | 9-7/8" | DEWCBR2-1/4 | \$447.04 |
| 2-1/2" | 1-3/4" | 1/2" | 9-7/8" | DEWCBR2-1/2 | \$510.89 |
| 2-3/4" | 1-3/4" | 1/2" | 9-7/8" | DEWCBR2-3/4 | \$667.24 |
| 2-7/8" | 1-3/4" | 1/2" | 9-7/8" | DEWCBR2-7/8 | \$694.22 |
| 3" | 1-3/4" | 1/2" | 9-7/8" | DEWCBR3INCH | \$719.88 |

SOLID COUNTERBORES



For fillister head cap screws.

MACHINE SCREW

DEW Series

| Screw Size | Pilot Dia. | Cut Dia. | O.A.L. | Part Number | List Price |
|------------|------------|----------|--------|-------------|------------|
| 2 | 0.085 | 0.155 | 2-1/2" | DEWCBRSOL2 | \$13.71 |
| 3 | 0.098 | 0.176 | 2-1/2" | DEWCBRSOL3 | \$14.36 |
| 4 | 0.111 | 0.198 | 2-5/8" | DEWCBRSOL4 | \$14.89 |
| 5 | 0.124 | 0.220 | 2-5/8" | DEWCBRSOL5 | \$17.52 |
| 6 | 0.137 | 0.241 | 2-5/8" | DEWCBRSOL6 | \$18.69 |
| 8 | 0.163 | 0.285 | 2-3/4" | DEWCBRSOL8 | \$19.39 |
| 10 | 0.189 | 0.328 | 2-7/8" | DEWCBRSOL10 | \$19.99 |
| 12 | 0.215 | 0.372 | 3" | DEWCBRSOL12 | \$23.67 |

FRACTIONAL

DEW Series

| Pilot Dia. | Cut Dia. | Shank Size | O.A.L. | Part Number | List Price |
|------------|----------|------------|--------|---------------|------------|
| 1/4" | 13/32" | 5/16" | 3-5/8" | DEWCBRSOL1/4 | \$33.38 |
| 5/16" | 15/32" | 3/8" | 4" | DEWCBRSOL5/16 | \$35.00 |
| 3/8" | 19/32" | 7/16" | 4-3/8" | DEWCBRSOL3/8 | \$39.01 |
| 7/16" | 21/32" | 1/2" | 4-3/4" | DEWCBRSOL7/16 | \$44.39 |
| 1/2" | 25/32" | 9/16" | 5-1/4" | DEWCBRSOL1/2 | \$48.71 |

COUNTERBORES

DEW Series



TAPER SHANK

| Size | Pilot Hole | O.A.L. | Shank Size | Part Number | List Price |
|---------|------------|----------|------------|----------------|------------|
| 1/4" | 3/32" | 3-13/16" | 1MT | DEWCBRTS1/4 | \$44.25 |
| 9/32" | 3/32" | 3-13/16" | 1MT | DEWCBRTS9/32 | \$44.25 |
| 5/16" | 3/32" | 3-13/16" | 1MT | DEWCBRTS5/16 | \$45.48 |
| 3/8" | 5/32" | 4-1/16" | 1MT | DEWCBRTS3/8 | \$45.57 |
| 7/16" | 5/32" | 4-1/16" | 1MT | DEWCBRTS7/16 | \$48.23 |
| 1/2" | 3/16" | 4-5/16" | 1MT | DEWCBRTS1/2 | \$49.52 |
| 9/16" | 3/16" | 4-5/16" | 1MT | DEWCBRTS9/16 | \$55.53 |
| 5/8" | 3/16" | 5-1/8" | 2MT | DEWCBRTS5/8 | \$59.20 |
| 11/16" | 3/16" | 5-1/8" | 2MT | DEWCBRTS11/16 | \$65.00 |
| 3/4" | 1/4" | 5-3/8" | 2MT | DEWCBRTS3/4 | \$67.43 |
| 13/16" | 1/4" | 5-3/8" | 2MT | DEWCBRTS13/16 | \$71.20 |
| 27/32" | 1/4" | 5-3/8" | 2MT | DEWCBRTS27/32 | \$74.56 |
| 7/8" | 1/4" | 5-3/8" | 2MT | DEWCBRTS7/8 | \$74.56 |
| 15/16" | 1/4" | 6-1/8" | 3MT | DEWCBRTS15/16 | \$78.17 |
| 1" | 5/16" | 6-3/8" | 3MT | DEWCBRTS1INCH | \$93.69 |
| 1-1/16" | 5/16" | 6-3/8" | 3MT | DEWCBRTS1-1/16 | \$107.55 |
| 1-1/8" | 5/16" | 6-3/8" | 3MT | DEWCBRTS1-1/8 | \$112.15 |
| 1-3/16" | 5/16" | 6-3/8" | 3MT | DEWCBRTS1-3/16 | \$117.31 |
| 1-1/4" | 3/8" | 6-5/8" | 3MT | DEWCBRTS1-1/4 | \$137.78 |
| 1-5/16" | 3/8" | 6-5/8" | 3MT | DEWCBRTS1-5/16 | \$146.15 |

| Size | Pilot Hole | O.A.L. | Shank Size | Part Number | List Price |
|----------|------------|--------|------------|-----------------|------------|
| 1-3/8" | 3/8" | 6-5/8" | 3MT | DEWCBRTS1-3/8 | \$152.05 |
| 1-7/16" | 3/8" | 7-7/8" | 4MT | DEWCBRTS1-7/16 | \$170.54 |
| 1-1/2" | 3/8" | 7-7/8" | 4MT | DEWCBRTS1-1/2 | \$173.81 |
| 1-9/16" | 7/16" | 8-1/8" | 4MT | DEWCBRTS1-9/16 | \$236.68 |
| 1-5/8" | 7/16" | 8-1/8" | 4MT | DEWCBRTS1-5/8 | \$236.68 |
| 1-11/16" | 7/16" | 8-1/8" | 4MT | DEWCBRTS1-11/16 | \$254.67 |
| 1-3/4" | 7/16" | 8-1/8" | 4MT | DEWCBRTS1-3/4 | \$254.67 |
| 1-13/16" | 7/16" | 8-1/8" | 4MT | DEWCBRTS1-13/16 | \$280.25 |
| 1-7/8" | 7/16" | 8-1/8" | 4MT | DEWCBRTS1-7/8 | \$280.25 |
| 1-15/16" | 7/16" | 8-1/8" | 4MT | DEWCBRTS1-15/16 | \$316.90 |
| 2" | 1/2" | 8-3/8" | 4MT | DEWCBRTS2INCH | \$322.77 |
| 2-1/8" | 1/2" | 9-7/8" | 5MT | DEWCBRTS2-1/8 | \$434.49 |
| 2-1/4" | 1/2" | 9-7/8" | 5MT | DEWCBRTS2-1/4 | \$462.73 |
| 2-3/8" | 1/2" | 9-7/8" | 5MT | DEWCBRTS2-3/8 | \$496.63 |
| 2-1/2" | 1/2" | 9-7/8" | 5MT | DEWCBRTS2-1/2 | \$528.75 |
| 2-5/8" | 1/2" | 9-7/8" | 5MT | DEWCBRTS2-5/8 | \$651.67 |
| 2-3/4" | 1/2" | 9-7/8" | 5MT | DEWCBRTS2-3/4 | \$690.64 |
| 2-7/8" | 1/2" | 9-7/8" | 5MT | DEWCBRTS2-7/8 | \$718.57 |
| 3" | 1/2" | 9-7/8" | 5MT | DEWCBRTS3INCH | \$745.12 |



CONTINUOUS PILOT CAP SCREW COUNTERBORES

DEW Series

| Size | Pilot Dia. | Cutter Dia. | Shank Dia. | O.A.L. | Part Number | List Price |
|-------|------------|-------------|------------|--------|--------------|------------|
| 5 | 0.141 | 0.221 | 3/16" | 3" | DEWCSCBR5 | \$35.79 |
| 6 | 0.15 | 0.242 | 7/32" | 3" | DEWCSCBR6 | \$35.79 |
| 8 | 11/64" | 19/64" | 1/4" | 3" | DEWCSCBR8 | \$35.79 |
| 10 | 13/64" | 21/64" | 5/16" | 3-1/2" | DEWCSCBR10 | \$37.86 |
| 1/4" | 9/32" | 13/32" | 3/8" | 5" | DEWCSCBR1/4 | \$44.93 |
| 5/16" | 11/32" | 1/2" | 7/16" | 5" | DEWCSCBR5/16 | \$48.45 |
| 3/8" | 13/32" | 19/32" | 1/2" | 6" | DEWCSCBR3/8 | \$56.97 |

| Size | Pilot Dia. | Cutter Dia. | Shank Dia. | O.A.L. | Part Number | List Price |
|-------|------------|-------------|------------|--------|---------------|------------|
| 7/16" | 15/32" | 11/16" | 1/2" | 7" | DEWCSCBR7/16 | \$64.50 |
| 1/2" | 17/32" | 25/32" | 3/4" | 7-1/2" | DEWCSCBR1/2 | \$71.40 |
| 5/8" | 21/32" | 31/32" | 3/4" | 7-1/2" | DEWCSCBR5/8 | \$99.97 |
| 3/4" | 13/16" | 1-3/16" | 1" | 8" | DEWCSCBR3/4 | \$148.27 |
| 7/8" | 15/16" | 1-3/8" | 1" | 8" | DEWCSCBR7/8 | \$222.56 |
| 1" | 1-1/16" | 1-9/16" | 1" | 8" | DEWCSCBR1INCH | \$270.06 |

DEW Series

AIRCRAFT COUNTERBORES (1/4" SHANK)

| Size | Decimal Equiv | Pilot Hole | O.A.L. | Part Number | List Price |
|--------|---------------|------------|----------|----------------|------------|
| 1/4" | 0.2500 | 3/32" | 2-3/8" | DEWA/CCBR1/4 | \$45.71 |
| 9/32" | 0.2813 | 3/32" | 2-3/8" | DEWA/CCBR9/32 | \$46.60 |
| 5/16" | 0.3125 | 3/32" | 2-3/8" | DEWA/CCBR5/16 | \$47.14 |
| 11/32" | 0.3438 | 3/32" | 2-3/8" | DEWA/CCBR11/32 | \$48.09 |
| 3/8" | 0.3750 | 3/32" | 2-3/8" | DEWA/CCBR3/8 | \$48.09 |
| 13/32" | 0.4063 | 1/8" | 2-13/16" | DEWA/CCBR13/32 | \$52.77 |
| 7/16" | 0.4375 | 1/8" | 2-13/16" | DEWA/CCBR7/16 | \$50.64 |
| 15/32" | 0.4688 | 1/8" | 2-13/16" | DEWA/CCBR15/32 | \$52.20 |
| 1/2" | 0.5000 | 1/8" | 2-13/16" | DEWA/CCBR1/2 | \$53.14 |
| 17/32" | 0.5313 | 1/8" | 2-13/16" | DEWA/CCBR17/32 | \$60.93 |
| 9/16" | 0.5625 | 1/8" | 2-13/16" | DEWA/CCBR9/16 | \$62.02 |
| 19/32" | 0.5938 | 1/8" | 2-13/16" | DEWA/CCBR19/32 | \$66.17 |
| 5/8" | 0.6250 | 1/8" | 2-13/16" | DEWA/CCBR5/8 | \$66.18 |
| 21/32" | 0.6563 | 3/16" | 3-1/8" | DEWA/CCBR21/32 | \$72.17 |
| 11/16" | 0.6875 | 3/16" | 3-1/8" | DEWA/CCBR11/16 | \$73.03 |
| 23/32" | 0.7188 | 3/16" | 3-1/8" | DEWA/CCBR23/32 | \$75.97 |
| 3/4" | 0.7500 | 3/16" | 3-1/8" | DEWA/CCBR3/4 | \$76.01 |
| 25/32" | 0.7813 | 3/16" | 3-1/8" | DEWA/CCBR25/32 | \$80.30 |
| 13/16" | 0.8125 | 3/16" | 3-1/8" | DEWA/CCBR13/16 | \$77.76 |
| 27/32" | 0.8438 | 3/16" | 3-1/8" | DEWA/CCBR27/32 | \$81.45 |
| 7/8" | 0.8750 | 3/16" | 3-1/8" | DEWA/CCBR7/8 | \$81.46 |
| 29/32" | 0.9063 | 3/16" | 3-1/8" | DEWA/CCBR29/32 | \$85.52 |
| 15/16" | 0.9375 | 3/16" | 3-1/8" | DEWA/CCBR15/16 | \$85.53 |
| 31/32" | 0.9688 | 3/16" | 3-1/8" | DEWA/CCBR31/32 | \$102.52 |
| 1" | 1.0000 | 3/16" | 3-1/8" | DEWA/CCBR1 | \$103.34 |



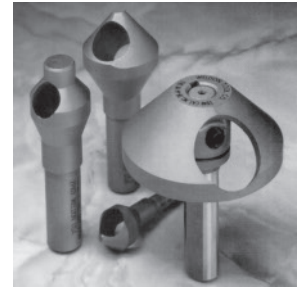
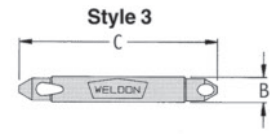
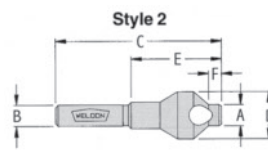
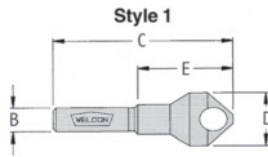
PILOTS FOR COUNTERBORES



DEWPIL Series

| Size | Shank Dia. | Pilot O.A.L. | Part Number | List Price | Size | Shank Dia. | Pilot O.A.L. | Part Number | List Price |
|--------|------------|--------------|------------------|------------|---------|------------|--------------|-------------------|------------|
| 1/8" | 3/32" | 1-1/4" | DEWPIL1/8X3/32 | \$8.86 | 1/2" | 3/32" | 1-1/4" | DEWPIL1/2X3/32 | \$12.34 |
| 1/8" | 1/8" | 1-1/2" | DEWPIL1/8X1/8 | \$8.86 | 1/2" | 1/8" | 1-1/2" | DEWPIL1/2X1/8 | \$12.34 |
| 5/32" | 3/32" | 1-1/4" | DEWPIL5/32X3/32 | \$8.86 | 1/2" | 5/32" | 1-1/2" | DEWPIL1/2X5/32 | \$12.34 |
| 5/32" | 1/8" | 1-1/2" | DEWPIL5/32X1/8 | \$8.86 | 1/2" | 3/16" | 1-3/4" | DEWPIL1/2X3/16 | \$12.34 |
| 5/32" | 5/32" | 1-1/2" | DEWPIL5/32X5/32 | \$8.86 | 1/2" | 1/4" | 1-7/8" | DEWPIL1/2X1/4 | \$12.34 |
| 3/16" | 3/32" | 1-1/4" | DEWPIL3/16X3/32 | \$8.86 | 1/2" | 5/16" | 2-1/8" | DEWPIL1/2X5/16 | \$12.34 |
| 3/16" | 1/8" | 1-1/2" | DEWPIL3/16X1/8 | \$8.86 | 1/2" | 3/8" | 2-3/8" | DEWPIL1/2X3/8 | \$12.34 |
| 3/16" | 5/32" | 1-1/2" | DEWPIL3/16X5/32 | \$8.86 | 1/2" | 7/16" | 2-5/8" | DEWPIL1/2X7/16 | \$12.34 |
| 3/16" | 3/16" | 1-3/4" | DEWPIL3/16X3/16 | \$8.86 | 9/16" | 3/16" | 1-3/4" | DEWPIL9/16X3/16 | \$15.74 |
| 7/32" | 3/32" | 1-1/4" | DEWPIL7/32X3/32 | \$10.22 | 9/16" | 1/4" | 1-7/8" | DEWPIL9/16X1/4 | \$15.74 |
| 7/32" | 1/8" | 1-1/2" | DEWPIL7/32X1/8 | \$10.22 | 9/16" | 5/16" | 2-1/8" | DEWPIL9/16X5/16 | \$15.74 |
| 7/32" | 5/32" | 1-1/2" | DEWPIL7/32X5/32 | \$10.22 | 9/16" | 3/8" | 2-3/8" | DEWPIL9/16X3/8 | \$15.74 |
| 7/32" | 3/16" | 1-3/4" | DEWPIL7/32X3/16 | \$10.22 | 9/16" | 7/16" | 2-5/8" | DEWPIL9/16X7/16 | \$15.74 |
| 1/4" | 3/32" | 1-1/4" | DEWPIL1/4X3/32 | \$10.22 | 9/16" | 1/2" | 2-3/4" | DEWPIL9/16X1/2 | \$15.74 |
| 1/4" | 1/8" | 1-1/2" | DEWPIL1/4X1/8 | \$10.22 | 5/8" | 3/16" | 1-3/4" | DEWPIL5/8X3/16 | \$18.95 |
| 1/4" | 5/32" | 1-1/2" | DEWPIL1/4X5/32 | \$10.22 | 5/8" | 1/4" | 1-7/8" | DEWPIL5/8X1/4 | \$18.95 |
| 1/4" | 3/16" | 1-3/4" | DEWPIL1/4X3/16 | \$10.22 | 5/8" | 5/16" | 2-1/8" | DEWPIL5/8X5/16 | \$18.95 |
| 1/4" | 1/4" | 1-7/8" | DEWPIL1/4X1/4 | \$10.22 | 5/8" | 3/8" | 2-3/8" | DEWPIL5/8X3/8 | \$18.95 |
| 9/32" | 3/32" | 1-1/4" | DEWPIL9/32X3/32 | \$10.99 | 5/8" | 7/16" | 2-5/8" | DEWPIL5/8X7/16 | \$18.95 |
| 9/32" | 1/8" | 1-1/2" | DEWPIL9/32X1/8 | \$10.99 | 5/8" | 1/2" | 2-3/4" | DEWPIL5/8X1/2 | \$18.95 |
| 9/32" | 5/32" | 1-1/2" | DEWPIL9/32X5/32 | \$10.99 | 11/16" | 1/4" | 1-7/8" | DEWPIL11/16X1/4 | \$20.13 |
| 9/32" | 3/16" | 1-3/4" | DEWPIL9/32X3/16 | \$10.99 | 11/16" | 5/16" | 2-1/8" | DEWPIL11/16X5/16 | \$20.13 |
| 5/16" | 3/32" | 1-1/4" | DEWPIL5/16X3/32 | \$10.99 | 11/16" | 3/8" | 2-3/8" | DEWPIL11/16X3/8 | \$20.13 |
| 5/16" | 1/8" | 1-1/2" | DEWPIL5/16X1/8 | \$10.99 | 11/16" | 1/2" | 2-3/4" | DEWPIL11/16X1/2 | \$20.13 |
| 5/16" | 5/32" | 1-1/2" | DEWPIL5/16X5/32 | \$10.99 | 3/4" | 3/16" | 1-3/4" | DEWPIL3/4X3/16 | \$21.31 |
| 5/16" | 3/16" | 1-3/4" | DEWPIL5/16X3/16 | \$10.99 | 3/4" | 1/4" | 1-7/8" | DEWPIL3/4X1/4 | \$21.31 |
| 5/16" | 1/4" | 1-7/8" | DEWPIL5/16X1/4 | \$10.99 | 3/4" | 5/16" | 2-1/8" | DEWPIL3/4X5/16 | \$21.31 |
| 11/32" | 3/32" | 1-1/4" | DEWPIL11/32X3/32 | \$10.99 | 3/4" | 3/8" | 2-3/8" | DEWPIL3/4X3/8 | \$21.31 |
| 11/32" | 1/8" | 1-1/2" | DEWPIL11/32X1/8 | \$10.99 | 3/4" | 7/16" | 2-5/8" | DEWPIL3/4X7/16 | \$21.31 |
| 11/32" | 3/16" | 1-3/4" | DEWPIL11/32X3/16 | \$10.99 | 3/4" | 1/2" | 2-3/4" | DEWPIL3/4X1/2 | \$21.31 |
| 11/32" | 1/4" | 1-7/8" | DEWPIL11/32X1/4 | \$10.99 | 13/16" | 1/4" | 1-7/8" | DEWPIL13/16X1/4 | \$23.96 |
| 3/8" | 3/32" | 1-1/4" | DEWPIL3/8X3/32 | \$10.99 | 13/16" | 5/16" | 2-1/8" | DEWPIL13/16X5/16 | \$23.96 |
| 3/8" | 1/8" | 1-1/2" | DEWPIL3/8X1/8 | \$10.99 | 13/16" | 3/8" | 2-3/8" | DEWPIL13/16X3/8 | \$23.96 |
| 3/8" | 5/32" | 1-1/2" | DEWPIL3/8X5/32 | \$10.99 | 13/16" | 1/2" | 2-3/4" | DEWPIL13/16X1/2 | \$23.96 |
| 3/8" | 3/16" | 1-3/4" | DEWPIL3/8X3/16 | \$10.99 | 7/8" | 1/4" | 1-7/8" | DEWPIL7/8X1/4 | \$25.52 |
| 3/8" | 1/4" | 1-7/8" | DEWPIL3/8X1/4 | \$10.99 | 7/8" | 5/16" | 2-1/8" | DEWPIL7/8X5/16 | \$25.52 |
| 3/8" | 5/16" | 2-1/8" | DEWPIL3/8X5/16 | \$10.99 | 7/8" | 3/8" | 2-3/8" | DEWPIL7/8X3/8 | \$25.52 |
| 13/32" | 1/8" | 1-1/2" | DEWPIL13/32X1/8 | \$12.34 | 7/8" | 7/16" | 2-5/8" | DEWPIL7/8X7/16 | \$25.52 |
| 13/32" | 5/32" | 1-1/2" | DEWPIL13/32X5/32 | \$12.34 | 7/8" | 1/2" | 2-3/4" | DEWPIL7/8X1/2 | \$25.52 |
| 13/32" | 3/16" | 1-1/2" | DEWPIL13/32X3/16 | \$12.34 | 15/16" | 5/16" | 2-1/8" | DEWPIL15/16X5/16 | \$28.88 |
| 13/32" | 1/4" | 1-7/8" | DEWPIL13/32X1/4 | \$12.34 | 15/16" | 3/8" | 2-3/8" | DEWPIL15/16X3/8 | \$28.88 |
| 13/32" | 5/16" | 2-1/8" | DEWPIL13/32X5/16 | \$12.34 | 15/16" | 7/16" | 2-5/8" | DEWPIL15/16X7/16 | \$28.88 |
| 13/32" | 3/8" | 2-3/8" | DEWPIL13/32X3/8 | \$12.34 | 15/16" | 1/2" | 2-3/4" | DEWPIL15/16X1/2 | \$28.88 |
| 7/16" | 3/32" | 1-1/4" | DEWPIL7/16X3/32 | \$12.34 | 1" | 1/4" | 1-7/8" | DEWPIL1X1/4 | \$30.67 |
| 7/16" | 1/8" | 1-1/2" | DEWPIL7/16X1/8 | \$12.34 | 1" | 5/16" | 2-1/8" | DEWPIL1X5/16 | \$30.67 |
| 7/16" | 5/32" | 1-1/2" | DEWPIL7/16X5/32 | \$12.34 | 1" | 3/8" | 2-3/8" | DEWPIL1X3/8 | \$30.67 |
| 7/16" | 3/16" | 1-3/4" | DEWPIL7/16X3/16 | \$12.34 | 1" | 7/16" | 2-5/8" | DEWPIL1X7/16 | \$30.67 |
| 7/16" | 1/4" | 1-7/8" | DEWPIL7/16X1/4 | \$12.34 | 1" | 1/2" | 2-3/4" | DEWPIL1X1/2 | \$30.67 |
| 7/16" | 5/16" | 2-1/8" | DEWPIL7/16X5/16 | \$12.34 | 1-1/8" | 5/16" | 2-1/8" | DEWPIL1-1/8X5/16 | \$38.19 |
| 7/16" | 3/8" | 2-3/8" | DEWPIL7/16X3/8 | \$12.34 | 1-1/8" | 3/8" | 2-3/8" | DEWPIL1-1/8X3/8 | \$38.19 |
| 15/32" | 1/8" | 1-1/2" | DEWPIL15/32X1/8 | \$12.34 | 1-1/8" | 7/16" | 2-5/8" | DEWPIL1-1/8X7/16 | \$38.19 |
| 15/32" | 3/16" | 1-1/2" | DEWPIL15/32X3/16 | \$12.34 | 1-1/8" | 1/2" | 2-3/4" | DEWPIL1-1/8X1/2 | \$38.19 |
| 15/32" | 1/4" | 1-7/8" | DEWPIL15/32X1/4 | \$12.34 | 1-3/16" | 7/16" | 1-7/8" | DEWPIL1-3/16X7/16 | \$40.62 |
| 15/32" | 5/16" | 2-1/8" | DEWPIL15/32X5/16 | \$12.34 | 1-3/16" | 1/2" | 2-1/8" | DEWPIL1-3/16X1/2 | \$40.62 |

COUNTERSINKS & DEBURRING TOOLS



| WELDC Series | | 60° DEBURRING TOOLS | | | | | | | Part Number | List Price |
|--------------|-----------------|---------------------|---------|----------|--------|---------|-------------|------------|-------------|------------|
| Style | Diameter of cut | | Shank B | O.A.L. | | | Part Number | List Price | | |
| | Min. | Max. | | C | D | E | | | | |
| 3 | 3/32" | 11/64" | 3/16" | 1-1/2" | | | WELDC-6 | \$24.90 | | |
| 3 | 1/8" | 15/64" | 1/4" | 1-3/4" | | | WELDC-8 | \$26.18 | | |
| 1 | 3/16" | 13/32" | 1/4" | 1-3/4" | 7/16" | 7/8" | WELDC-14 | \$29.95 | | |
| 1 | 5/16" | 17/32" | 1/4" | 1-15/16" | 9/16" | 1-1/16" | WELDC-18 | \$36.91 | | |
| 1 | 7/16" | 25/32" | 1/2" | 2-11/16" | 13/16" | 1-7/16" | WELDC-26 | \$63.89 | | |
| 1 | 7/16" | 25/32" | 1/4" | 2-1/8" | 13/16" | 1-1/4" | WELDC-26A | \$63.89 | | |
| 1 | 11/16" | 1-3/32" | 1/2" | 2-7/8" | 1-1/8" | 1-5/8" | WELDC-36 | \$108.95 | | |

WELCS Series PILOTED 82° COUNTERSINKS

| Style | Screw Size | Pilot A | Shank B | O.A.L. | | | Part Number | List Price | |
|-------|------------|---------|---------|----------|--------|---------|-------------|------------|---------|
| | | | | C | D | E | | | |
| 2 | 1/4" | 1/4" | 3/8" | 2" | 33/64" | 1" | 5/32" | WELCS8-1 | \$39.87 |
| 2 | 1/4" | 17/64" | 3/8" | 2" | 33/64" | 1" | 5/32" | WELCS8-2 | \$39.87 |
| 2 | 5/16" | 5/16" | 3/8" | 2-3/16" | 41/64" | 1-3/16" | 5/32" | WELCS10-1 | \$47.63 |
| 2 | 5/16" | 21/64" | 3/8" | 2-3/16" | 41/64" | 1-3/16" | 5/32" | WELCS10-2 | \$47.63 |
| 2 | 3/8" | 3/8" | 1/2" | 2-5/8" | 49/64" | 1-3/8" | 5/32" | WELCS12-1 | \$63.22 |
| 2 | 3/8" | 25/64" | 1/2" | 2-5/8" | 49/64" | 1-3/8" | 5/32" | WELCS12-2 | \$63.22 |
| 2 | 7/16" | 7/16" | 1/2" | 2-3/4" | 53/64" | 1-1/2" | 7/32" | WELCS14-1 | \$78.69 |
| 2 | 7/16" | 29/64" | 1/2" | 2-3/4" | 53/64" | 1-1/2" | 7/32" | WELCS14-2 | \$78.69 |
| 2 | 1/2" | 1/2" | 1/2" | 2-13/16" | 15/16" | 1-9/16" | 1/4" | WELCS16-1 | \$81.79 |
| 2 | 1/2" | 33/64" | 1/2" | 2-13/16" | 15/16" | 1-9/16" | 1/4" | WELCS16-2 | \$81.79 |



WELCS Series PILOTLESS 82° COUNTERSINKS

| Style | Diameter of cut | | Shank B | O.A.L. | | | Part Number | List Price |
|-------|-----------------|----------|---------|----------|--------|---------|-------------|------------|
| | Min. | Max. | | C | D | E | | |
| 3 | .073" | 15/64" | 1/4" | 1-3/4" | | | WELCS-3S | \$27.49 |
| 1 | 3/16" | 17/32" | 1/4" | 1-7/8" | | | WELCS-18 | \$34.41 |
| 1 | .307" | 25/32" | 1/2" | 2-5/8" | 13/16" | 1-3/8" | WELCS-26 | \$59.71 |
| 1 | .307" | 25/32" | 1/4" | 2-1/16" | 13/16" | 1-1/4" | WELCS-26A | \$59.71 |
| 1 | .431" | 7/8" | 1/2" | 2-13/16" | 1-1/8" | 1-9/16" | WELCS-36 | \$101.44 |
| 1 | 1/2" | 1-15/32" | 1/2" | 3-1/2" | 1-1/2" | 2-1/8" | WELCS-48 | \$231.54 |

| Style | Screw Size | Pilot A | Shank B | O.A.L. | | | Part Number | List Price |
|-------|------------|---------|---------|--------|--------|------|-------------|------------|
| | | | | C | D | E | | |
| 1 | 4,5 | | 1/4" | 1-1/2" | 17/64" | 5/8" | WELCS-5S | \$19.83 |
| 1 | 6 | | 1/4" | 1-1/2" | 19/64" | 5/8" | WELCS-6S | \$20.93 |
| 1 | 8 | | 1/4" | 1-5/8" | 11/32" | 3/4" | WELCS-8S | \$22.28 |
| 1 | 10 | | 1/4" | 1-5/8" | 25/64" | 3/4" | WELCS-10S | \$26.15 |



WELDB Series 90° DEBURRING TOOLS

| Style | Diameter of cut | | Shank B | O.A.L. | | | Part Number | List Price |
|-------|-----------------|----------|---------|----------|--------|---------|-------------|------------|
| | Min. | Max. | | C | D | E | | |
| 3 | 1/64" | 11/64" | 3/16" | 1-1/2" | | | WELDB-4 | \$43.90 |
| 3 | 1/16" | 11/64" | 3/16" | 1-1/2" | | | WELDB-6 | \$23.01 |
| 3 | 1/8" | 15/64" | 1/4" | 1-3/4" | | | WELDB-8 | \$24.19 |
| 1 | 5/32" | 13/32" | 1/4" | 1-11/16" | 7/16" | 13/16" | WELDB-14 | \$27.39 |
| 1 | 3/16" | 17/32" | 1/4" | 1-7/8" | 9/16" | 1" | WELDB-18 | \$33.84 |
| 1 | 5/16" | 25/32" | 1/2" | 2-19/32" | 13/16" | 1-3/8" | WELDB-26 | \$58.88 |
| 1 | 5/16" | 25/32" | 1/4" | 2-1/32" | 13/16" | 1-5/32" | WELDB-26A | \$58.88 |
| 1 | 9/16" | 1-3/32" | 1/2" | 2-13/16" | 1-1/8" | 1-9/16" | WELDB-36 | \$100.49 |
| 1 | 1/2" | 1-15/32" | 1/2" | 3-1/2" | 1-1/2" | 2-1/8" | WELDB-48 | \$229.06 |

WELCSA Series 100° DEBURRING TOOLS

| Style | Diameter of cut | | Shank B | O.A.L. | | | Part Number | List Price |
|-------|-----------------|--------|---------|----------|-------|--------|-------------|------------|
| | Min. | Max. | | C | D | E | | |
| 1 | 3/32" | 1/4" | 1/4" | 1-1/2" | | | WELCSA-8 | \$19.83 |
| 1 | 1/8" | 27/64" | 1/4" | 1-11/16" | 7/16" | 13/16" | WELCSA-14 | \$27.49 |
| 1 | 3/16" | 35/64" | 1/4" | 1-7/8" | 9/16" | 1" | WELCSA-18 | \$35.26 |

HSS COUNTERSINKS

DEWSFC Series - Single Flute Countersinks

Single flute countersinks are ideal for chamfering, deburring, and countersinking. They provide a smooth finish on a variety of materials

DEWCSK Series - 3 Flute Countersinks

3 - Flute center reamers are designed for countersinking holes for centers or to enlarge existing holes.

DEWMSK Series - 4 Flute Countersinks

4 - Flute countersinks or machine countersinks are designed for countersinking holes for centers or to enlarge existing holes.

DEWCHAT Series - 6 Flute Countersinks

6 - Flute or chatterless countersinks are designed to provide more metal removal than the 1, 2, 3, & 4 flute countersinks. They are also more effective on harder materials.



DEWSFC Series

S I N G L E F L U T E H S S

| Size | Shank | | 60° | | | | | | List Price |
|--------|-------|--------|----------------|----------------|----------------|-----------------|-----------------|----------|------------|
| | Dia. | O.A.L. | Part # | Part # | Part # | Part # | Part # | Part # | |
| 3/16" | 3/16" | 1-1/2" | DEWSFC3/16-60 | DEWSFC3/16-82 | DEWSFC3/16-90 | DEWSFC3/16-100 | DEWSFC3/16-120 | \$9.09 | |
| 1/4" | 1/4" | 2" | DEWSFC1/4-60 | DEWSFC1/4-82 | DEWSFC1/4-90 | DEWSFC1/4-100 | DEWSFC1/4-120 | \$9.98 | |
| 5/16" | 1/4" | 2" | DEWSFC5/16-60 | DEWSFC5/16-82 | DEWSFC5/16-90 | DEWSFC5/16-100 | DEWSFC5/16-120 | \$11.38 | |
| 3/8" | 1/4" | 2" | DEWSFC3/8-60 | DEWSFC3/8-82 | DEWSFC3/8-90 | DEWSFC3/8-100 | DEWSFC3/8-120 | \$11.38 | |
| 1/2" | 1/4" | 2" | DEWSFC1/2-60 | DEWSFC1/2-82 | DEWSFC1/2-90 | DEWSFC1/2-100 | DEWSFC1/2-120 | \$14.54 | |
| 5/8" | 3/8" | 2-1/4" | DEWSFC5/8-60 | DEWSFC5/8-82 | DEWSFC5/8-90 | DEWSFC5/8-100 | DEWSFC5/8-120 | \$20.66 | |
| 3/4" | 3/8" | 2-3/4" | DEWSFC3/4-60 | DEWSFC3/4-82 | DEWSFC3/4-90 | DEWSFC3/4-100 | DEWSFC3/4-120 | \$27.62 | |
| 7/8" | 1/2" | 2-3/4" | DEWSFC7/8-60 | DEWSFC7/8-82 | DEWSFC7/8-90 | DEWSFC7/8-100 | DEWSFC7/8-120 | \$47.02 | |
| 1" | 1/2" | 2-3/4" | DEWSFC1-60 | DEWSFC1-82 | DEWSFC1-90 | DEWSFC1-100 | DEWSFC1-120 | \$51.45 | |
| 1-1/4" | 3/4" | 3-3/8" | DEWSFC1-1/4-60 | DEWSFC1-1/4-82 | DEWSFC1-1/4-90 | DEWSFC1-1/4-100 | DEWSFC1-1/4-120 | \$80.25 | |
| 1-1/2" | 3/4" | 3-3/8" | DEWSFC1-1/2-60 | DEWSFC1-1/2-82 | DEWSFC1-1/2-90 | DEWSFC1-1/2-100 | DEWSFC1-1/2-120 | \$106.49 | |
| 2" | 3/4" | 3-3/8" | DEWSFC2-60 | DEWSFC2-82 | DEWSFC2-90 | DEWSFC2-100 | DEWSFC2-120 | \$206.00 | |

DEWCSK Series

3 F L U T E H S S (C E N T E R R E A M E R S)

| Size | Shank | | 60° | | | | | | List Price |
|--------|-------|--------|----------------|------------------|--------------|---------------|---------------|----------|------------|
| | Dia. | O.A.L. | Part # | Part # | Part # | Part # | Part # | Part # | |
| 1/4" | 3/16" | 1-1/2" | DEWCSK1/4-60 | DEWCSK1/4-82 | DEWCSK1/4-90 | DEWCSK1/4-100 | DEWCSK1/4-120 | \$9.24 | |
| 3/8" | 1/4" | 1-3/4" | DEWCSK3/8-60 | DEWCSK3/8-82 | DEWCSK3/8-90 | DEWCSK3/8-100 | DEWCSK3/8-120 | \$11.02 | |
| 1/2" | 3/8" | 2" | DEWCSK1/2-60 | DEWCSK1/2-82 | DEWCSK1/2-90 | DEWCSK1/2-100 | DEWCSK1/2-120 | \$13.41 | |
| 1/2" | 1/4" | 2" | - | DEWCSK1/2-82x1/4 | - | - | - | \$13.41 | |
| 5/8" | 3/8" | 2-1/4" | DEWCSK5/8-60 | DEWCSK5/8-82 | DEWCSK5/8-90 | DEWCSK5/8-100 | DEWCSK5/8-120 | \$20.97 | |
| 3/4" | 1/2" | 2-5/8" | DEWCSK3/4-60 | DEWCSK3/4-82 | DEWCSK3/4-90 | DEWCSK3/4-100 | DEWCSK3/4-120 | \$30.91 | |
| 7/8" | 1/2" | 2-3/4" | DEWCSK7/8-60 | DEWCSK7/8-82 | DEWCSK7/8-90 | DEWCSK7/8-100 | DEWCSK7/8-120 | \$44.11 | |
| 1" | 1/2" | 3-1/2" | DEWCSK1-60 | DEWCSK1-82 | DEWCSK1-90 | DEWCSK1-100 | DEWCSK1-120 | \$46.53 | |
| 1-1/4" | 3/4" | 3-1/2" | DEWCSK1-1/4-60 | DEWCSK1-1/4-82 | - | - | - | \$110.08 | |
| 1-1/2" | 3/4" | 3-1/2" | DEWCSK1-1/2-60 | DEWCSK1-1/2-82 | - | - | - | \$142.65 | |

4 F L U T E H S S (M A C H I N E C O U N T E R S I N K S)

DEWMSK Series

| Size | Shank | | 60° | | List Price |
|--------|-------|--------|----------------|----------------|------------|
| | Dia. | O.A.L. | Part # | Part # | |
| 1/2" | 1/2" | 3-7/8" | DEWMSK1/2-60 | DEWMSK1/2-60 | \$28.28 |
| 5/8" | 1/2" | 4" | DEWMSK5/8-60 | DEWMSK5/8-82 | \$22.09 |
| 3/4" | 1/2" | 4-1/8" | DEWMSK3/4-60 | DEWMSK3/4-82 | \$43.72 |
| 7/8" | 1/2" | 4-1/4" | DEWMSK7/8-60 | DEWMSK7/8-82 | \$53.39 |
| 1" | 1/2" | 4-3/8" | DEWMSK1-60 | DEWMSK1-82 | \$52.43 |
| 1-1/4" | 1/2" | 5" | DEWMSK1-1/4-60 | DEWMSK1-1/4-82 | \$115.99 |
| 1-1/2" | 1/2" | 5-3/8" | DEWMSK1-1/2-60 | DEWMSK1-1/2-82 | \$150.29 |
| 2" | 1/2" | 5-3/8" | DEWMSK2-60 | DEWMSK2-82 | \$243.06 |

COUNTERSINKS

6 FLUTE HSS CHATTERLESS (COUNTERSINKS)

DEWCHAT Series

| Size | Shank | | 60° | 82° | 90° | List Price |
|--------|-------|--------|-----------------|-----------------|-----------------|------------|
| | Dia. | O.A.L. | Part # | Part # | Part # | |
| 3/16" | 3/16" | 1-1/2" | DEWCHAT3/16-60 | DEWCHAT3/16-82 | DEWCHAT3/16-90 | \$11.67 |
| 1/4" | 1/4" | 2" | DEWCHAT1/4-60 | DEWCHAT1/4-82 | DEWCHAT1/4-90 | \$12.28 |
| 5/16" | 1/4" | 2" | DEWCHAT5/16-60 | DEWCHAT5/16-82 | DEWCHAT5/16-90 | \$13.41 |
| 3/8" | 1/4" | 2" | DEWCHAT3/8-60 | DEWCHAT3/8-82 | DEWCHAT3/8-90 | \$15.94 |
| 1/2" | 1/4" | 2" | DEWCHAT1/2-60 | DEWCHAT1/2-82 | DEWCHAT1/2-90 | \$19.73 |
| 5/8" | 1/2" | 2-1/2" | DEWCHAT5/8-60 | DEWCHAT5/8-82 | DEWCHAT5/8-90 | \$29.02 |
| 3/4" | 1/2" | 2-3/4" | DEWCHAT3/4-60 | DEWCHAT3/4-82 | DEWCHAT3/4-90 | \$42.87 |
| 7/8" | 1/2" | 2-3/4" | DEWCHAT7/8-60 | DEWCHAT7/8-82 | DEWCHAT7/8-90 | \$52.11 |
| 1" | 1/2" | 2-3/4" | DEWCHAT1-60 | DEWCHAT1-82 | DEWCHAT1-90 | \$62.53 |
| 1-1/4" | 3/4" | 3-3/8" | DEWCHAT1-1/4-60 | DEWCHAT1-1/4-82 | DEWCHAT1-1/4-90 | \$100.03 |
| 1-1/2" | 3/4" | 3-1/2" | DEWCHAT1-1/2-60 | DEWCHAT1-1/2-82 | DEWCHAT1-1/2-90 | \$142.33 |
| 1-3/4" | 1" | 4-1/4" | DEWCHAT1-3/4-60 | DEWCHAT1-3/4-82 | DEWCHAT1-3/4-90 | \$198.60 |
| 2" | 1" | 4-3/8" | DEWCHAT2-60 | DEWCHAT2-82 | DEWCHAT2-90 | \$231.91 |



DEWCHAT Series

| Size | Shank | | 100° | 120° | List Price |
|--------|-------|--------|------------------|------------------|------------|
| | Dia. | O.A.L. | Part # | Part # | |
| 3/16" | 3/16" | 1-1/2" | DEWCHAT3/16-100 | DEWCHAT3/16-120 | \$15.83 |
| 1/4" | 1/4" | 2" | DEWCHAT1/4-100 | DEWCHAT1/4-120 | \$17.45 |
| 5/16" | 1/4" | 2" | DEWCHAT5/16-100 | DEWCHAT5/16-120 | \$25.89 |
| 3/8" | 1/4" | 2" | DEWCHAT3/8-100 | DEWCHAT3/8-120 | \$25.08 |
| 1/2" | 1/4" | 2" | DEWCHAT1/2-100 | DEWCHAT1/2-120 | \$31.99 |
| 5/8" | 1/2" | 2-1/2" | DEWCHAT5/8-100 | DEWCHAT5/8-120 | \$48.79 |
| 3/4" | 1/2" | 2-3/4" | DEWCHAT3/4-100 | DEWCHAT3/4-120 | \$63.02 |
| 7/8" | 1/2" | 2-3/4" | DEWCHAT7/8-100 | DEWCHAT7/8-120 | \$78.44 |
| 1" | 1/2" | 2-3/4" | DEWCHAT1-100 | DEWCHAT1-120 | \$90.84 |
| 1-1/4" | 3/4" | 3-3/8" | DEWCHAT1-1/4-100 | DEWCHAT1-1/4-120 | \$158.32 |
| 1-1/2" | 3/4" | 3-1/2" | DEWCHAT1-1/2-100 | DEWCHAT1-1/2-120 | \$223.72 |
| 2" | 1" | 4-3/8" | DEWCHAT2-100 | DEWCHAT2-120 | \$362.56 |

COUNTERSINKS

TSC Series - HSS

Countersink cutters may be used in all popular adjustable or micro-stop countersinking units utilizing a 1/4"-28 threaded shank drive. Made from the finest high speed tool steel. Precision ground to exacting tolerances and form relieved to insure concentricity of 100° countersink angle.

H S S T H R E A D E D S H A N K

| TSC Series | | 3/8 Body | | TSC Series | | 7/16 Body | | TSC Series | | 1/2 Body | |
|------------|-------------|-------------|------------|------------|-------------|--------------|------------|------------|-------------|--------------|------------|
| Pilot Size | Dec. Equiv. | Part Number | List Price | Pilot Size | Dec. Equiv. | Part Number | List Price | Pilot Size | Dec. Equiv. | Part Number | List Price |
| 40 | .0980 | TSC3/8-40 | \$17.19 | 40 | .0980 | TSC7/16-40 | \$17.19 | 3/32" | .0938 | TSC1/2-3/32 | \$17.19 |
| 30 | .1285 | TSC3/8-30 | \$17.19 | 1/8" | .1250 | TSC7/16-1/8 | \$17.19 | 40 | .0980 | TSC1/2-40 | \$17.19 |
| 27 | .1440 | TSC3/8-27 | \$17.19 | 30 | .1285 | TSC7/16-30 | \$17.19 | 1/8" | .1250 | TSC1/2-1/8 | \$17.19 |
| 26 | .1470 | TSC3/8-26 | \$17.19 | 27 | .1440 | TSC7/16-27 | \$17.19 | 30 | .1285 | TSC1/2-30 | \$17.19 |
| 5/32" | .1562 | TSC3/8-5/32 | \$17.19 | 5/32" | .1562 | TSC7/16-5/32 | \$17.19 | 27 | .1440 | TSC1/2-27 | \$17.19 |
| 22 | .1570 | TSC3/8-22 | \$17.19 | 21 | .1590 | TSC7/16-21 | \$17.19 | 5/32" | .1562 | TSC1/2-5/32 | \$17.19 |
| 21 | .1590 | TSC3/8-21 | \$17.19 | 19 | .1660 | TSC7/16-19 | \$17.19 | 21 | .1590 | TSC1/2-21 | \$17.19 |
| 20 | .1610 | TSC3/8-20 | \$17.19 | 3/16" | .1875 | TSC7/16-3/16 | \$17.19 | 20 | .1610 | TSC1/2-20 | \$17.19 |
| 19 | .1660 | TSC3/8-19 | \$17.19 | 12 | .1890 | TSC7/16-12 | \$17.19 | 16 | .1770 | TSC1/2-16 | \$17.19 |
| 16 | .1770 | TSC3/8-16 | \$17.19 | 11 | .1910 | TSC7/16-11 | \$17.19 | 13 | .1850 | TSC1/2-13 | \$17.19 |
| 13 | .1850 | TSC3/8-13 | \$17.19 | 10 | .1935 | TSC7/16-10 | \$17.19 | 3/16" | .1875 | TSC1/2-3/16 | \$17.19 |
| 3/16" | .1875 | TSC3/8-3/16 | \$17.19 | 1/4" | .2500 | TSC7/16-1/4 | \$17.19 | 12 | .1890 | TSC1/2-12 | \$17.19 |
| 12 | .1890 | TSC3/8-12 | \$17.19 | 5/16" | .3125 | TSC7/16-5/16 | \$17.19 | 11 | .1910 | TSC1/2-11 | \$17.19 |
| 11 | .1910 | TSC3/8-11 | \$17.19 | | | | | 10 | .1935 | TSC1/2-10 | \$17.19 |
| 10 | .1935 | TSC3/8-10 | \$17.19 | | | | | 8 | .1990 | TSC1/2-8 | \$17.19 |
| 8 | .1990 | TSC3/8-8 | \$17.19 | | | | | 7 | .2010 | TSC1/2-7 | \$17.19 |
| 7 | .2010 | TSC3/8-7 | \$17.19 | | | | | 13/64" | .2031 | TSC1/2-13/64 | \$17.19 |
| 6 | .2040 | TSC3/8-6 | \$17.19 | | | | | 6 | .2040 | TSC1/2-6 | \$17.19 |
| 1/4" | .2500 | TSC3/8-1/4 | \$17.19 | | | | | 5 | .2055 | TSC1/2-5 | \$17.19 |
| 5/16" | .3125 | TSC3/8-5/16 | \$17.19 | | | | | 4 | .2090 | TSC1/2-4 | \$17.19 |
| | | | | | | | | 3 | .2130 | TSC1/2-3 | \$17.19 |
| | | | | | | | | 7/32" | .2188 | TSC1/2-7/32 | \$17.19 |
| | | | | | | | | A | .2340 | TSC1/2-A | \$17.19 |
| | | | | | | | | D | .2460 | TSC1/2-D | \$17.19 |
| | | | | | | | | 1/4" | .2500 | TSC1/2-1/4 | \$17.19 |
| | | | | | | | | G | .2610 | TSC1/2-G | \$17.19 |
| | | | | | | | | J | .2770 | TSC1/2-J | \$17.19 |
| | | | | | | | | 9/32" | .2812 | TSC1/2-9/32 | \$17.19 |
| | | | | | | | | N | .3020 | TSC1/2-N | \$17.19 |
| | | | | | | | | O | .3090 | TSC1/2-O | \$17.19 |
| | | | | | | | | 5/16" | .3125 | TSC1/2-5/16 | \$17.19 |
| | | | | | | | | P | .3230 | TSC1/2-P | \$17.19 |
| | | | | | | | | R | .3390 | TSC1/2-R | \$17.19 |
| | | | | | | | | 3/8" | .3750 | TSC1/2-3/8 | \$17.19 |



| TSC Series | | 5/8 Body | |
|------------|-------------|-------------|------------|
| Pilot Size | Dec. Equiv. | Part Number | List Price |
| 40 | .0980 | TSC5/8-40 | \$27.70 |
| 30 | .1285 | TSC5/8-30 | \$27.70 |
| 21 | .1590 | TSC5/8-21 | \$27.70 |
| 13 | .1850 | TSC5/8-13 | \$27.70 |
| 3/16" | .1875 | TSC5/8-3/16 | \$27.70 |
| 10 | .1935 | TSC5/8-10 | \$27.70 |
| D | .2460 | TSC5/8-D | \$27.70 |
| 1/4" | .2500 | TSC5/8-1/4 | \$27.70 |
| G | .2610 | TSC5/8-G | \$27.70 |
| .309 | .3090 | TSC5/8-.309 | \$27.70 |

*Additional sizes available upon request

HOLLOW CUTTERS

These one piece cutters are used for collar removal on Hi-Shear fasteners. They come with a 1/4"-28" shank.

| TSC Series | | | | | |
|---------------|------|-------|---------------|-------------|------------|
| Fastener Size | D | A | Fastener Type | Part Number | List Price |
| 1/8" | .365 | .1240 | Hi-Shear | TSC1/8HC | \$22.25 |
| 5/32" | .365 | .1570 | Hi-Shear | TSC5/32HC | \$22.25 |
| 3/16" | .438 | .1875 | Hi-Shear | TSC3/16HC | \$22.25 |
| 1/4" | .500 | .2470 | Hi-Shear | TSC1/4HC | \$22.25 |
| 5/16" | .562 | .3100 | Hi-Shear | TSC5/16HC | \$22.25 |
| 3/8" | .625 | .3730 | Hi-Shear | TSC3/8HC | \$22.25 |
| 7/16" | .750 | .4340 | Hi-Shear | TSC7/16HC | \$25.95 |



COMBINED DRILL & C'SINKS

DEWCCD Series -

60° - Used for producing center holes in work pieces which require machining between centers.

| DEWCCD Series | | H S S | | | | |
|---------------|-----------|------------|--------------|--------|-------------|------------|
| Size | Body Dia. | Point Dia. | Point Length | O.A.L. | Part Number | List Price |
| 3-0 | 1/8" | 0.020 | 0.020 | 1-1/4" | DEWCCD000 | \$6.60 |
| 2-0 | 1/8" | 0.025 | 0.025 | 1-1/4" | DEWCCD00 | \$4.35 |
| 0 | 1/8" | 1/32" | 1/32" | 1-1/4" | DEWCCD0 | \$4.35 |
| 1 | 1/8" | 3/64" | 3/64" | 1-1/4" | DEWCCD1 | \$3.52 |
| 2 | 3/16" | 5/64" | 5/64" | 1-7/8" | DEWCCD2 | \$3.52 |
| 3 | 1/4" | 7/64" | 7/64" | 2" | DEWCCD3 | \$3.52 |
| 4 | 5/16" | 1/8" | 1/8" | 2-1/8" | DEWCCD4 | \$3.52 |
| 5 | 7/16" | 3/16" | 3/16" | 2-3/4" | DEWCCD5 | \$5.71 |
| 6 | 1/2" | 7/32" | 7/32" | 2-3/4" | DEWCCD6 | \$8.51 |
| 7 | 5/8" | 1/4" | 1/4" | 3-1/4" | DEWCCD7 | \$11.39 |
| 8 | 3/4" | 5/16" | 5/16" | 3-1/2" | DEWCCD8 | \$15.53 |
| | | | #1-5 | Set | DEWCCDS1-5 | \$19.82 |
| | | | #1-6 | Set | DEWCCDS1-6 | \$28.09 |



H S S L O N G

| DEW Series | | Part Number | List Price |
|------------|--------|-------------|------------|
| Size | O.A.L. | | |
| 1 | 3" | DEW1X3 | \$16.31 |
| 1 | 4" | DEW1X4 | \$17.02 |
| 1 | 5" | DEW1X5 | \$23.69 |
| 1 | 6" | DEW1X6 | \$30.98 |
| 2 | 4" | DEW2X4 | \$18.66 |
| 2 | 5" | DEW2X5 | \$23.69 |
| 2 | 6" | DEW2X6 | \$30.98 |
| 3 | 4" | DEW3X4 | \$19.61 |
| 3 | 5" | DEW3X5 | \$25.87 |
| 3 | 6" | DEW3X6 | \$31.36 |
| 4 | 4" | DEW4X4 | \$21.60 |
| 4 | 5" | DEW4X5 | \$27.57 |
| 4 | 6" | DEW4X6 | \$31.93 |
| 5 | 4" | DEW5X4 | \$27.57 |
| 5 | 5" | DEW5X5 | \$31.88 |
| 5 | 6" | DEW5X6 | \$35.58 |
| 6 | 5" | DEW6X5 | \$33.64 |
| 6 | 6" | DEW6X6 | \$40.60 |
| 7 | 6" | DEW7X6 | \$73.86 |
| 8 | 6" | DEW8X6 | \$81.17 |



| DMOCCD Series | | S O L I D C A R B I D E | | | |
|---------------|-----------|-------------------------|--------|-------------|------------|
| Size | Body Dia. | Drill Dia. | O.A.L. | Part Number | List Price |
| 0 | 1/32" | 1/8" | 1-1/4" | DMOCCD0-60 | \$38.03 |
| 1 | 3/64" | 1/8" | 1-1/4" | DMOCCD1-60 | \$31.68 |
| 2 | 5/64" | 3/16" | 1-7/8" | DMOCCD2-60 | \$39.76 |
| 3 | 7/64" | 1/4" | 2" | DMOCCD3-60 | \$50.09 |
| 4 | 1/8" | 5/16" | 2-1/8" | DMOCCD4-60 | \$68.35 |
| 5 | 3/16" | 7/16" | 2-3/4" | DMOCCD5-60 | \$100.49 |
| 6 | 7/32" | 1/2" | 3" | DMOCCD6-60 | \$138.28 |



SCREW EXTRACTORS

DEWEZ Spiral Flute Screw Extractors

Screw extractors are used expressly for removing broken or seized screws



DEWEZ Series

| Size | Bolt Size | Pipe Size | Small End | Large End | Flute Length | Drill Size | O.A.L. | Part Number | List Price |
|------|---------------|-----------|-----------|-----------|--------------|------------|----------|-------------|------------|
| 1 | 3/16" | - | 1/16" | 1/8" | 1/2" | 5/64" | 2" | DEWEZ1 | \$2.42 |
| 2 | 1/4" | - | 3/32" | 13/64" | 7/8" | 7/64" | 2-3/8" | DEWEZ2 | \$2.60 |
| 3 | 5/16" | - | 1/8" | 1/4" | 1" | 5/32" | 2-11/16" | DEWEZ3 | \$3.20 |
| 4 | 7/16" | - | 3/16" | 11/32" | 1-1/4" | 1/4" | 3" | DEWEZ4 | \$3.35 |
| 5 | 9/16"-3/4" | 1/8"-1/4" | 1/4" | 7/16" | 1-1/2" | 17/64" | 3-3/8" | DEWEZ5 | \$4.18 |
| 6 | 3/4"-1" | 3/8" | 3/8" | 19/32" | 1-3/4" | 13/32" | 3-3/4" | DEWEZ6 | \$9.34 |
| 7 | 1"-1-3/8" | 1/2" | 1/2" | 25/32" | 2-1/4" | 17/32" | 4-1/8" | DEWEZ7 | \$15.02 |
| 8 | 1-3/8"-1-3/4" | 3/4" | 3/4" | 1-1/32" | 2-1/4" | 13/16" | 4-3/8" | DEWEZ8 | \$20.47 |
| 9 | 1-3/4"-2-1/8" | 1" | 1" | 1-9/32" | 2-1/4" | 1-1/16" | 4-5/8" | DEWEZ9 | \$35.64 |
| 10 | 2-1/8"-2-1/2" | 1-1/4" | 1-1/4" | 1-9/16" | 2-1/2" | 1-5/16" | 5" | DEWEZ10 | \$53.68 |
| 11 | 2-1/2"-3" | 1-1/2" | 1-1/2" | 1-7/8" | 3" | 1-9/16" | 5-5/8" | DEWEZ11 | \$80.49 |
| 12 | 3"-3-1/2" | 2" | 1-27/32" | 2-5/16" | 3-1/2" | 1-15/16" | 6-1/4" | DEWEZ12 | \$130.12 |

DEWEZSF Straight Flute Screw Extractors

Straight flute screw extractors are designed for removing broken material such as bolts and screws in softer materials. The straight flute will not enlarge material being removed.

DEWEZSF Series

| Size | Bolt Size | Pipe Size | Drill Size | O.A.L. | Part Number | List Price |
|------|------------|-----------|------------|--------|-------------|------------|
| 1 | 3/16" | - | 9/64" | 2-1/2" | DEWEZSF1 | \$2.46 |
| 2 | 1/4" | - | 3/16" | 2-5/8" | DEWEZSF2 | \$2.46 |
| 3 | 5/16" | - | 15/64" | 3-1/8" | DEWEZSF3 | \$2.46 |
| 4 | 7/16" | - | 5/16" | 4" | DEWEZSF4 | \$2.46 |
| 5 | 9/16"-3/4" | 1/8"-1/4" | 3/8" | 4-7/8" | DEWEZSF5 | \$2.46 |
| 6 | 3/4"-1" | 3/8" | 15/32" | 5-3/8" | DEWEZSF6 | \$9.51 |



POUEZ Spiral Flute Screw Extractor and Drill Bit Kit

POUEZSF Straight Flute Screw Extractor and Drill Bit Kit

POUEZ Series

POUEZSF Series

| Size | Part Number | Drill Size | List Price | Part Number | Drill Size | List Price |
|------|-------------|------------|------------|-------------|------------|------------|
| 1 | POUEZ1 | 5/64" | \$6.60 | POUEZSF1 | 9/64" | \$7.69 |
| 2 | POUEZ2 | 7/64" | \$7.11 | POUEZSF2 | 3/16" | \$9.65 |
| 3 | POUEZ3 | 5/32" | \$8.43 | POUEZSF3 | 15/64" | \$12.35 |
| 4 | POUEZ4 | 1/4" | \$12.39 | POUEZSF4 | 5/16" | \$15.01 |
| 5 | POUEZ5 | 17/64" | \$13.73 | POUEZSF5 | 3/8" | \$21.30 |
| 6 | POUEZ6 | 13/32" | \$29.17 | POUEZSF6 | 15/32" | \$40.57 |



DEWEZ Series Spiral Flute Screw Extractor Sets

DEWEZ Series

| Size Range | Part Number | List Price |
|------------|----------------|------------|
| 1-5 | DEWEZS1-5 | \$17.27 |
| 1-6 | DEWEZS1-6 | \$28.34 |
| 6-9 | DEWEZS6-9 | \$87.41 |
| *1-5 | DEWEZS1-5W/DRL | \$35.73 |
| *1-6 | DEWEZS1-6W/DRL | \$49.92 |
| 1-9 | DEWEZS1-9 | \$103.07 |

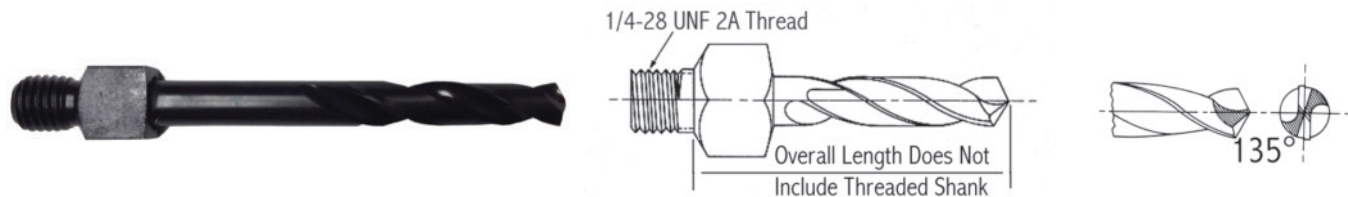


*Set Includes corresponding drills

THREADED SHANK DRILLS

TSD Series

Type "D" adapter drills are made from **M42 8% cobalt high speed steel** and are manufactured to NAS 965 Type "D" specifications with 135° heavy duty split point and surface treated for drilling hard, tough, high tensile strength materials. When drilling low tensile strength materials, the Type "D" cobalt drill will have significantly greater tool life than the NAS 965 Type "B", high speed steel adapter drill, resulting in a much lower cost per hole.



W I R E G A U G E S I Z E S

| TSD Series | | | Stubby Series | | | Short Series | | | Long Series | | |
|------------|-------------|---------------|---------------|--------|------------|--------------|--------|------------|-------------|--------|------------|
| Size | Dec. Equiv. | Metric Equiv. | Part Number | O.A.L. | List Price | Part Number | O.A.L. | List Price | Part Number | O.A.L. | List Price |
| 1 | .2280 | 5.79mm | TSD1ST | 5/8" | \$9.29 | TSD1S | 1-1/4" | \$9.28 | TSD1L | 2-1/8" | \$9.16 |
| 2 | .2210 | 5.61mm | TSD2ST | 5/8" | \$8.76 | TSD2S | 1-1/4" | \$8.26 | TSD2L | 2-1/8" | \$8.51 |
| 3 | .2130 | 5.41mm | TSD3ST | 5/8" | \$8.71 | TSD3S | 1-1/4" | \$7.25 | TSD3L | 2-1/8" | \$7.64 |
| 4 | .2090 | 5.31mm | TSD4ST | 5/8" | \$7.92 | TSD4S | 1-1/4" | \$7.47 | TSD4L | 2-1/8" | \$7.88 |
| 5 | .2055 | 5.22mm | TSD5ST | 5/8" | \$7.92 | TSD5S | 1-1/4" | \$7.47 | TSD5L | 2-1/8" | \$7.88 |
| 6 | .2040 | 5.18mm | TSD6ST | 5/8" | \$8.66 | TSD6S | 1-1/4" | \$7.72 | TSD6L | 2-1/8" | \$7.97 |
| 7 | .2010 | 5.11mm | TSD7ST | 5/8" | \$7.32 | TSD7S | 1-1/4" | \$6.83 | TSD7L | 2-1/8" | \$7.08 |
| 8 | .1990 | 5.06mm | TSD8ST | 5/8" | \$7.03 | TSD8S | 1-1/4" | \$5.91 | TSD8L | 2-1/8" | \$6.92 |
| 9 | .1960 | 4.98mm | TSD9ST | 5/8" | \$7.32 | TSD9S | 1-1/4" | \$6.83 | TSD9L | 2-1/8" | \$9.03 |
| 10 | .1935 | 4.92mm | TSD10ST | 5/8" | \$7.18 | TSD10S | 1-1/4" | \$6.23 | TSD10L | 2-1/8" | \$6.53 |
| 11 | .1910 | 4.85mm | TSD11ST | 5/8" | \$6.97 | TSD11S | 1-1/4" | \$6.56 | TSD11L | 2-1/8" | \$6.93 |
| 12 | .1890 | 4.80mm | TSD12ST | 5/8" | \$7.03 | TSD12S | 1-1/4" | \$6.72 | TSD12L | 2-1/8" | \$6.93 |
| 13 | .1850 | 4.70mm | TSD13ST | 5/8" | \$6.60 | TSD13S | 1-1/4" | \$6.60 | TSD13L | 2-1/8" | \$6.54 |
| 14 | .1820 | 4.62mm | TSD14ST | 5/8" | \$7.67 | TSD14S | 1-1/4" | \$7.42 | TSD14L | 2-1/8" | \$7.55 |
| 15 | .1800 | 4.57mm | TSD15ST | 5/8" | \$7.67 | TSD15S | 1-1/4" | \$7.42 | TSD15L | 2-1/8" | \$9.64 |
| 16 | .1770 | 4.50mm | TSD16ST | 5/8" | \$6.56 | TSD16S | 1-1/4" | \$6.12 | TSD16L | 2-1/8" | \$6.46 |
| 17 | .1730 | 4.39mm | TSD17ST | 5/8" | \$6.51 | TSD17S | 1-1/4" | \$6.04 | TSD17L | 2-1/8" | \$8.48 |
| 18 | .1695 | 4.30mm | TSD18ST | 5/8" | \$7.30 | TSD18S | 1-1/4" | \$5.97 | TSD18L | 2-1/8" | \$7.35 |
| 19 | .1660 | 4.22mm | TSD19ST | 5/8" | \$6.14 | TSD19S | 1-1/4" | \$5.30 | TSD19L | 2-1/8" | \$6.12 |
| 20 | .1610 | 4.09mm | TSD20ST | 5/8" | \$5.69 | TSD20S | 1-1/4" | \$5.30 | TSD20L | 2-1/8" | \$5.67 |
| 21 | .1590 | 4.04mm | TSD21ST | 5/8" | \$6.51 | TSD21S | 1-1/4" | \$5.30 | TSD21L | 2-1/8" | \$5.67 |
| 22 | .1570 | 3.99mm | TSD22ST | 5/8" | \$7.92 | TSD22S | 1-1/4" | \$5.94 | TSD22L | 2-1/8" | \$7.32 |
| 23 | .1540 | 3.91mm | TSD23ST | 5/8" | \$7.92 | TSD23S | 1-1/4" | \$5.93 | TSD23L | 2-1/8" | \$8.08 |
| 24 | .1520 | 3.86mm | TSD24ST | 5/8" | \$8.42 | TSD24S | 1-1/4" | \$5.94 | TSD24L | 2-1/8" | \$8.05 |
| 25 | .1495 | 3.80mm | TSD25ST | 5/8" | \$8.42 | TSD25S | 1-1/4" | \$7.18 | TSD25L | 2-1/8" | \$8.05 |
| 26 | .1470 | 3.73mm | TSD26ST | 9/16" | \$7.05 | TSD26S | 1-1/4" | \$7.18 | TSD26L | 2-1/8" | \$7.30 |
| 27 | .1440 | 3.66mm | TSD27ST | 9/16" | \$5.46 | TSD27S | 1-1/4" | \$5.40 | TSD27L | 2-1/8" | \$5.17 |
| 28 | .1405 | 3.57mm | TSD28ST | 9/16" | \$7.95 | TSD28S | 1-1/4" | \$7.18 | TSD28L | 2-1/8" | \$7.30 |
| 29 | .1360 | 3.45mm | TSD29ST | 9/16" | \$7.95 | TSD29S | 1-1/4" | \$7.19 | TSD29L | 2-1/8" | \$6.16 |
| 30 | .1285 | 3.26mm | TSD30ST | 9/16" | \$5.54 | TSD30S | 1-1/4" | \$4.65 | TSD30L | 2-1/8" | \$4.78 |
| 31 | .1200 | 3.05mm | TSD31ST | 9/16" | \$7.42 | TSD31S | 1-1/4" | \$5.33 | TSD31L | 2-1/8" | \$5.46 |
| 32 | .1160 | 2.95mm | TSD32ST | 9/16" | \$8.53 | TSD32S | 1-1/4" | \$6.56 | TSD32L | 2-1/8" | \$6.96 |
| 33 | .1130 | 2.87mm | TSD33ST | 9/16" | \$7.95 | TSD33S | 1-1/4" | \$7.05 | TSD33L | 2-1/8" | \$6.96 |
| 34 | .1110 | 2.82mm | TSD34ST | 9/16" | \$7.95 | TSD34S | 1-1/4" | \$6.56 | TSD34L | 2-1/8" | \$6.96 |
| 35 | .1100 | 2.79mm | TSD35ST | 9/16" | \$7.95 | TSD35S | 1-1/4" | \$7.05 | TSD35L | 2-1/8" | \$6.96 |
| 36 | .1065 | 2.71mm | TSD36ST | 9/16" | \$7.95 | TSD36S | 1-1/4" | \$6.56 | TSD36L | 2-1/8" | \$6.96 |
| 37 | .1040 | 2.64mm | TSD37ST | 9/16" | \$7.18 | TSD37S | 1-1/4" | \$6.56 | TSD37L | 2-1/8" | \$6.96 |
| 38 | .1015 | 2.58mm | TSD38ST | 9/16" | \$7.95 | TSD38S | 1-1/4" | \$6.96 | TSD38L | 2-1/8" | \$6.56 |
| 39 | .0995 | 2.53mm | TSD39ST | 9/16" | \$7.95 | TSD39S | 1-1/4" | \$6.96 | TSD39L | 2-1/8" | \$6.56 |
| 40 | .0980 | 2.49mm | TSD40ST | 1/2" | \$5.10 | TSD40S | 1" | \$4.04 | TSD40L | 2-1/8" | \$4.28 |
| 41 | .0960 | 2.44mm | TSD41ST | 1/2" | \$5.97 | TSD41S | 1" | \$6.06 | TSD41L | 2-1/8" | \$6.46 |
| 42 | .0935 | 2.37mm | TSD42ST | 1/2" | \$8.34 | TSD42S | 1" | \$6.06 | TSD42L | 2-1/8" | \$6.46 |
| 43 | .0890 | 2.26mm | TSD43ST | 1/2" | \$7.50 | TSD43S | 1" | \$6.06 | TSD43L | 2-1/8" | \$6.46 |
| 44 | .0860 | 2.18mm | TSD44ST | 1/2" | \$7.50 | TSD44S | 1" | \$6.06 | TSD44L | 2-1/8" | \$6.46 |
| 45 | .0820 | 2.08mm | TSD45ST | 1/2" | \$7.50 | TSD45S | 1" | \$6.06 | TSD45L | 2-1/8" | \$6.46 |
| 46 | .0810 | 2.06mm | TSD46ST | 1/2" | \$7.50 | TSD46S | 1" | \$6.06 | TSD46L | 2-1/8" | \$6.46 |
| 47 | .0785 | 1.99mm | TSD47ST | 1/2" | \$7.50 | TSD47S | 1" | \$6.78 | TSD47L | 2-1/8" | \$6.46 |
| 48 | .0760 | 1.93mm | TSD48ST | 1/2" | \$7.50 | TSD48S | 1" | \$6.06 | TSD48L | 2-1/8" | \$6.46 |
| 49 | .0730 | 1.85mm | TSD49ST | 1/2" | \$7.50 | TSD49S | 1" | \$6.78 | TSD49L | 2-1/8" | \$6.46 |
| 50 | .0700 | 1.78mm | TSD50ST | 1/2" | \$5.88 | TSD50S | 1" | \$5.15 | TSD50L | 2-1/8" | \$5.40 |

THREADED SHANK DRILLS

FRACTIONAL SIZES

| TSD Series | | | Stubby Series | | | Short Series | | | Long Series | | |
|------------|-------------|---------------|---------------|--------|------------|--------------|--------|------------|-------------|--------|------------|
| Size | Dec. Equiv. | Metric Equiv. | Part Number | O.A.L. | List Price | Part Number | O.A.L. | List Price | Part Number | O.A.L. | List Price |
| 1/8" | .1250 | 3.17mm | TSD1/8ST | 1/2" | \$6.29 | TSD1/8S | 1" | \$5.79 | TSD1/8L | 2-1/8" | \$6.04 |
| 5/32" | .1562 | 3.97mm | TSD5/32ST | 9/16" | \$6.34 | TSD5/32S | 1-1/4" | \$5.85 | TSD5/32L | 2-1/8" | \$6.10 |
| 3/16" | .1875 | 4.76mm | TSD3/16ST | 9/16" | \$7.03 | TSD3/16S | 1-1/4" | \$6.53 | TSD3/16L | 2-1/8" | \$6.77 |
| 7/32" | .2188 | 5.56mm | TSD7/32ST | 5/8" | \$7.87 | TSD7/32S | 1-1/4" | \$7.38 | TSD7/32L | 2-1/8" | \$8.33 |
| 1/4" | .2500 | 6.35mm | TSD1/4ST | 5/8" | \$8.61 | TSD1/4S | 1-1/4" | \$7.53 | TSD1/4L | 2-1/8" | \$7.36 |
| 5/16" | .3125 | 7.94mm | TSD5/16ST | 5/8" | \$13.98 | TSD5/16S | 1-1/4" | \$13.17 | TSD5/16L | 2-1/8" | \$15.04 |
| 3/8" | .3750 | 9.52mm | TSD3/8ST | 3/4" | \$15.52 | TSD3/8S | 1-1/4" | \$15.52 | TSD3/8L | 2-1/8" | \$15.52 |

LETTER SIZES

| TSD Series | | | Stubby Series | | | Short Series | | | Long Series | | |
|------------|-------------|---------------|---------------|--------|------------|--------------|--------|------------|-------------|--------|------------|
| Size | Dec. Equiv. | Metric Equiv. | Part Number | O.A.L. | List Price | Part Number | O.A.L. | List Price | Part Number | O.A.L. | List Price |
| C | .2420 | 6.15mm | TSDCST | 5/8" | \$9.28 | TSDCS | 1-1/4" | \$8.66 | TSDCL | 2-1/8" | \$9.90 |
| D | .2460 | 6.25mm | TSDDST | 5/8" | \$8.61 | TSDDS | 1-1/4" | \$7.81 | TSDDL | 2-1/8" | \$8.68 |
| F | .2570 | 6.53mm | TSDFST | 5/8" | \$8.94 | TSDFS | 1-1/4" | \$7.82 | TSDFL | 2-1/8" | \$9.01 |
| G | .2610 | 6.63mm | TSDGST | 5/8" | \$9.77 | TSDGS | 1-1/4" | \$8.15 | TSDGL | 2-1/8" | \$9.25 |
| H | .2660 | 6.75mm | TSDHST | 5/8" | \$10.39 | TSDHS | 1-1/4" | \$9.40 | TSDHL | 2-1/8" | \$13.33 |
| J | .2770 | 7.03mm | TSDJST | 5/8" | \$10.39 | TSDJS | 1-1/4" | \$9.79 | TSDJL | 2-1/8" | \$13.33 |
| K | .2810 | 7.14mm | TSDKST | 5/8" | \$10.39 | TSDKS | 1-1/4" | \$9.79 | TSDKL | 2-1/8" | \$13.39 |
| L | .2900 | 7.37mm | TSDLST | 5/8" | \$10.39 | TSDLS | 1-1/4" | \$11.03 | TSDLL | 2-1/8" | \$15.73 |
| M | .2950 | 7.49mm | TSDMST | 5/8" | \$10.39 | TSDMS | 1-1/4" | \$11.03 | TSDML | 2-1/8" | \$15.73 |
| N | .3020 | 7.67mm | TSDNST | 5/8" | \$10.39 | TSDNS | 1-1/4" | \$11.03 | TSDNL | 2-1/8" | \$15.73 |
| O | .3160 | 8.03mm | TSDOST | 5/8" | \$11.50 | TSDOS | 1-1/4" | \$11.03 | TSDOL | 2-1/8" | \$15.73 |

SPECIAL LENGTHS

| TSD Series | | | Very Stubby Series | | | Extra Long Series | | |
|------------|-------------|---------------|--------------------|--------|------------|-------------------|--------|------------|
| Size | Dec. Equiv. | Metric Equiv. | Part Number | O.A.L. | List Price | Part Number | O.A.L. | List Price |
| 40 | .0980 | 2.49mm | TSD40VS | 3/8" | \$5.33 | TSD40EL | 2-1/2" | \$6.06 |
| 30 | .1285 | 3.26mm | TSD30VS | 3/8" | \$5.69 | TSD30EL | 2-3/4" | \$6.31 |
| 27 | .1440 | 3.66mm | TSD27VS | 3/8" | \$5.81 | TSD27EL | 3" | \$6.81 |
| 21 | .1590 | 4.04mm | TSD21VS | 3/8" | \$6.81 | TSD21EL | 3" | \$6.93 |
| 20 | .1610 | 4.09mm | TSD20VS | 3/8" | \$6.81 | TSD20EL | 3" | \$7.05 |
| 16 | .1770 | 4.50mm | TSD16VS | 3/8" | \$6.81 | TSD16EL | 3" | \$7.79 |
| 13 | .1850 | 4.70mm | TSD13VS | 3/8" | \$6.81 | TSD13EL | 3" | \$7.92 |
| 12 | .1890 | 4.80mm | TSD12VS | 3/8" | \$7.05 | TSD12EL | 3" | \$8.42 |
| 11 | .1910 | 4.85mm | TSD11VS | 3/8" | \$7.05 | TSD11EL | 3" | \$8.42 |
| 10 | .1935 | 4.92mm | TSD10VS | 3/8" | \$7.30 | TSD10EL | 3" | \$7.67 |
| 8 | .1990 | 5.06mm | TSD8VS | 3/8" | \$8.66 | TSD8EL | 3" | \$8.66 |
| 5 | .2055 | 5.22mm | TSD5VS | 3/8" | \$8.29 | TSD5EL | 3" | \$8.16 |
| 1/4" | .2500 | 6.35mm | TSD1/4VS | 3/8" | \$9.03 | TSD1/4EL | 3" | \$8.66 |



AIRCRAFT TAPER ROUTERS

D/ATR Series

High Speed Steel Aircraft Taper Routers are designed for use in clearance cutting or routing, and are furnished with a right hand helix and right hand cut.



| D/ATR Series | | | | | | |
|--------------|----------------|------------|--------------|--------|-------------|------------|
| Size | Small End Dia. | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
| 1 | .0810 | .0980 | 13/16" | 2" | D/ATR-1 | \$6.54 |
| 2 | .1100 | .1280 | 7/8" | 2-1/4" | D/ATR-2 | \$6.73 |
| 3 | .1650 | .1875 | 1-1/16" | 2-1/2" | D/ATR-3 | \$11.30 |
| 4 | .2240 | .2500 | 1-1/4" | 2-3/4" | D/ATR-4 | \$13.75 |

CHUCKING REAMERS

DWRR Series - HSS Straight Shank Straight Flute

DWRRSP Series - HSS Straight Shank Spiral Flute

Chuckling Reamers are designed for accurate reaming in most materials using all types of equipment including screw machines, turret lathes, drill presses, and machining centers. They are regularly pointed with a 45 chamfer. The straight-flute design is recommended for most general purpose reaming. The right-hand spiral-flute reamer has the smooth, chatter-free action necessary for fine finishes. It is recommended over the straight-flute for more difficult materials, better surface requirements, and applications with interruption such as a keyway or cross hole.

F R A C T I O N A L S I Z E S

| | | | | DWRR Series | | DWRRSP Series | |
|--------|-------------|--------------|--------|-------------|------------|---------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 3/64" | .0469 | 1/2" | 2-1/2" | DWRR3/64 | \$15.60 | - | - |
| 1/16" | .0625 | 1/2" | 2-1/2" | DWRR1/16 | \$14.22 | DWRRSP1/16 | \$15.17 |
| 5/64" | .0781 | 3/4" | 3" | DWRR5/64 | \$13.12 | DWRRSP5/64 | \$15.17 |
| 3/32" | .0938 | 3/4" | 3" | DWRR3/32 | \$11.25 | DWRRSP3/32 | \$13.41 |
| 7/64" | .1094 | 7/8" | 3-1/2" | DWRR7/64 | \$13.12 | DWRRSP7/64 | \$15.17 |
| 1/8" | .1250 | 7/8" | 3-1/2" | DWRR1/8 | \$14.51 | DWRRSP1/8 | \$18.46 |
| 9/64" | .1406 | 1" | 4" | DWRR9/64 | \$14.63 | DWRRSP9/64 | \$16.55 |
| 5/32" | .1562 | 1" | 4" | DWRR5/32 | \$14.63 | DWRRSP5/32 | \$16.55 |
| 11/64" | .1719 | 1-1/8" | 4-1/2" | DWRR11/64 | \$16.05 | DWRRSP11/64 | \$16.55 |
| 3/16" | .1875 | 1-1/8" | 4-1/2" | DWRR3/16 | \$16.05 | DWRRSP3/16 | \$18.10 |
| 13/64" | .2031 | 1-1/4" | 5" | DWRR13/64 | \$17.43 | DWRRSP13/64 | \$19.22 |
| 7/32" | .2188 | 1-1/4" | 5" | DWRR7/32 | \$17.43 | DWRRSP7/32 | \$19.22 |
| 15/64" | .2344 | 1-1/2" | 6" | DWRR15/64 | \$18.59 | DWRRSP15/64 | \$20.64 |
| 1/4" | .2500 | 1-1/2" | 6" | DWRR1/4 | \$18.59 | DWRRSP1/4 | \$20.64 |
| 17/64" | .2656 | 1-1/2" | 6" | DWRR17/64 | \$19.97 | DWRRSP17/64 | \$22.14 |
| 9/32" | .2812 | 1-1/2" | 6" | DWRR9/32 | \$19.97 | DWRRSP9/32 | \$22.14 |
| 19/64" | .2969 | 1-1/2" | 6" | DWRR19/64 | \$19.97 | DWRRSP19/64 | \$22.14 |
| 5/16" | .3125 | 1-1/2" | 6" | DWRR5/16 | \$19.97 | DWRRSP5/16 | \$22.14 |
| 21/64" | .3281 | 1-1/2" | 6" | DWRR21/64 | \$21.38 | DWRRSP21/64 | \$24.71 |
| 11/32" | .3438 | 1-1/2" | 6" | DWRR11/32 | \$21.38 | DWRRSP11/32 | \$24.71 |
| 23/64" | .3594 | 1-3/4" | 7" | DWRR23/64 | \$23.80 | DWRRSP23/64 | \$27.39 |
| 3/8" | .3750 | 1-3/4" | 7" | DWRR3/8 | \$23.80 | DWRRSP3/8 | \$27.39 |
| 25/64" | .3906 | 1-3/4" | 7" | DWRR25/64 | \$23.80 | DWRRSP25/64 | \$27.39 |
| 13/32" | .4062 | 1-3/4" | 7" | DWRR13/32 | \$23.80 | DWRRSP13/32 | \$27.39 |
| 27/64" | .4219 | 1-3/4" | 7" | DWRR27/64 | \$23.80 | DWRRSP27/64 | \$27.39 |
| 7/16" | .4375 | 1-3/4" | 7" | DWRR7/16 | \$23.80 | DWRRSP7/16 | \$27.39 |
| 29/64" | .4531 | 1-3/4" | 7" | DWRR29/64 | \$27.23 | DWRRSP29/64 | \$30.30 |
| 15/32" | .4688 | 1-3/4" | 7" | DWRR15/32 | \$26.35 | DWRRSP15/32 | \$30.30 |
| 31/64" | .4844 | 2" | 8" | DWRR31/64 | \$31.72 | DWRRSP31/64 | \$36.94 |
| 1/2" | .5000 | 2" | 8" | DWRR1/2 | \$31.72 | DWRRSP1/2 | \$36.94 |
| 33/64" | .5156 | 2" | 8" | DWRR33/64 | \$34.03 | DWRRSP33/64 | \$37.96 |
| 17/32" | .5312 | 2" | 8" | DWRR17/32 | \$34.03 | DWRRSP17/32 | \$37.96 |
| 35/64" | .5469 | 2" | 8" | DWRR35/64 | \$34.03 | DWRRSP35/64 | \$42.12 |
| 9/16" | .5625 | 2" | 8" | DWRR9/16 | \$34.03 | DWRRSP9/16 | \$42.12 |
| 37/64" | .5781 | 2" | 8" | DWRR37/64 | \$36.51 | DWRRSP37/64 | \$42.12 |
| 19/32" | .5938 | 2" | 8" | DWRR19/32 | \$36.51 | DWRRSP19/32 | \$42.12 |
| 39/64" | .6094 | 2" | 8" | DWRR39/64 | \$39.37 | DWRRSP39/64 | \$47.89 |
| 5/8" | .6250 | 2-1/4" | 9" | DWRR5/8 | \$39.37 | DWRRSP5/8 | \$47.89 |
| 41/64" | .6406 | 2-1/4" | 9" | DWRR41/64 | \$42.00 | DWRRSP41/64 | \$47.89 |
| 21/32" | .6562 | 2-1/4" | 9" | DWRR21/32 | \$42.00 | DWRRSP21/32 | \$47.89 |
| 43/64" | .6719 | 2-1/4" | 9" | DWRR43/64 | \$42.00 | DWRRSP43/64 | \$47.89 |
| 11/16" | .6875 | 2-1/4" | 9" | DWRR11/16 | \$42.00 | DWRRSP11/16 | \$47.89 |
| 45/64" | .7031 | 2-1/4" | 9" | DWRR45/64 | \$47.40 | DWRRSP45/64 | \$54.98 |
| 23/32" | .7188 | 2-1/4" | 9" | DWRR23/32 | \$47.40 | DWRRSP23/32 | \$54.98 |
| 47/64" | .7344 | 2-1/2" | 9-1/2" | DWRR47/64 | \$52.89 | DWRRSP47/64 | \$62.00 |
| 3/4" | .7500 | 2-1/2" | 9-1/2" | DWRR3/4 | \$52.89 | DWRRSP3/4 | \$62.00 |
| 49/64" | .7656 | 2-1/2" | 9-1/2" | DWRR49/64 | \$55.67 | DWRRSP49/64 | \$70.73 |
| 25/32" | .7812 | 2-1/2" | 9-1/2" | DWRR25/32 | \$55.67 | DWRRSP25/32 | \$70.73 |
| 51/64" | .7969 | 2-1/2" | 9-1/2" | DWRR51/64 | \$55.67 | DWRRSP51/64 | \$70.73 |
| 13/16" | .8125 | 2-1/2" | 9-1/2" | DWRR13/16 | \$55.67 | DWRRSP13/16 | \$70.73 |
| 53/64" | .8281 | 2-1/2" | 9-1/2" | DWRR53/64 | \$62.95 | DWRRSP53/64 | \$70.73 |
| 27/32" | .8438 | 2-1/2" | 9-1/2" | DWRR27/32 | \$62.95 | DWRRSP27/32 | \$70.73 |
| 55/64" | .8594 | 2-5/8" | 10" | DWRR55/64 | \$68.58 | DWRRSP55/64 | \$79.63 |
| 7/8" | .8750 | 2-5/8" | 10" | DWRR7/8 | \$68.58 | DWRRSP7/8 | \$79.63 |
| 57/64" | .8906 | 2-5/8" | 10" | DWRR57/64 | \$69.68 | DWRRSP57/64 | \$79.63 |
| 29/32" | .9062 | 2-5/8" | 10" | DWRR29/32 | \$69.68 | DWRRSP29/32 | \$79.63 |
| 59/64" | .9219 | 2-5/8" | 10" | DWRR59/64 | \$69.68 | DWRRSP59/64 | \$89.86 |
| 15/16" | .9375 | 2-5/8" | 10" | DWRR15/16 | \$69.68 | DWRRSP15/16 | \$89.86 |



CHUCKING REAMERS

FRACTIONAL SIZES (CONTINUED)

| | | | | DWRR Series | | DWRRSP Series | |
|---------|-------------|--------------|---------|-------------|------------|---------------|------------|
| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 61/64" | .9531" | 2-5/8" | 10" | DWRR61/64 | \$78.22 | DWRRSP61/64 | \$89.86 |
| 31/32" | .9688" | 2-5/8" | 10" | DWRR31/32 | \$78.22 | DWRRSP31/32 | \$89.86 |
| 63/64" | .9844" | 2-3/4" | 10-1/2" | DWRR63/64 | \$83.39 | DWRRSP63/64 | \$99.80 |
| 1" | 1.0000" | 2-3/4" | 10-1/2" | DWRR1INCH | \$83.39 | DWRRSP1INCH | \$99.80 |
| 1-1/16" | 1.0625" | 2-3/4" | 10-1/2" | DWRR1-1/16 | \$85.62 | DWRRSP1-1/16 | \$102.48 |
| 1-1/8" | 1.1250" | 2-7/8" | 11" | DWRR1-1/8 | \$98.59 | DWRRSP1-1/8 | \$112.97 |
| 1-3/16" | 1.1875" | 2-7/8" | 11" | DWRR1-3/16 | \$108.55 | DWRRSP1-3/16 | \$124.28 |
| 1-1/4" | 1.2500" | 3" | 11-1/2" | DWRR1-1/4 | \$121.25 | DWRRSP1-1/4 | \$139.20 |
| 1-5/16" | 1.3125" | 3" | 11-1/2" | DWRR1-5/16 | \$139.95 | DWRRSP1-5/16 | \$159.15 |
| 1-3/8" | 1.3750" | 3-1/4" | 12" | DWRR1-3/8 | \$155.05 | DWRRSP1-3/8 | \$174.82 |
| 1-7/16" | 1.4375" | 3-1/4" | 12" | DWRR1-7/16 | \$167.02 | DWRRSP1-7/16 | \$190.55 |
| 1-1/2" | 1.5000" | 3-1/2" | 12-1/2" | DWRR1-1/2 | \$180.40 | DWRRSP1-1/2 | \$205.98 |



DWRR Series

WIRE GAUGE SIZES

| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
|------|-------------|--------------|--------|-------------|------------|
| 1 | .2280 | 1-1/2" | 6" | DWRR1 | \$17.72 |
| 2 | .2210 | 1-1/2" | 6" | DWRR2 | \$17.72 |
| 3 | .2130 | 1-1/4" | 5" | DWRR3 | \$17.72 |
| 4 | .2090 | 1-1/4" | 5" | DWRR4 | \$17.72 |
| 5 | .2055 | 1-1/4" | 5" | DWRR5 | \$17.72 |
| 6 | .2040 | 1-1/4" | 5" | DWRR6 | \$17.72 |
| 7 | .2010 | 1-1/4" | 5" | DWRR7 | \$17.72 |
| 8 | .1990 | 1-1/4" | 5" | DWRR8 | \$17.72 |
| 9 | .1960 | 1-1/4" | 5" | DWRR9 | \$17.72 |
| 10 | .1935 | 1-1/4" | 5" | DWRR10 | \$17.72 |
| 11 | .1910 | 1-1/4" | 5" | DWRR11 | \$17.72 |
| 12 | .1890 | 1-1/8" | 4-1/2" | DWRR12 | \$17.72 |
| 13 | .1850 | 1-1/8" | 4-1/2" | DWRR13 | \$16.30 |
| 14 | .1820 | 1-1/8" | 4-1/2" | DWRR14 | \$16.30 |
| 15 | .1800 | 1-1/8" | 4-1/2" | DWRR15 | \$16.30 |
| 16 | .1770 | 1-1/8" | 4-1/2" | DWRR16 | \$16.30 |
| 17 | .1730 | 1-1/8" | 4-1/2" | DWRR17 | \$16.30 |
| 18 | .1695 | 1-1/8" | 4-1/2" | DWRR18 | \$16.30 |
| 19 | .1660 | 1-1/8" | 4-1/2" | DWRR19 | \$16.30 |
| 20 | .1610 | 1-1/8" | 4-1/2" | DWRR20 | \$16.30 |
| 21 | .1590 | 1-1/8" | 4-1/2" | DWRR21 | \$16.30 |
| 22 | .1570 | 1" | 4" | DWRR22 | \$14.88 |
| 23 | .1540 | 1" | 4" | DWRR23 | \$14.88 |
| 24 | .1520 | 1" | 4" | DWRR24 | \$14.88 |
| 25 | .1495 | 1" | 4" | DWRR25 | \$14.88 |
| 26 | .1470 | 1" | 4" | DWRR26 | \$14.88 |
| 27 | .1440 | 1" | 4" | DWRR27 | \$14.88 |
| 28 | .1405 | 1" | 4" | DWRR28 | \$14.88 |
| 29 | .1360 | 1" | 4" | DWRR29 | \$14.88 |
| 30 | .1285 | 7/8" | 3-1/2" | DWRR30 | \$12.96 |

| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
|------|-------------|--------------|--------|-------------|------------|
| 31 | .1200 | 7/8" | 3-1/2" | DWRR31 | \$12.96 |
| 32 | .1160 | 7/8" | 3-1/2" | DWRR32 | \$12.96 |
| 33 | .1130 | 7/8" | 3-1/2" | DWRR33 | \$12.96 |
| 34 | .1110 | 7/8" | 3-1/2" | DWRR34 | \$12.96 |
| 35 | .1100 | 7/8" | 3-1/2" | DWRR35 | \$12.96 |
| 36 | .1065 | 7/8" | 3-1/2" | DWRR36 | \$12.96 |
| 37 | .1040 | 7/8" | 3-1/2" | DWRR37 | \$12.96 |
| 38 | .1015 | 7/8" | 3-1/2" | DWRR38 | \$12.96 |
| 39 | .0995 | 7/8" | 3-1/2" | DWRR39 | \$12.96 |
| 40 | .0980 | 7/8" | 3-1/2" | DWRR40 | \$12.96 |
| 41 | .0960 | 7/8" | 3-1/2" | DWRR41 | \$12.96 |
| 42 | .0935 | 3/4" | 3" | DWRR42 | \$12.96 |
| 43 | .0890 | 3/4" | 3" | DWRR43 | \$12.96 |
| 44 | .0860 | 3/4" | 3" | DWRR44 | \$12.96 |
| 45 | .0820 | 3/4" | 3" | DWRR45 | \$12.96 |
| 46 | .0810 | 3/4" | 3" | DWRR46 | \$12.96 |
| 47 | .0785 | 3/4" | 3" | DWRR47 | \$12.96 |
| 48 | .0760 | 3/4" | 3" | DWRR48 | \$12.96 |
| 49 | .0730 | 3/4" | 3" | DWRR49 | \$12.96 |
| 50 | .0700 | 3/4" | 3" | DWRR50 | \$12.96 |
| 51 | .0670 | 3/4" | 3" | DWRR51 | \$12.96 |
| 52 | .0635 | 1/2" | 2-1/2" | DWRR52 | \$14.88 |
| 53 | .0595 | 1/2" | 2-1/2" | DWRR53 | \$14.88 |
| 54 | .0550 | 1/2" | 2-1/2" | DWRR54 | \$14.88 |
| 55 | .0520 | 1/2" | 2-1/2" | DWRR55 | \$14.88 |
| 56 | .0465 | 1/2" | 2-1/2" | DWRR56 | \$14.88 |
| 57 | .0430 | 1/2" | 2-1/2" | DWRR57 | \$14.88 |
| 58 | .0420 | 1/2" | 2-1/2" | DWRR58 | \$14.88 |
| 59 | .0410 | 1/2" | 2-1/2" | DWRR59 | \$14.88 |
| 60 | .0400 | 1/2" | 2-1/2" | DWRR60 | \$14.88 |

DWRR Series

LETTER SIZES

| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
|------|-------------|--------------|--------|-------------|------------|
| A | .2340 | 1-1/2" | 6" | DWRRRA | \$18.59 |
| B | .2380 | 1-1/2" | 6" | DWRRRB | \$18.59 |
| C | .2420 | 1-1/2" | 6" | DWRRRC | \$18.59 |
| D | .2460 | 1-1/2" | 6" | DWRRRD | \$18.59 |
| E | .2500 | 1-1/2" | 6" | DWRRRE | \$18.59 |
| F | .2570 | 1-1/2" | 6" | DWRRRF | \$18.59 |
| G | .2610 | 1-1/2" | 6" | DWRRRG | \$18.59 |
| H | .2660 | 1-1/2" | 6" | DWRRRH | \$19.97 |
| I | .2720 | 1-1/2" | 6" | DWRRRI | \$19.97 |
| J | .2770 | 1-1/2" | 6" | DWRRRJ | \$19.97 |
| K | .2810 | 1-1/2" | 6" | DWRRRK | \$19.97 |
| L | .2900 | 1-1/2" | 6" | DWRRRL | \$19.97 |
| M | .2950 | 1-1/2" | 6" | DWRRRM | \$19.97 |

| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
|------|-------------|--------------|--------|-------------|------------|
| N | .3020 | 1-1/2" | 6" | DWRRRN | \$19.97 |
| O | .3160 | 1-1/2" | 6" | DWRRRO | \$21.38 |
| P | .3230 | 1-1/2" | 6" | DWRRRP | \$21.38 |
| Q | .3320 | 1-1/2" | 6" | DWRRRQ | \$21.38 |
| R | .3390 | 1-1/2" | 6" | DWRRRR | \$21.38 |
| S | .3480 | 1-3/4" | 7" | DWRRRS | \$25.26 |
| T | .3580 | 1-3/4" | 7" | DWRRRT | \$25.26 |
| U | .3680 | 1-3/4" | 7" | DWRRRU | \$25.26 |
| V | .3770 | 1-3/4" | 7" | DWRRRV | \$25.26 |
| W | .3860 | 1-3/4" | 7" | DWRRRW | \$25.26 |
| X | .3970 | 1-3/4" | 7" | DWRRRX | \$25.26 |
| Y | .4040 | 1-3/4" | 7" | DWRRRY | \$25.26 |
| Z | .4130 | 1-3/4" | 7" | DWRRRZ | \$25.26 |

CHUCKING REAMERS

METRIC SIZES

DWRR Series

| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price | Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
|------|-------------|--------------|--------|-------------|------------|------|-------------|--------------|---------|-------------|------------|
| 1.5 | .0591 | 1/2" | 2-1/2" | DWRR1.5MM | \$26.25 | 10.0 | .3937 | 1-3/4" | 7" | DWRR10.0MM | \$40.18 |
| 2.0 | .0787 | 3/4" | 3" | DWRR2.0MM | \$24.88 | 11.0 | .4331 | 1-3/4" | 7" | DWRR11.0MM | \$43.47 |
| 2.5 | .0984 | 7/8" | 3-1/2" | DWRR2.5MM | \$20.42 | 12.0 | .4724 | 2" | 8" | DWRR12.0MM | \$43.47 |
| 3.0 | .1181 | 7/8" | 3-1/2" | DWRR3.0MM | \$20.42 | 13.0 | .5118 | 2" | 8" | DWRR13.0MM | \$52.67 |
| 3.5 | .1378 | 1" | 4" | DWRR3.5MM | \$20.42 | 14.0 | .5512 | 2" | 8" | DWRR14.0MM | \$56.78 |
| 4.0 | .1575 | 1-1/8" | 4-1/2" | DWRR4.0MM | \$21.30 | 15.0 | .5906 | 2" | 8" | DWRR15.0MM | \$60.16 |
| 4.5 | .1772 | 1-1/8" | 4-1/2" | DWRR4.5MM | \$22.19 | 16.0 | .6299 | 2-1/4" | 9" | DWRR16.0MM | \$65.95 |
| 5.0 | .1969 | 1-1/4" | 5" | DWRR5.0MM | \$22.19 | 17.0 | .6693 | 2-1/4" | 9" | DWRR17.0MM | \$80.90 |
| 5.5 | .2165 | 1-1/4" | 5" | DWRR5.5MM | \$24.72 | 18.0 | .7087 | 2-1/4" | 9" | DWRR18.0MM | \$80.90 |
| 6.0 | .2362 | 1-1/2" | 6" | DWRR6.0MM | \$23.70 | 19.0 | .7480 | 2-1/2" | 9-1/2" | DWRR19.0MM | \$84.29 |
| 6.5 | .2559 | 1-1/2" | 6" | DWRR6.5MM | \$28.31 | 20.0 | .7874 | 2-1/2" | 9-1/2" | DWRR20.0MM | \$84.29 |
| 7.0 | .2756 | 1-1/2" | 6" | DWRR7.0MM | \$27.15 | 21.0 | .8268 | 2-1/2" | 9-1/2" | DWRR21.0MM | \$119.81 |
| 7.5 | .2953 | 1-1/2" | 6" | DWRR7.5MM | \$33.45 | 22.0 | .8661 | 2-5/8" | 10" | DWRR22.0MM | \$128.25 |
| 8.0 | .3150 | 1-1/2" | 6" | DWRR8.0MM | \$32.06 | 23.0 | .9055 | 2-5/8" | 10" | DWRR23.0MM | \$140.46 |
| 8.5 | .3346 | 1-1/2" | 6" | DWRR8.5MM | \$37.53 | 24.0 | .9449 | 2-3/4" | 10-1/2" | DWRR24.0MM | \$149.60 |
| 9.0 | .3543 | 1-3/4" | 7" | DWRR9.0MM | \$35.98 | 25.0 | .9843 | 2-3/4" | 10-1/2" | DWRR25.0MM | \$184.49 |
| 9.5 | .3740 | 1-3/4" | 7" | DWRR9.5MM | \$41.90 | | | | | | |

DWRRTS Series - Taper Shank Straight Flute

DWRRTSSP Series - Taper Shank Spiral Flute

TAPER SHANK FRACTIONAL SIZES



DWRRTS Series

DWRRTSS Series

| Size | Dec. Equiv. | Morse Taper | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
|---------|-------------|-------------|--------------|---------|--------------|------------|----------------|------------|
| 1/4" | .2500 | 1 | 1-1/2" | 6" | DWRRTS1/4 | \$26.17 | - | - |
| 9/32" | .2813 | 1 | 1-1/2" | 6" | DWRRTS9/32 | \$27.12 | - | - |
| 5/16" | .3125 | 1 | 1-1/2" | 6" | DWRRTS5/16 | \$27.12 | DWRRTSSP5/16 | \$30.73 |
| 11/32" | .3438 | 1 | 1-1/2" | 6" | DWRRTS11/32 | \$29.30 | - | - |
| 3/8" | .3750 | 1 | 1-3/4" | 7" | DWRRTS3/8 | \$29.30 | DWRRTSSP3/8 | \$30.88 |
| 13/32" | .4063 | 1 | 1-3/4" | 7" | DWRRTS13/32 | \$29.30 | DWRRTSSP13/32 | \$34.17 |
| 7/16" | .4375 | 1 | 1-3/4" | 7" | DWRRTS7/16 | \$29.30 | DWRRTSSP7/16 | \$34.17 |
| 15/32" | .4688 | 1 | 1-3/4" | 7" | DWRRTS15/32 | \$32.72 | - | - |
| 1/2" | .5000 | 1 | 2" | 8" | DWRRTS1/2 | \$32.72 | DWRRTSSP1/2 | \$34.17 |
| 17/32" | .5313 | 1 | 2" | 8" | DWRRTS17/32 | \$37.43 | DWRRTSSP17/32 | \$41.29 |
| 9/16" | .5625 | 1 | 2" | 8" | DWRRTS9/16 | \$36.64 | DWRRTSSP9/16 | \$41.29 |
| 19/32" | .5938 | 1 | 2" | 8" | DWRRTS19/32 | \$40.61 | DWRRTSSP19/32 | \$44.55 |
| 5/8" | .6250 | 2 | 2-1/4" | 9" | DWRRTS5/8 | \$40.61 | DWRRTSSP5/8 | \$44.55 |
| 21/32" | .6563 | 2 | 2-1/4" | 9" | DWRRTS21/32 | \$45.88 | DWRRTSSP21/32 | \$48.21 |
| 11/16" | .6875 | 2 | 2-1/4" | 9" | DWRRTS11/16 | \$45.88 | DWRRTSSP11/16 | \$48.21 |
| 23/32" | .7188 | 2 | 2-1/4" | 9" | DWRRTS23/32 | \$49.27 | DWRRTSSP23/32 | \$54.34 |
| 3/4" | .7500 | 2 | 2-1/4" | 9-1/2" | DWRRTS3/4 | \$48.31 | DWRRTSSP3/4 | \$54.34 |
| 13/16" | .8125 | 2 | 2-1/2" | 9-1/2" | DWRRTS13/16 | \$57.94 | DWRRTSSP13/16 | \$63.71 |
| 7/8" | .8750 | 2 | 2-5/8" | 10" | DWRRTS7/8 | \$65.06 | DWRRTSSP7/8 | \$73.01 |
| 15/16" | .9375 | 2 | 2-5/8" | 10" | DWRRTS15/16 | \$80.16 | DWRRTSSP15/16 | \$79.82 |
| 1" | 1.0000 | 3 | 2-3/4" | 10-1/2" | DWRRTS1INCH | \$79.41 | DWRRTSSP1INCH | \$88.75 |
| 1-1/16" | 1.0625 | 3 | 2-3/4" | 10-1/2" | DWRRTS1-1/16 | \$92.46 | DWRRTSSP1-1/16 | \$102.02 |
| 1-1/8" | 1.1250 | 3 | 2-7/8" | 11" | DWRRTS1-1/8 | \$92.46 | DWRRTSSP1-1/8 | \$112.73 |
| 1-3/16" | 1.1875 | 3 | 2-7/8" | 11" | DWRRTS1-3/16 | \$112.15 | DWRRTSSP1-3/16 | \$122.68 |
| 1-1/4" | 1.2500 | 4 | 3" | 11-1/2" | DWRRTS1-1/4 | \$121.40 | DWRRTSSP1-1/4 | \$134.86 |
| 1-5/16" | 1.3125 | 4 | 3" | 11-1/2" | DWRRTS1-5/16 | \$141.72 | DWRRTSSP1-5/16 | \$154.09 |
| 1-3/8" | 1.3750 | 4 | 3-1/4" | 12" | DWRRTS1-3/8 | \$153.13 | DWRRTSSP1-3/8 | \$166.75 |
| 1-7/16" | 1.4375 | 4 | 3-1/4" | 12" | DWRRTS1-7/16 | \$165.93 | DWRRTSSP1-7/16 | \$181.63 |
| 1-1/2" | 1.5000 | 4 | 3-1/2" | 12-1/2" | DWRRTS1-1/2 | \$177.30 | DWRRTSSP1-1/2 | \$192.84 |

REAMERS

“ O V E R / U N D E R ” D O W E L P I N R E A M E R S

DWRRDP Series

| Size | Flute Length | O.A.L. | Part Number | List Price |
|--------|--------------|--------|-------------|------------|
| *.1230 | 7/8" | 3-1/2" | DWRRDP.1230 | \$10.65 |
| .1240 | 7/8" | 3-1/2" | DWRRDP.1240 | \$11.11 |
| *.1247 | 7/8" | 3-1/2" | DWRRDP.1247 | \$10.65 |
| .1260 | 7/8" | 3-1/2" | DWRRDP.1260 | \$11.11 |
| *.1855 | 1-1/8" | 4-1/2" | DWRRDP.1855 | \$15.90 |
| .1865 | 1-1/8" | 4-1/2" | DWRRDP.1865 | \$15.65 |
| *.1870 | 1-1/8" | 4-1/2" | DWRRDP.1870 | \$15.90 |
| .1885 | 1-1/8" | 4-1/2" | DWRRDP.1885 | \$16.35 |
| *.2480 | 1-1/2" | 6" | DWRRDP.2480 | \$16.94 |
| .2490 | 1-1/2" | 6" | DWRRDP.2490 | \$16.57 |
| *.2495 | 1-1/2" | 6" | DWRRDP.2495 | \$16.94 |
| .2510 | 1-1/2" | 6" | DWRRDP.2510 | \$16.57 |
| *.3105 | 1-1/2" | 6" | DWRRDP.3105 | \$19.08 |
| .3115 | 1-1/2" | 6" | DWRRDP.3115 | \$20.25 |

| Size | Flute Length | O.A.L. | Part Number | List Price |
|--------|--------------|--------|-------------|------------|
| *.3120 | 1-1/2" | 6" | DWRRDP.3120 | \$19.08 |
| .3135 | 1-1/2" | 6" | DWRRDP.3135 | \$22.99 |
| *.3730 | 1-3/4" | 7" | DWRRDP.3730 | \$22.90 |
| .3740 | 1-3/4" | 7" | DWRRDP.3740 | \$24.42 |
| *.3745 | 1-3/4" | 7" | DWRRDP.3745 | \$22.90 |
| .3760 | 1-3/4" | 7" | DWRRDP.3760 | \$24.42 |
| *.4355 | 1-3/4" | 7" | DWRRDP.4355 | \$24.42 |
| .4365 | 1-3/4" | 7" | DWRRDP.4365 | \$27.23 |
| *.4370 | 1-3/4" | 7" | DWRRDP.4370 | \$24.42 |
| .4385 | 1-3/4" | 7" | DWRRDP.4385 | \$27.23 |
| *.4980 | 2" | 8" | DWRRDP.4980 | \$27.23 |
| .4990 | 2" | 8" | DWRRDP.4990 | \$27.23 |
| *.4995 | 2" | 8" | DWRRDP.4995 | \$27.23 |
| .5010 | 2" | 8" | DWRRDP.5010 | \$29.08 |

*Dowel Pin Sizes



S P E C I A L D E C I M A L S I Z E S

DWRR Series

| Size | Size Range To | List Price |
|-----------|---------------|------------|
| DWRR.0400 | DWRR.0620 | \$36.06 |
| DWRR.0630 | DWRR.1245 | \$33.19 |
| DWRR.1250 | DWRR.1870 | \$36.06 |
| DWRR.1880 | DWRR.2180 | \$38.94 |
| DWRR.2190 | DWRR.2500 | \$38.94 |
| DWRR.2510 | DWRR.2810 | \$41.15 |
| DWRR.2820 | DWRR.3120 | \$41.15 |
| DWRR.3130 | DWRR.3740 | \$41.15 |
| DWRR.3760 | DWRR.4370 | \$45.31 |

| Size | Size Range To | List Price |
|-----------|---------------|------------|
| DWRR.4380 | DWRR.5000 | \$52.89 |
| DWRR.5010 | DWRR.5620 | \$66.89 |
| DWRR.5630 | DWRR.6250 | \$65.43 |
| DWRR.6260 | DWRR.6880 | \$76.11 |
| DWRR.6890 | DWRR.7450 | \$88.69 |
| DWRR.7460 | DWRR.8110 | \$92.49 |
| DWRR.8120 | DWRR.8780 | \$114.50 |
| DWRR.8790 | DWRR1.0030 | \$128.25 |

REAMERS

HSS MACHINE EXPANSION REAMERS

DWRRE Series - Straight Shank

DWRRETS Series - Taper Shank

An economical high production reamer. Expansion feature permits reamer to be resharpened many times to its original diameter therefore saving on replacement costs. These reamers are NOT for reaming oversized holes. They may be expanded only for the purpose of regrinding to the original size. Misuse of these tools may cause damage to the tool, the workpiece and injury to the operator.



FRACTIONAL SIZES

| | | | | | | DWRRE Series | | | | DWRRETS Series |
|----------|-------------|------------|--------------|---------|--------------|--------------|----------------|-------|------------|----------------|
| Size | Dec. Equiv. | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price | Part Number | Shank | List Price | |
| 1/4" | .2500 | 15/64" | 5/8" | 6" | DWRRE1/4 | \$124.97 | - | - | - | |
| 5/16" | .3125 | 9/32" | 11/16" | 6" | DWRRE5/16 | \$124.97 | - | - | - | |
| 3/8" | .3750 | 5/16" | 3/4" | 7" | DWRRE3/8 | \$103.48 | DWRRETS3/8 | 1MT | \$115.85 | |
| 13/32" | .4063 | 5/16" | 3/4" | 7" | DWRRE13/32 | \$121.01 | DWRRETS13/32 | 1MT | \$152.87 | |
| 7/16" | .4375 | 3/8" | 7/8" | 7" | DWRRE7/16 | \$98.35 | DWRRETS7/16 | 1MT | \$118.31 | |
| 15/32" | .4688 | 27/64" | 7/8" | 7" | DWRRE15/32 | \$113.81 | DWRRETS15/32 | 1MT | \$138.17 | |
| 1/2" | .5000 | 7/16" | 1" | 8" | DWRRE1/2 | \$98.35 | DWRRETS1/2 | 1MT | \$110.73 | |
| 17/32" | .5313 | 7/16" | 1" | 8" | DWRRE17/32 | \$114.20 | DWRRETS17/32 | 1MT | \$144.72 | |
| 9/16" | .5625 | 7/16" | 1-1/8" | 8" | DWRRE9/16 | \$110.07 | DWRRETS9/16 | 1MT | \$116.10 | |
| 19/32" | .5938 | 7/16" | 1-1/8" | 8" | DWRRE19/32 | \$126.15 | DWRRETS19/32 | 1MT | \$150.31 | |
| 5/8" | .6250 | 9/16" | 1-1/4" | 9" | DWRRE5/8 | \$111.01 | DWRRETS5/8 | 2MT | \$123.37 | |
| 21/32" | .6563 | 9/16" | 1-1/4" | 9" | DWRRE21/32 | \$124.94 | DWRRETS21/32 | 2MT | \$138.74 | |
| 11/16" | .6875 | 9/16" | 1-1/4" | 9" | DWRRE11/16 | \$121.24 | DWRRETS11/16 | 2MT | \$129.43 | |
| 23/32" | .7188 | 9/16" | 1-1/4" | 9" | DWRRE23/32 | \$133.61 | DWRRETS23/32 | 2MT | \$148.67 | |
| 3/4" | .7500 | 5/8" | 1-3/4" | 9-1/2" | DWRRE3/4 | \$126.90 | DWRRETS3/4 | 2MT | \$140.48 | |
| 25/32" | .7813 | 5/8" | 1-3/4" | 9-1/2" | DWRRE25/32 | \$135.68 | DWRRETS25/32 | 2MT | \$155.01 | |
| 13/16" | .8125 | 5/8" | 1-3/4" | 9-1/2" | DWRRE13/16 | \$140.78 | DWRRETS13/16 | 2MT | \$149.02 | |
| 27/32" | .8438 | 5/8" | 1-3/4" | 9-1/2" | DWRRE27/32 | \$148.41 | DWRRETS27/32 | 2MT | \$157.75 | |
| 7/8" | .8750 | 3/4" | 1-1/2" | 10" | DWRRE7/8 | \$151.35 | DWRRETS7/8 | 2MT | \$163.99 | |
| 29/32" | .9063 | 3/4" | 1-1/2" | 10" | DWRRE29/32 | \$159.05 | DWRRETS29/32 | 2MT | \$172.49 | |
| 15/16" | .9375 | 3/4" | 1-1/2" | 10" | DWRRE15/16 | \$166.57 | DWRRETS15/16 | 3MT | \$176.64 | |
| 31/32" | .9688 | 3/4" | 1-1/2" | 10" | DWRRE31/32 | \$170.85 | DWRRETS31/32 | 3MT | \$184.21 | |
| 1" | 1.0000 | 7/8" | 1-5/8" | 10-1/2" | DWRRE1INCH | \$174.88 | DWRRETS1INCH | 3MT | \$192.96 | |
| 1-1/32" | 1.0313 | 7/8" | 1-5/8" | 10-1/2" | DWRRE1-1/32 | \$201.78 | DWRRETS1-1/32 | 3MT | \$220.25 | |
| 1-1/16" | 1.0625 | 7/8" | 1-5/8" | 10-1/2" | DWRRE1-1/16 | \$210.56 | DWRRETS1-1/16 | 3MT | \$230.81 | |
| 1-3/32" | 1.0938 | 7/8" | 1-5/8" | 10-1/2" | DWRRE1-3/32 | \$227.23 | DWRRETS1-3/32 | 3MT | \$241.02 | |
| 1-1/8" | 1.1250 | 7/8" | 1-3/4" | 11" | DWRRE1-1/8 | \$237.35 | DWRRETS1-1/8 | 3MT | \$249.33 | |
| 1-5/32" | 1.1563 | 7/8" | 1-3/4" | 11" | DWRRE1-5/32 | \$244.07 | DWRRETS1-5/32 | 3MT | \$259.78 | |
| 1-3/16" | 1.1875 | 1" | 1-3/4" | 11" | DWRRE1-3/16 | \$252.24 | DWRRETS1-3/16 | 3MT | \$270.06 | |
| 1-7/32" | 1.2188 | 1" | 1-3/4" | 11" | DWRRE1-7/32 | \$267.60 | DWRRETS1-7/32 | 4MT | \$280.51 | |
| 1-1/4" | 1.2500 | 1" | 1-7/8" | 11-1/2" | DWRRE1-1/4 | \$271.91 | DWRRETS1-1/4 | 4MT | \$293.54 | |
| 1-5/16" | 1.3125 | 1" | 1-7/8" | 11-1/2" | DWRRE1-5/16 | \$288.67 | DWRRETS1-5/16 | 4MT | \$304.94 | |
| 1-3/8" | 1.3750 | 1" | 2" | 12" | DWRRE1-3/8 | \$294.28 | DWRRETS1-3/8 | 4MT | \$317.64 | |
| 1-7/16" | 1.4375 | 1-1/4" | 2" | 12" | DWRRE1-7/16 | \$305.54 | DWRRETS1-7/16 | 4MT | \$336.29 | |
| 1-1/2" | 1.5000 | 1-1/4" | 2-1/8" | 12-1/2" | DWRRE1-1/2 | \$312.68 | DWRRETS1-1/2 | 4MT | \$347.72 | |
| 1-9/16" | 1.5625 | 1-1/4" | 2-1/8" | 12-1/2" | DWRRE1-9/16 | \$356.53 | DWRRETS1-9/16 | 4MT | \$394.35 | |
| 1-5/8" | 1.6250 | 1-1/4" | 2-1/4" | 13" | DWRRE1-5/8 | \$393.13 | DWRRETS1-5/8 | 4MT | \$394.35 | |
| 1-11/16" | 1.6875 | 1-1/4" | 2-1/4" | 13" | DWRRE1-11/16 | \$406.80 | DWRRETS1-11/16 | 4MT | \$437.11 | |
| 1-3/4" | 1.7500 | 1-1/4" | 2-3/8" | 13-1/2" | DWRRE1-3/4 | \$417.65 | DWRRETS1-3/4 | 5MT | \$483.28 | |
| 1-13/16" | 1.8125 | 1-1/2" | 2-3/8" | 13-1/2" | DWRRE1-13/16 | \$419.46 | DWRRETS1-13/16 | 5MT | \$483.28 | |
| 1-7/8" | 1.8750 | 1-1/2" | 2-1/2" | 14" | DWRRE1-7/8 | \$436.55 | DWRRETS1-7/8 | 5MT | \$483.28 | |
| 1-15/16" | 1.9375 | 1-1/2" | 2-1/2" | 14" | DWRRE1-15/16 | \$486.43 | DWRRETS1-15/16 | 5MT | \$578.33 | |
| 2" | 2.0000 | 1-1/2" | 2-1/2" | 14" | DWRRE2INCH | \$498.56 | -- | -- | -- | |

REAMERS

H S S H A N D R E A M E R S

DWRRHD Series - Straight Flute

DWRRHDSP Series - Spiral Flute

Hand reamers are made of high-speed steel and are generally used by hand for the final sizing of holes. The square on the shank is suitable for holding in a tap wrench or a vise depending on whether the reamer or the part is rotated. A long starting taper is ground into the reamer for easy entry and accurate alignment. The straight-flute hand reamer is recommended for most hand reaming applications. The spiral-flute hand reamer is recommended for applications where there is an interrupted cut such as a keyway.

| | | | DWRRHD Series | | DWRRHDSP Series | |
|---------|--------------|---------|---------------|------------|-----------------|------------|
| Size | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 1/8" | 1-1/2" | 3" | DWRRHD1/8 | \$32.89 | - | - |
| 5/32" | 1-5/8" | 3-1/4" | DWRRHD5/32 | \$35.59 | - | - |
| 11/64" | 1-3/4" | 3-1/2" | DWRRHD11/64 | \$35.59 | - | - |
| 3/16" | 1-3/4" | 3-1/2" | DWRRHD3/16 | \$34.90 | - | - |
| 7/32" | 1-7/8" | 3-3/4" | DWRRHD7/32 | \$38.35 | - | - |
| 1/4" | 2" | 4" | DWRRHD1/4 | \$36.98 | DWRRHDSP1/4 | \$41.67 |
| 17/64" | 2-1/8" | 4-1/4" | DWRRHD17/64 | \$41.16 | - | - |
| 9/32" | 2-1/8" | 4-1/2" | DWRRHD9/32 | \$41.16 | - | - |
| 19/64" | 2-1/4" | 4-1/2" | DWRRHD19/64 | \$41.16 | - | - |
| 5/16" | 2-1/4" | 4-1/2" | DWRRHD5/16 | \$40.45 | DWRRHDSP5/16 | \$44.36 |
| 21/64" | 2-3/8" | 4-3/4" | DWRRHD21/64 | \$47.72 | - | - |
| 11/32" | 2-3/8" | 4-3/4" | DWRRHD11/32 | \$47.20 | - | - |
| 23/64" | 2-1/2" | 5" | DWRRHD23/64 | \$47.72 | - | - |
| 3/8" | 2-1/2" | 5" | DWRRHD3/8 | \$46.74 | DWRRHDSP3/8 | \$52.81 |
| 13/32" | 2-5/8" | 5-1/4" | DWRRHD13/32 | \$54.01 | - | - |
| 7/16" | 2-3/4" | 5-1/2" | DWRRHD7/16 | \$50.31 | DWRRHDSP7/16 | \$58.98 |
| 29/64" | 2-7/8" | 5-3/4" | DWRRHD29/64 | \$58.66 | - | - |
| 15/32" | 2-7/8" | 5-3/4" | DWRRHD15/32 | \$58.66 | - | - |
| 1/2" | 3" | 6" | DWRRHD1/2 | \$56.51 | DWRRHDSP1/2 | \$62.94 |
| 17/32" | 3-1/8" | 6-1/4" | DWRRHD17/32 | \$67.93 | DWRRHDSP17/32 | \$78.22 |
| 35/64" | 3-1/4" | 6-1/2" | DWRRHD35/64 | \$67.93 | - | - |
| 9/16" | 3-1/4" | 6-1/2" | DWRRHD9/16 | \$67.93 | DWRRHDSP9/16 | \$75.44 |
| 19/32" | 3-3/8" | 6-3/4" | DWRRHD19/32 | \$76.40 | DWRRHDSP19/32 | \$83.60 |
| 5/8" | 3-1/2" | 7" | DWRRHD5/8 | \$72.13 | DWRRHDSP5/8 | \$81.46 |
| 41/64" | 3-11/16" | 7-3/8" | DWRRHD41/64 | \$88.57 | - | - |
| 21/32" | 3-11/16" | 7-3/8" | DWRRHD21/32 | \$82.93 | DWRRHDSP21/32 | \$91.23 |
| 11/16" | 3-7/8" | 7-3/4" | DWRRHD11/16 | \$78.13 | DWRRHDSP11/16 | \$88.07 |
| 45/64" | 4-1/16" | 8-1/8" | DWRRHD45/64 | \$96.04 | - | - |
| 23/32" | 4-1/16" | 8-1/8" | DWRRHD23/32 | \$89.07 | DWRRHDSP23/32 | \$96.61 |
| 3/4" | 4-3/16" | 8-3/8" | DWRRHD3/4 | \$84.74 | DWRRHDSP3/4 | \$94.07 |
| 25/32" | 4-3/8" | 8-3/4" | DWRRHD25/32 | \$99.18 | DWRRHDSP25/32 | \$105.15 |
| 13/16" | 4-9/16" | 9-1/8" | DWRRHD13/16 | \$99.18 | DWRRHDSP13/16 | \$100.39 |
| 27/32" | 4-11/16" | 9-3/8" | DWRRHD27/32 | \$105.15 | DWRRHDSP27/32 | \$114.30 |
| 7/8" | 4-7/8" | 9-3/4" | DWRRHD7/8 | \$100.39 | DWRRHDSP7/8 | \$109.41 |
| 29/32" | 5" | 10" | DWRRHD29/32 | \$120.21 | DWRRHDSP29/32 | \$128.12 |
| 15/16" | 5-1/8" | 10-1/4" | DWRRHD15/16 | \$120.21 | DWRRHDSP15/16 | \$125.03 |
| 31/32" | 5-5/16" | 10-5/8" | DWRRHD31/32 | \$127.41 | DWRRHDSP31/32 | \$141.10 |
| 1" | 5-7/16" | 10-7/8" | DWRRHD1INCH | \$122.31 | DWRRHDSP1INCH | \$136.15 |
| 1-1/16" | 5-5/8" | 11-1/4" | DWRRHD1-1/16 | \$174.39 | DWRRHDSP1-1/16 | \$182.10 |
| 1-1/8" | 5-13/16" | 11-5/8" | DWRRHD1-1/8 | \$169.83 | DWRRHDSP1-1/8 | \$182.10 |
| 1-3/16" | 6" | 12" | DWRRHD1-3/16 | \$216.71 | DWRRHDSP1-3/16 | \$224.07 |
| 1-1/4" | 6-1/8" | 12-1/4" | DWRRHD1-1/4 | \$219.48 | DWRRHDSP1-1/4 | \$224.07 |
| 1-5/16" | 6-1/4" | 12-1/2" | DWRRHD1-5/16 | \$259.33 | DWRRHDSP1-5/16 | \$264.71 |
| 1-3/8" | 6-5/16" | 12-5/8" | DWRRHD1-3/8 | \$247.29 | DWRRHDSP1-3/8 | \$264.71 |
| 1-7/16" | 6-7/16" | 12-7/8" | DWRRHD1-7/16 | \$306.37 | DWRRHDSP1-7/16 | \$313.04 |
| 1-1/2" | 6-1/2" | 13" | DWRRHD1-1/2 | \$294.82 | DWRRHDSP1-1/2 | \$313.04 |



REAMERS

HSS HAND REAMERS

DWRRHDE Series - Straight Flute Hand Expansion Reamers

DWRRHDES Series - Spiral Flute Hand Expansion Reamers

Hand Expansion Reamers are used to enlarge holes in order to get proper fit. Adjusting screw is tightened to get proper size.

FRACTIONAL SIZES

| | | | DWRRHDE Series | | DWRRHDES Series | |
|---------|--------------|----------|----------------|------------|-----------------|------------|
| Size | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 3/16" | 1-1/8" | 3-3/8" | DWRRHDE3/16 | \$175.40 | DWRRHDES3/16 | \$175.40 |
| 1/4" | 1-7/16" | 3-7/8" | DWRRHDE1/4 | \$165.08 | DWRRHDES1/4 | \$175.40 |
| 9/32" | 1-3/4" | 4" | DWRRHDE9/32 | \$162.33 | DWRRHDES9/32 | \$185.71 |
| 5/16" | 1-3/4" | 4" | DWRRHDE5/16 | \$162.33 | DWRRHDES5/16 | \$185.71 |
| 3/8" | 1-3/4" | 4-1/4" | DWRRHDE3/8 | \$175.40 | DWRRHDES3/8 | \$185.71 |
| 13/32" | 1-3/4" | 4-1/2" | DWRRHDE13/32 | \$185.71 | DWRRHDES13/32 | \$201.20 |
| 7/16" | 1-3/4" | 4-1/2" | DWRRHDE7/16 | \$185.71 | DWRRHDES7/16 | \$201.20 |
| 15/32" | 1-3/4" | 5" | -- | -- | DWRRHDES15/32 | \$210.76 |
| 1/2" | 1-13/16" | 5" | DWRRHDE1/2 | \$198.51 | DWRRHDES1/2 | \$210.76 |
| 17/32" | 2-1/8" | 5-1/2" | DWRRHDE17/32 | \$213.96 | DWRRHDES17/32 | \$227.04 |
| 9/16" | 2-1/8" | 5-1/2" | DWRRHDE9/16 | \$213.96 | DWRRHDES9/16 | \$227.04 |
| 19/32" | 2-1/2" | 6" | DWRRHDE19/32 | \$232.24 | DWRRHDES19/32 | \$242.25 |
| 5/8" | 2-1/2" | 6" | DWRRHDE5/8 | \$232.24 | DWRRHDES5/8 | \$242.25 |
| 21/32" | 2-1/2" | 6-1/4" | DWRRHDE21/32 | \$244.94 | - | - |
| 11/16" | 2-1/2" | 6-1/4" | DWRRHDE11/16 | \$244.94 | DWRRHDES11/16 | \$257.81 |
| 23/32" | 2-11/16" | 6-9/16" | DWRRHDE23/32 | \$270.81 | DWRRHDES23/32 | \$273.27 |
| 3/4" | 2-11/16" | 6-9/16" | DWRRHDE3/4 | \$270.81 | DWRRHDES3/4 | \$273.27 |
| 13/16" | 3-1/16" | 7-1/16" | DWRRHDE13/16 | \$283.59 | DWRRHDES13/16 | \$288.80 |
| 7/8" | 3-5/16" | 7-1/2" | DWRRHDE7/8 | \$303.17 | DWRRHDES7/8 | \$303.17 |
| 15/16" | 3-9/16" | 7-7/8" | DWRRHDE15/16 | \$317.24 | DWRRHDES15/16 | \$314.62 |
| 1" | 3-3/4" | 8-3/8" | DWRRHDE1INCH | \$330.12 | DWRRHDES1INCH | \$335.24 |
| 1-1/16" | 4" | 8-11/16" | DWRRHDE1-1/16 | \$404.52 | DWRRHDES1-1/16 | \$404.42 |
| 1-1/8" | 4-1/8" | 9-1/2" | DWRRHDE1-1/8 | \$440.89 | DWRRHDES1-1/8 | \$446.55 |
| 1-3/16" | 4-1/4" | 9-3/8" | DWRRHDE1-3/16 | \$485.87 | DWRRHDES1-3/16 | \$491.55 |
| 1-1/4" | 4-3/8" | 9-3/4" | DWRRHDE1-1/4 | \$525.30 | DWRRHDES1-1/4 | \$544.89 |
| 1-5/16" | 4-1/2" | 10-1/8" | DWRRHDE1-5/16 | \$606.69 | DWRRHDES1-5/16 | \$617.89 |
| 1-3/8" | 4-9/16" | 10-1/2" | DWRRHDE1-3/8 | \$648.77 | DWRRHDES1-3/8 | \$674.06 |
| 1-7/16" | 4-3/4" | 10-7/8" | -- | -- | DWRRHDES1-7/16 | \$775.26 |
| 1-1/2" | 4-13/16" | 11-1/8" | DWRRHDE1-1/2 | \$814.51 | DWRRHDES1-1/2 | \$842.41 |
| 1-5/8" | 4-7/8" | 11-1/2" | DWRRHDE1-5/8 | \$920.11 | DWRRHDES1-5/8 | \$963.93 |
| 1-3/4" | 5" | 11-7/8" | DWRRHDE1-3/4 | \$993.10 | DWRRHDES1-3/4 | \$1,051.58 |



BALL JOINT TAPER REAMERS

DWRBJR Series - Ball Joint Taper Reamers

High Speed Steel Ball Joint Taper Reamers are for use in enlarging or deburring tapered holes. They are commonly used in ball joint studs and tie-rod ends. Ball Joint Taper Reamers can also be used in a 1/2" chuck by simply removing the T-handle.

| DWRBJR Series | | | | | |
|---------------|-----------|--------------|--------|-------------|------------|
| Small End | Large End | Flute Length | O.A.L. | Part Number | List Price |
| 7/16" | 1" | 4-1/2" | 6-1/2" | DWRBJR7/16 | \$126.67 |
| 3/4" | 1-5/16" | 4-1/2" | 6-1/2" | DWRBJR3/4 | \$153.17 |
| 15/16" | 1-1/2" | 4-1/2" | 6-1/2" | DWRBJR15/16 | \$169.76 |



BRIDGE REAMERS

DWRRB Series - High Speed Spiral Flute Taper Shank

DWRRBST Series - High Speed Straight Flute Taper Shank

Designed for hard service, these reamers are especially suitable for use in structural iron or steel bridgework and ship construction in lining up bolt or rivet holes. They have a sharp point and long taper for easy entry in badly misaligned holes. The taper shank bridge reamer is commonly used in electric and pneumatic portable equipment.

| | | | | | DWRRB Series | | DWRRBST Series | |
|----------|------------|-------------|--------------|---------|--------------|------------|----------------|------------|
| Size | Point Dia. | Morse Taper | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 3/8" | 7/32" | 2 | 4-3/8" | 8-1/4" | DWRRB3/8 | \$63.37 | - | - |
| 7/16" | 17/64" | 2 | 4-3/8" | 8-1/4" | DWRRB7/16 | \$50.92 | DWRRBST7/16 | \$61.02 |
| 1/2" | 5/16" | 2 | 5-1/8" | 9" | DWRRB1/2 | \$53.94 | DWRRBST1/2 | \$61.02 |
| 9/16" | 3/8" | 2 | 5-1/8" | 9" | DWRRB9/16 | \$56.47 | DWRRBST9/16 | \$61.02 |
| 5/8" | 25/64" | 2 | 6-1/8" | 10" | DWRRB5/8 | \$63.89 | DWRRBST5/8 | \$83.10 |
| 11/16" | 13/32" | 3 | 7-1/8" | 11-3/4" | DWRRB11/16 | \$86.26 | DWRRBST11/16 | \$87.27 |
| 3/4" | 15/32" | 3 | 7-3/8" | 12" | DWRRB3/4 | \$94.31 | DWRRBST3/4 | \$95.47 |
| 13/16" | 35/64" | 3 | 7-3/8" | 12" | DWRRB13/16 | \$97.39 | DWRRBST13/16 | \$101.21 |
| 7/8" | 39/64" | 3 | 7-3/8" | 12" | DWRRB7/8 | \$112.60 | DWRRBST7/8 | \$112.70 |
| 15/16" | 43/64" | 3 | 7-3/8" | 12" | DWRRB15/16 | \$111.12 | DWRRBST15/16 | \$114.86 |
| 1" | 47/64" | 3 | 7-3/8" | 12" | DWRRB1INCH | \$129.24 | DWRRBST1INCH | \$129.33 |
| 1-1/16" | 13/16" | 3 | 7-3/8" | 12" | DWRRB1-1/16 | \$142.08 | DWRRBST1-1/16 | \$139.47 |
| 1-1/8" | 55/64" | 3 | 7-3/8" | 12" | DWRRB1-1/8 | \$158.57 | DWRRBST1-1/8 | \$166.69 |
| 1-3/16" | 59/64" | 3 | 7-3/8" | 12" | DWRRB1-3/16 | \$186.59 | DWRRBST1-3/16 | \$183.37 |
| 1-1/4" | 63/64" | 4 | 7-3/8" | 13" | DWRRB1-1/4 | \$187.19 | DWRRBST1-1/4 | \$210.92 |
| 1-5/16" | 1-1/16" | 4 | 7-3/8" | 13" | DWRRB1-5/16 | \$214.76 | DWRRBST1-5/16 | \$210.92 |
| 1-3/8" | 1-1/8" | 4 | 7-3/8" | 13" | DWRRB1-3/8 | \$337.12 | DWRRBST1-3/8 | \$337.12 |
| 1-7/16" | 1-3/16" | 4 | 7-3/8" | 13" | DWRRB1-7/16 | \$344.57 | DWRRBST1-7/16 | \$344.57 |
| 1-1/2" | 1-1/4" | 4 | 7-3/8" | 13" | DWRRB1-1/2 | \$407.11 | DWRRBST1-1/2 | \$407.11 |
| 1-9/16" | 1-1/4" | 4 | 7-3/8" | 13" | DWRRB1-9/16 | \$447.62 | DWRRBST1-9/16 | \$447.62 |
| 1-5/8" | 1-3/8" | 4 | 7-3/8" | 13" | DWRRB1-5/8 | \$447.62 | DWRRBST1-5/8 | \$447.62 |
| 1-11/16" | 1-3/8" | 4 | 7-3/8" | 13" | DWRRB1-11/16 | \$470.66 | DWRRBST1-11/16 | \$470.66 |
| 1-3/4" | 1-7/16" | 4 | 7-3/8" | 13" | DWRRB1-3/4 | \$569.40 | DWRRBST1-3/4 | \$569.40 |
| 1-13/16" | 1-7/16" | 4 | 7-3/8" | 13" | DWRRB1-13/16 | \$569.40 | DWRRBST1-13/16 | \$569.40 |
| 1-7/8" | 1-1/2" | 4 | 7-3/8" | 13" | DWRRB1-7/8 | \$569.40 | DWRRBST1-7/8 | \$569.40 |
| 1-15/16" | 1-1/2" | 4 | 7-3/8" | 13" | DWRRB1-15/16 | \$658.26 | DWRRBST1-15/16 | \$658.26 |
| 2" | 1-3/4" | 4 | 7-3/8" | 13" | DWRRB2INCH | \$661.58 | - | - |



DWRRBSS Series - High Speed Black and Bright

KFDRBSS Series - High Speed Black and Gold

1 / 2 " R O U N D S H A N K

Used to align existing holes prior to bolt or rivet installation. Point is tapered to permit entry into overlapping holes. Three symmetrically placed flats on shank provide positive grip in portable electric and pneumatic tools. *Sizes 3/8" and 7/8" have straight shanks. 5 Piece set includes sizes 3/8", 1/2", 9/16", 5/8" and 3/4". 12 Piece Set includes sizes 3/8" - 1-1/16".

| | | | | | DWRRBSS Series | | KFDRBSS Series | |
|---------|------------|--------------|--------|----------------|----------------|----------------|----------------|--|
| Size | Point Dia. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price | |
| 3/8" | 7/32" | 2-3/4" | 4-5/8" | DWRRBSS3/8 | \$61.86 | KFDRBSS3/8 | \$62.96 | |
| 7/16" | 17/64" | 3-1/2" | 5-3/8" | DWRRBSS7/16 | \$61.86 | KFDRBSS7/16 | \$65.88 | |
| 1/2" | 5/16" | 4" | 5-7/8" | DWRRBSS1/2 | \$73.18 | KFDRBSS1/2 | \$76.84 | |
| 9/16" | 3/8" | 4" | 5-7/8" | DWRRBSS9/16 | \$77.00 | KFDRBSS9/16 | \$80.85 | |
| 5/8" | 25/64" | 4-1/2" | 6-3/8" | DWRRBSS5/8 | \$88.79 | KFDRBSS5/8 | \$93.23 | |
| 11/16" | 13/32" | 4-1/2" | 6-3/8" | DWRRBSS11/16 | \$106.27 | KFDRBSS11/16 | \$111.58 | |
| 3/4" | 15/32" | 5" | 6-7/8" | DWRRBSS3/4 | \$114.56 | KFDRBSS3/4 | \$120.30 | |
| 13/16" | 35/64" | 5" | 6-7/8" | DWRRBSS13/16 | \$124.10 | KFDRBSS13/16 | \$142.10 | |
| 7/8" | 39/64" | 5" | 6-7/8" | DWRRBSS7/8 | \$137.78 | KFDRBSS7/8 | \$150.56 | |
| 15/16" | 43/64" | 5" | 6-7/8" | DWRRBSS15/16 | \$141.93 | KFDRBSS15/16 | \$164.48 | |
| 1" | 47/64" | 5" | 6-7/8" | DWRRBSS1INCH | \$157.52 | KFDRBSS1INCH | \$188.67 | |
| 1-1/16" | 13/16" | 5" | 6-7/8" | DWRRBSS1-1/16 | \$173.11 | KFDRBSS1-1/16 | \$201.79 | |
| 5 PC. | -- | -- | -- | DWRRBSS5PC-SET | \$397.50 | KFDRBSS5PC-SET | \$418.70 | |
| 12 PC. | -- | -- | -- | DWRRBSS-SET | \$1,314.40 | -- | -- | |



REAMERS

HEX SHANK BRIDGE REAMERS

DWRRBHEX Series - High Speed Black and Bright

KFDRBHEX Series - High Speed Black and Gold

Used to align existing holes prior to bolt or rivet installation. Point is tapered to permit entry into overlapping holes. Short length facilitates use in areas with limited access. Heavy-duty hex shank designed for portable pneumatic tools.

| | | | | DWRRBHEX Series | | KFDRBHEX Series | |
|---------|------------|--------------|--------|-----------------|------------|-----------------|------------|
| Size | Point Dia. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 9/16" | 3/8" | 5" | 6-7/8" | DWRRB9/16HEX | \$78.36 | - | - |
| 11/16" | 13/32" | 5" | 6-7/8" | DWRRB11/16HEX | \$103.40 | KFDRB11/16HEX | \$116.31 |
| 3/4" | 15/32" | 5" | 6-7/8" | DWRRB3/4HEX | \$111.49 | -- | -- |
| 13/16" | 35/64" | 5" | 6-7/8" | DWRRB13/16HEX | \$111.51 | KFDRB13/16HEX | \$142.33 |
| 7/8" | 39/64" | 5" | 6-7/8" | DWRRB7/8HEX | \$129.49 | - | - |
| 15/16" | 43/64" | 5" | 6-7/8" | DWRRB15/16HEX | \$128.03 | KFDRB15/16HEX | \$167.18 |
| 1" | 47/64" | 5" | 6-7/8" | DWRRB1HEX | \$148.62 | - | - |
| 1-1/16" | 13/16" | 5" | 6-7/8" | DWRRB1-1/16HEX | \$156.14 | KFDRB1-1/16HEX | \$214.77 |
| 1-1/8" | 55/64" | 5" | 6-7/8" | DWRRB1-1/8HEX | \$182.35 | - | - |
| 1-3/16" | 59/64" | 5" | 6-7/8" | DWRRB1-3/16HEX | \$191.30 | KFDRB1-3/16HEX | \$265.92 |
| 1-1/4" | 63/64" | 5" | 6-7/8" | DWRRB1-1/4HEX | \$215.26 | - | - |
| 1-5/16" | 1-1/16" | 5" | 6-7/8" | DWRRB1-5/16HEX | \$246.97 | - | - |



HEX SHANK LONG LENGTH BRIDGE REAMERS

| | | | | DWRRBHEX Series | | KFDRBHEX Series | |
|---------|------------|--------------|---------|---------------------|------------|---------------------|------------|
| Size | Point Dia. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 9/16" | 3/8" | 5-1/8" | 9" | DWRRB9/16HEX-LONG | \$98.12 | KFDRB9/16HEX-LONG | \$107.93 |
| 11/16" | 13/32" | 7-1/8" | 11-3/4" | DWRRB11/16HEX-LONG | \$130.01 | KFDRB11/16HEX-LONG | \$143.02 |
| 13/16" | 35/64" | 7-3/8" | 12" | DWRRB13/16HEX-LONG | \$140.15 | KFDRB13/16HEX-LONG | \$154.17 |
| 15/16" | 43/64" | 7-3/8" | 12" | DWRRB15/16HEX-LONG | \$152.67 | KFDRB15/16HEX-LONG | \$181.09 |
| 1-1/16" | 13/16" | 7-3/8" | 12" | DWRRB1-1/16HEX-LONG | \$180.96 | KFDRB1-1/16HEX-LONG | \$232.67 |
| 1-3/16" | 59/64" | 7-3/8" | 12" | DWRRB1-3/16HEX-LONG | \$213.13 | KFDRB1-3/16HEX-LONG | \$288.32 |

MAGNETIC HEX SHANK BRIDGE REAMERS

DWRRBHEX-MAG Series - High Speed Black and Bright

KFDRBHEX-MAG Series - High Speed Black and Gold

For additional safety, magnet is embedded in hex shank to secure reamer in socket.

| | | | | DWRRBHEX-MAG Series | | KFDRBHEX-MAG Series | |
|---------|------------|--------------|--------|---------------------|------------|---------------------|------------|
| Size | Point Dia. | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price |
| 9/16" | 3/8" | 5" | 6-7/8" | DWRRB9/16HEX-MAG | \$109.70 | KFDRB9/16HEX-MAG | \$142.98 |
| 11/16" | 13/32" | 5" | 6-7/8" | DWRRB11/16HEX-MAG | \$144.76 | KFDRB11/16HEX-MAG | \$162.84 |
| 3/4" | 15/32" | 5" | 6-7/8" | DWRRB3/4HEX-MAG | \$156.09 | - | - |
| 13/16" | 35/64" | 5" | 6-7/8" | DWRRB13/16HEX-MAG | \$156.12 | KFDRB13/16HEX-MAG | \$199.26 |
| 7/8" | 39/64" | 5" | 6-7/8" | DWRRB7/8HEX-MAG | \$181.28 | - | - |
| 15/16" | 43/64" | 5" | 6-7/8" | DWRRB15/16HEX-MAG | \$179.24 | KFDRB15/16HEX-MAG | \$234.06 |
| 1" | 47/64" | 5" | 6-7/8" | DWRRB1HEX-MAG | \$208.07 | KFDRB1HEX-MAG | \$291.29 |
| 1-1/16" | 13/16" | 5" | 6-7/8" | DWRRB1-1/16HEX-MAG | \$218.59 | KFDRB1-1/16HEX-MAG | \$300.67 |
| 1-1/8" | 55/64" | 5" | 6-7/8" | DWRRB1-1/8HEX-MAG | \$255.29 | KFDRB1-1/8HEX-MAG | \$357.41 |
| 1-3/16" | 59/64" | 5" | 6-7/8" | DWRRB1-3/16HEX-MAG | \$267.82 | KFDRB1-3/16HEX-MAG | \$372.29 |
| 1-1/4" | 63/64" | 5" | 6-7/8" | DWRRB1-1/4HEX-MAG | \$301.37 | - | - |
| 1-5/16" | 1-1/16" | 5" | 6-7/8" | DWRRB1-5/16HEX-MAG | \$345.76 | KFDRB1-5/16HEX-MAG | \$484.05 |
| 1-3/8" | 1-1/8" | 5" | 6-7/8" | DWRRB1-3/8HEX-MAG | \$542.76 | - | - |

LONG MAGNETIC HEX SHANK BRIDGE REAMERS

| KFDRBHEX-LONG-MAG Series | | | | | |
|--------------------------|------------|--------------|---------|-------------------------|------------|
| Size | Point Dia. | Flute Length | O.A.L. | Part Number | List Price |
| 9/16" | 3/8" | 5-1/8" | 9" | KFDRB9/16HEX-LONG-MAG | \$151.10 |
| 11/16" | 13/32" | 7-1/8" | 11-3/4" | KFDRB11/16HEX-LONG-MAG | \$200.22 |
| 13/16" | 35/64" | 7-3/8" | 12" | KFDRB13/16HEX-LONG-MAG | \$215.84 |
| 15/16" | 43/64" | 7-3/8" | 12" | KFDRB15/16HEX-LONG-MAG | \$253.53 |
| 1-1/16" | 13/16" | 7-3/8" | 12" | KFDRB1-1/16HEX-LONG-MAG | \$325.74 |
| 1-3/16" | 59/64" | 7-3/8" | 12" | KFDRB1-3/16HEX-LONG-MAG | \$403.65 |

REAMERS

T S S T R A I G H T F L U T E C A R R E A M E R S

DWRCAR Series

| Size | Morse Taper | Flute Length | O.A.L. | Part Number | List Price |
|--------|-------------|--------------|----------|---------------|------------|
| 11/16" | 3 | 4-1/2" | 8-13/16" | DWRCARST11/16 | \$79.24 |
| 13/16" | 3 | 5" | 9-1/2" | DWRCARST13/16 | \$97.75 |
| 15/16" | 3 | 5" | 9-1/2" | DWRCARST15/16 | \$110.91 |
| 1" | 3 | 5" | 9-1/2" | DWRCARST1INCH | \$129.81 |



T S S P I R A L F L U T E C A R R E A M E R S

DWRCAR Series

| Size | Morse Taper | Flute Length | O.A.L. | Part Number | List Price |
|---------|-------------|--------------|----------|--------------|------------|
| 3/8" | 1 | 2-3/4" | 5-11/16" | DWRCAR3/8 | \$64.88 |
| 7/16" | 2 | 3-1/2" | 6-15/16" | DWRCAR7/16 | \$52.13 |
| 11/16" | 3 | 4-1/2" | 8-13/16" | DWRCAR11/16 | \$80.29 |
| 13/16" | 3 | 5" | 9-1/2" | DWRCAR13/16 | \$90.62 |
| 15/16" | 3 | 5" | 9-1/2" | DWRCAR15/16 | \$103.42 |
| 1" | 3 | 5" | 9-1/2" | DWRCAR1INCH | \$120.30 |
| 1-1/16" | 3 | 5" | 9-1/2" | DWRCAR1-1/16 | \$132.21 |
| 1-3/16" | 3 | 5" | 9-1/2" | DWRCAR1-3/16 | \$164.98 |



N P T T A P E R P I P E R E A M E R S

Taper pipe reamers are made with a taper of 3/4" per foot and are designed for reaming holes to be tapped with American Standard taper pipe taps. Taper reamer use prior to tapping with taper pipe taps provides threads of better quality and are recommended when tapping Dryseal, NPT, and Military Aeronautical Pipe Thread Specification, ANPT. The spiral fluted reamers have left hand spiral, right hand cutting flutes.

DWRTPR Series

| Size | Flute Length | Range Diameter | O.A.L. | Straight Flute | | Spiral Flute | |
|--------|--------------|------------------|---------|----------------|------------|--------------|------------|
| | | | | Part Number | List Price | Part Number | List Price |
| 1/16" | 3/4" | 11/32-19/64" | 2" | DWRTPR1/16 | \$33.99 | DWRTPRS1/16 | \$40.72 |
| 1/8" | 3/4" | 23/64-5/16" | 2-1/8" | DWRTPR1/8 | \$34.00 | DWRTPRS1/8 | \$39.13 |
| 1/4" | 1-1/16" | 15/32-13/32" | 2-7/16" | DWRTPR1/4 | \$43.26 | DWRTPRS1/4 | \$51.51 |
| 3/8" | 1-1/16" | 39/64-17/32" | 2-9/16" | DWRTPR3/8 | \$46.09 | DWRTPRS3/8 | \$55.63 |
| 1/2" | 1-3/8" | 3/4-21/32" | 3-1/8" | DWRTPR1/2 | \$61.11 | DWRTPRS1/2 | \$73.49 |
| 3/4" | 1-3/8" | 61/64-7/8" | 3-1/4" | DWRTPR3/4 | \$84.45 | DWRTPRS3/4 | \$100.90 |
| 1" | 1-3/4" | 1-13/64-1-3/32" | 3-3/4" | DWRTPR1INCH | \$134.51 | DWRTPRS1INCH | \$142.60 |
| 1-1/4" | 1-3/4" | 1-35/64-1-7/16" | 4" | DWRTPR1-1/4 | \$222.13 | DWRTPRS1-1/4 | \$232.02 |
| 1-1/2" | 1-3/4" | 1-51/64-1-11/16" | 4-1/4" | DWRTPR1-1/2 | \$295.92 | DWRTPRS1-1/2 | \$282.47 |
| 2" | 1-3/4" | 2-17/64-2-5/32" | 4-1/2" | DWRTPR2INCH | \$396.78 | DWRTPRS2INCH | \$374.71 |



REAMERS

H S S A D J U S T A B L E H A N D R E A M E R S

DWRRADJ Series

Reamers expand by loosening one adjusting nut and tightening the other. Each reamer expands to the next size.

DWRRADJ Series

| Size | Range | O.A.L. | Part Number | List Price |
|------|---------------|--------|-------------|------------|
| 8/A | 1/4"–9/32" | 3-1/4" | DWRRADJ8/A | \$51.17 |
| 7/A | 9/32"–5/16" | 3-1/2" | DWRRADJ7/A | \$51.17 |
| 6/A | 5/16"–11/32" | 4-1/8" | DWRRADJ6/A | \$45.05 |
| 5/A | 11/32"–3/8" | 4-3/8" | DWRRADJ5/A | \$45.05 |
| 4/A | 3/8"–13/32" | 4-3/4" | DWRRADJ4/A | \$47.29 |
| 3/A | 13/32"–7/16" | 5" | DWRRADJ3/A | \$52.17 |
| 2/A | 7/16"–15/32" | 5-1/4" | DWRRADJ2/A | \$52.17 |
| A | 15/32"–17/32" | 5-1/2" | DWRRADJA | \$55.65 |
| B | 17/32"–19/32" | 5-3/4" | DWRRADJB | \$55.65 |
| C | 19/32"–21/32" | 6-1/2" | DWRRADJC | \$57.90 |
| D | 21/32"–23/32" | 6-3/4" | DWRRADJD | \$60.55 |

A-K 11 pc SET DWRRADJA-KSET \$808.41

DWRRADJ Series

| Size | Range | O.A.L. | Part Number | List Price |
|------|------------------|--------|-------------|------------|
| E | 23/32"–25/32" | 7" | DWRRADJE | \$63.59 |
| F | 25/32"–27/32" | 7-3/8" | DWRRADJF | \$65.42 |
| G | 27/32"–15/16" | 8" | DWRRADJG | \$69.29 |
| H | 15/16"–1-1/16" | 9" | DWRRADJH | \$72.98 |
| I | 1-1/16"–1-3/16" | 10" | DWRRADJI | \$95.40 |
| J | 1-3/16"–1-11/32" | 11" | DWRRADJJ | \$113.63 |
| K | 1-11/32"–1-1/2" | 12" | DWRRADJK | \$137.12 |
| L | 1-1/2"–1-13/16" | 14" | DWRRADJL | \$201.28 |
| M | 1-13/16"–2-7/32" | 16" | DWRRADJM | \$274.02 |
| N | 2-7/32"–2-3/4" | 18" | DWRRADJN | \$462.92 |
| O | 2-3/4"–3-11/32" | 20" | DWRRADJO | \$629.17 |



TAPER PIN REAMERS

DWRRTP Series - Straight Flute

DWRRTPH Series - Helical Flute

DWRRTPS Series - Spiral Flute



These tapered reamers turn a straight hole into a tapered hole into which standard taper pins will fit. The straight-flute and spiral-flute reamers are generally used by hand while the helical-flute is designed for machine use. The square on the shanks of the straight and spiral fluted are suitable for holding in a tap wrench or vise. The straight flute taper pin reamer is recommended for most materials. The spiral flute taper pin reamer is recommended for applications where the reamer tends to wedge itself. The Helical-flute Taper pin reamer has the geometry for reaming holes for tapered pins with a machine. The free cutting action at high speeds produces a good finish and minimizes chip packing in the flutes.

DWRRTP Series

DWRRTPH Series

DWRRTPS Series

| Shank Size | Shank Dia. | Short End | Large End | Flute Length | O.A.L. | Part Number | List Price | Part Number | List Price | Part Number | List Price |
|------------|------------|-----------|-----------|--------------|----------|-------------|------------|-------------|------------|-------------|------------|
| 7/0 | 5/64" | .0497 | .0666 | 13/16" | 1-13/16" | DWRRTP7/0 | \$35.43 | DWRRTPH7/0 | \$33.11 | DWRRTPS7/0 | \$36.89 |
| 6/0 | 3/32" | .0611 | .0806 | 15/16" | 1-15/16" | DWRRTP6/0 | \$35.43 | DWRRTPH6/0 | \$33.11 | DWRRTPS6/0 | \$36.89 |
| 5/0 | 7/64" | .0719 | .0966 | 1-3/16" | 2-3/16" | DWRRTP5/0 | \$32.44 | DWRRTPH5/0 | \$31.93 | DWRRTPS5/0 | \$35.43 |
| 4/0 | 1/8" | .0869 | .1142 | 1-5/16" | 2-5/16" | DWRRTP4/0 | \$32.44 | DWRRTPH4/0 | \$31.93 | DWRRTPS4/0 | \$34.76 |
| 3/0 | 9/64" | .1029 | .1302 | 1-5/16" | 2-5/16" | DWRRTP3/0 | \$32.44 | DWRRTPH3/0 | \$28.81 | DWRRTPS3/0 | \$35.43 |
| 2/0 | 5/32" | .1137 | .1462 | 1-9/16" | 2-9/16" | DWRRTP2/0 | \$29.02 | DWRRTPH2/0 | \$27.71 | DWRRTPS2/0 | \$30.92 |
| 0 | 11/64" | .1287 | .1638 | 1-11/16" | 2-15/16" | DWRRTP0 | \$27.78 | DWRRTPH0 | \$28.81 | DWRRTPS0 | \$29.77 |
| 1 | 3/16" | .1447 | .1798 | 1-11/16" | 2-15/16" | DWRRTP1 | \$27.13 | DWRRTPH1 | \$30.46 | DWRRTPS1 | \$30.14 |
| 2 | 13/64" | .1605 | .2008 | 1-15/16" | 3-3/16" | DWRRTP2 | \$27.13 | DWRRTPH2 | \$34.67 | DWRRTPS2 | \$30.54 |
| 3 | 15/64" | .1813 | .2294 | 2-5/16" | 3-11/16" | DWRRTP3 | \$27.13 | DWRRTPH3 | \$35.68 | DWRRTPS3 | \$30.54 |
| 4 | 17/64" | .2071 | .2604 | 2-9/16" | 4-1/16" | DWRRTP4 | \$30.14 | DWRRTPH4 | \$43.45 | DWRRTPS4 | \$32.67 |
| 5 | 5/16" | .2409 | .2994 | 2-13/16" | 4-5/16" | DWRRTP5 | \$32.44 | DWRRTPH5 | \$46.50 | DWRRTPS5 | \$35.22 |
| 6 | 23/64" | .2773 | .3540 | 3-11/16" | 5-7/16" | DWRRTP6 | \$42.03 | DWRRTPH6 | \$58.78 | DWRRTPS6 | \$46.59 |
| 7 | 13/32" | .3297 | .4220 | 4-7/16" | 6-5/16" | DWRRTP7 | \$55.51 | DWRRTPH7 | \$72.53 | DWRRTPS7 | \$60.16 |
| 8 | 7/16" | .3971 | .5050 | 5-3/16" | 7-3/16" | DWRRTP8 | \$70.91 | DWRRTPH8 | \$83.79 | DWRRTPS8 | \$77.68 |
| 9 | 9/16" | .4805 | .6066 | 6-1/16" | 8-5/16" | DWRRTP9 | \$86.23 | DWRRTPH9 | \$90.07 | DWRRTPS9 | \$93.89 |
| 10 | 5/8" | .5799 | .7219 | 6-13/16" | 9-5/16" | DWRRTP10 | \$96.63 | DWRRTPH10 | \$122.09 | DWRRTPS10 | \$109.35 |
| 11 | 3/4" | .7060 | .8780 | 8-1/4" | 11-1/4" | DWRRTP11 | \$192.36 | DWRRTPH11 | \$251.84 | DWRRTPS11 | \$230.82 |
| 12 | 3/4" | .8420 | 1.0500 | 10" | 13-7/8" | DWRRTP12 | \$284.70 | DWRRTPH12 | \$335.73 | DWRRTPS12 | \$307.76 |
| 13 | 1-1/16" | 1.0090 | 1.2590 | 12" | 16" | DWRRTP13 | \$442.40 | DWRRTPH13 | \$644.47 | DWRRTPS13 | \$500.12 |
| 14 | 1-3/32" | 1.2500 | 1.5420 | 14" | 18-1/4" | DWRRTP14 | \$703.37 | DWRRTPH14 | \$825.46 | DWRRTPS14 | \$751.96 |

REAMERS

SHELL REAMERS

DWRRS Series - Straight Flute

DWRRSS Series - Spiral Flute

Used with Shell Reamer Arbors. One size arbor fits a range of sizes. More economical, particularly where larger sizes are concerned.

| | | | | DWRRS Series | | DWRRSS Series | |
|----------|--------------|-----------|------------|--------------|------------|---------------|------------|
| Size | Flute Length | Hole Dia. | Fits Arbor | Part Number | List Price | Part Number | List Price |
| 3/4" | 2-1/4" | 3/8" | 4 | DWRRS3/4 | \$285.12 | DWRRSS3/4 | \$285.12 |
| 13/16" | 2-1/2" | 1/2" | 5 | DWRRS13/16 | \$271.02 | DWRRSS13/16 | \$275.84 |
| 7/8" | 2-1/2" | 1/2" | 5 | DWRRS7/8 | \$173.08 | DWRRSS7/8 | \$209.41 |
| 15/16" | 2-1/2" | 1/2" | 5 | DWRRS15/16 | \$206.31 | DWRRSS15/16 | \$212.15 |
| 1" | 2-1/2" | 1/2" | 5 | DWRRS1INCH | \$169.93 | DWRRSS1INCH | \$171.02 |
| 1-1/16" | 2-3/4" | 5/8" | 6 | DWRRS1-1/16 | \$180.24 | DWRRSS1-1/16 | \$173.42 |
| 1-1/8" | 2-3/4" | 5/8" | 6 | DWRRS1-1/8 | \$164.17 | DWRRSS1-1/8 | \$184.73 |
| 1-3/16" | 2-3/4" | 5/8" | 6 | DWRRS1-3/16 | \$174.79 | DWRRSS1-3/16 | \$198.10 |
| 1-1/4" | 2-3/4" | 5/8" | 6 | DWRRS1-1/4 | \$185.07 | DWRRSS1-1/4 | \$181.65 |
| 1-5/16" | 3" | 3/4" | 7 | DWRRS1-5/16 | \$198.76 | DWRRSS1-5/16 | \$197.75 |
| 1-3/8" | 3" | 3/4" | 7 | DWRRS1-3/8 | \$213.47 | DWRRSS1-3/8 | \$211.12 |
| 1-7/16" | 3" | 3/4" | 7 | DWRRS1-7/16 | \$219.67 | DWRRSS1-7/16 | \$224.83 |
| 1-1/2" | 3" | 3/4" | 7 | DWRRS1-1/2 | \$232.33 | DWRRSS1-1/2 | \$230.32 |
| 1-9/16" | 3" | 3/4" | 7 | DWRRS1-9/16 | \$255.65 | DWRRSS1-9/16 | \$252.94 |
| 1-5/8" | 3" | 3/4" | 7 | DWRRS1-5/8 | \$275.54 | DWRRSS1-5/8 | \$271.79 |
| 1-11/16" | 3-1/2" | 1" | 8 | DWRRS1-11/16 | \$297.78 | DWRRSS1-11/16 | \$294.75 |
| 1-3/4" | 3-1/2" | 1" | 8 | DWRRS1-3/4 | \$325.55 | DWRRSS1-3/4 | \$322.17 |
| 1-13/16" | 3-1/2" | 1" | 8 | DWRRS1-13/16 | \$347.82 | DWRRSS1-13/16 | \$344.45 |
| 1-7/8" | 3-1/2" | 1" | 8 | DWRRS1-7/8 | \$371.81 | DWRRSS1-7/8 | \$368.43 |
| 1-15/16" | 3-1/2" | 1" | 8 | DWRRS1-15/16 | \$392.37 | DWRRSS1-15/16 | \$389.00 |
| 2" | 3-1/2" | 1" | 8 | DWRRS2INCH | \$419.82 | DWRRSS2INCH | \$414.71 |
| 2-1/16" | 3-3/4" | 1-1/4" | 9 | DWRRS2-1/16 | \$450.13 | DWRRSS2-1/16 | \$535.66 |
| 2-1/8" | 3-3/4" | 1-1/4" | 9 | DWRRS2-1/8 | \$474.54 | DWRRSS2-1/8 | \$563.58 |
| 2-3/16" | 3-3/4" | 1-1/4" | 9 | DWRRS2-3/16 | \$600.16 | DWRRSS2-3/16 | \$593.24 |
| 2-1/4" | 3-3/4" | 1-1/4" | 9 | DWRRS2-1/4 | \$521.64 | DWRRSS2-1/4 | \$621.15 |
| 2-5/16" | 3-3/4" | 1-1/4" | 9 | DWRRS2-5/16 | \$655.98 | DWRRSS2-5/16 | \$650.81 |
| 2-3/8" | 3-3/4" | 1-1/4" | 9 | DWRRS2-3/8 | \$567.00 | DWRRSS2-3/8 | \$675.25 |
| 2-7/16" | 3-3/4" | 1-1/4" | 9 | DWRRS2-7/16 | \$710.07 | DWRRSS2-7/16 | \$699.67 |
| 2-1/2" | 3-3/4" | 1-1/4" | 9 | DWRRS2-1/2 | \$615.84 | DWRRSS2-1/2 | \$608.94 |
| 2-9/16" | 4" | 1-1/2" | 10 | DWRRS2-9/16 | \$647.24 | DWRRSS2-9/16 | \$769.46 |
| 2-5/8" | 4" | 1-1/2" | 10 | DWRRS2-5/8 | \$689.10 | DWRRSS2-5/8 | \$814.83 |
| 2-11/16" | 4" | 1-1/2" | 10 | DWRRS2-11/16 | \$837.42 | DWRRSS2-11/16 | \$828.79 |
| 2-3/4" | 4" | 1-1/2" | 10 | DWRRS2-3/4 | \$921.15 | DWRRSS2-3/4 | \$912.53 |
| 2-13/16" | 4" | 1-1/2" | 10 | DWRRS2-13/16 | \$966.47 | DWRRSS2-13/16 | \$956.16 |
| 2-7/8" | 4" | 1-1/2" | 10 | DWRRS2-7/8 | \$1,024.08 | DWRRSS2-7/8 | \$1,013.74 |
| 2-15/16" | 4" | 1-1/2" | 10 | DWRRS2-15/16 | \$1,076.42 | DWRRSS2-15/16 | \$1,067.82 |
| 3" | 4" | 1-1/2" | 10 | DWRRS3INCH | \$952.56 | DWRRSS3INCH | \$947.43 |



SHELL REAMER ARBORS

| | | | | DWSRASS Series | | DWSRATS Series | | |
|------|-------------------|------------|--------|----------------|------------|----------------|-------|------------|
| Size | Fits Reamer Sizes | Shank Dia. | O.A.L. | Part Number | List Price | Part Number | Shank | List Price |
| 4 | 21/32"-25/32" | 1/2" | 9" | DWSRASS4SS | \$89.56 | DWSRATS4TS | 2MT | \$119.17 |
| 5 | 13/16"-1-1/32" | 5/8" | 9-1/2" | DWSRASS5SS | \$99.62 | DWSRATS5TS | 2MT | \$131.02 |
| 6 | 1-1/16"-1-9/32" | 3/4" | 10" | DWSRASS6SS | \$109.21 | DWSRATS6TS | 3MT | \$142.89 |
| 7 | 1-5/16"-1-21/32" | 7/8" | 11" | DWSRASS7SS | \$120.10 | DWSRATS7TS | 3MT | \$155.46 |
| 8 | 1-11/16"-2" | 1-1/8" | 12" | DWSRASS8SS | \$133.53 | DWSRATS8TS | 4MT | \$206.58 |
| 9 | 2-1/16"-2-1/2" | 1-3/8" | 13" | DWSRASS9SS | \$161.22 | DWSRATS9TS | 4MT | \$217.92 |
| 10 | 2-9/16"-3" | 1-5/8" | 14" | DWSRASS10SS | \$231.93 | DWSRATS10TS | 5MT | \$293.29 |
| 11 | 3-1/16"-3-1/2" | 2" | 15" | DWSRASS11SS | \$341.80 | DWSRATS11TS | 5MT | \$422.92 |
| 12 | 3-9/16"-4" | 2-1/8" | 16" | DWSRASS12SS | \$415.65 | DWSRATS12TS | 5MT | \$479.80 |



REAMERS

SOLID CARBIDE

FRACTIONAL SIZES

DMOR Series

| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
|--------|-------------|--------------|--------|-------------|------------|
| 1/16" | .0625 | 1/2" | 2-1/2" | DMOR1/16 | \$50.86 |
| 5/64" | .0781 | 3/4" | 3" | DMOR5/64 | \$53.49 |
| 3/32" | .0938 | 3/4" | 3" | DMOR3/32 | \$53.49 |
| 7/64" | .1094 | 7/8" | 3-1/2" | DMOR7/64 | \$56.40 |
| 1/8" | .1250 | 7/8" | 3-1/2" | DMOR1/8 | \$46.49 |
| 9/64" | .1406 | 1" | 4" | DMOR9/64 | \$64.02 |
| 5/32" | .1563 | 1" | 4" | DMOR5/32 | \$78.95 |
| 11/64" | .1719 | 1-1/8" | 4-1/2" | DMOR11/64 | \$74.45 |
| 3/16" | .1875 | 1-1/8" | 4-1/2" | DMOR3/16 | \$80.75 |
| 13/64" | .2031 | 1-1/4" | 5" | DMOR13/64 | \$86.63 |
| 7/32" | .2188 | 1-1/4" | 5" | DMOR7/32 | \$95.11 |
| 15/64" | .2344 | 1-1/2" | 6" | DMOR15/64 | \$102.45 |

DMOR Series

| Size | Dec. Equiv. | Flute Length | O.A.L. | Part Number | List Price |
|--------|-------------|--------------|--------|-------------|------------|
| 1/4" | .2500 | 1-1/2" | 6" | DMOR1/4 | \$110.24 |
| 17/64" | .2656 | 1-1/2" | 6" | DMOR17/64 | \$123.48 |
| 9/32" | .2813 | 1-1/2" | 6" | DMOR9/32 | \$138.58 |
| 19/64" | .2969 | 1-1/2" | 6" | DMOR19/64 | \$150.36 |
| 5/16" | .3125 | 1-1/2" | 6" | DMOR5/16 | \$156.67 |
| 21/64" | .3281 | 1-1/2" | 6" | DMOR21/64 | \$169.95 |
| 11/32" | .3438 | 1-1/2" | 6" | DMOR11/32 | \$176.54 |
| 23/64" | .3594 | 1-3/4" | 7" | DMOR23/64 | \$181.32 |
| 3/8" | .3750 | 1-3/4" | 7" | DMOR3/8 | \$190.92 |
| 25/64" | .3906 | 1-3/4" | 7" | DMOR25/64 | \$197.33 |
| 7/16" | .4375 | 1-3/4" | 7" | DMOR7/16 | \$227.16 |
| 1/2" | .5000 | 2" | 8" | DMOR1/2 | \$244.50 |



CUTTERS

T - S L O T C U T T E R S

DWCA Series

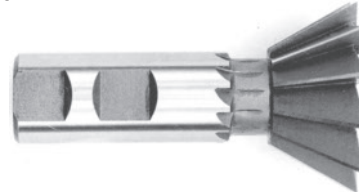
| Bolt Size | Shank Dia. | O.A.L. | Part Number | List Price |
|-----------|------------|----------|-------------|------------|
| 1/4" | 1/2" | 2-19/32" | DWCA1310 | \$99.17 |
| 5/16" | 1/2" | 2-11/16" | DWCA1312 | \$107.74 |
| 3/8" | 3/4" | 3-1/4" | DWCA1314 | \$155.75 |
| 1/2" | 3/4" | 3-7/16" | DWCA1316 | \$178.38 |
| 5/8" | 1" | 3-15/16" | DWCA1318 | \$240.30 |
| 3/4" | 1" | 4-7/16" | DWCA1320 | \$260.07 |
| 1" | 1-1/4" | 4-13/16" | DWCA1322 | \$449.36 |
| 1-1/4" | 1-1/4" | 5-3/8" | DWCA1324 | \$648.22 |
| 1-1/2" | 1-1/4" | 5-29/32" | DWCA1326 | \$828.58 |



D O V E T A I L C U T T E R S

DWCA Series

| Cutter Dia. | Shank Dia. | O.A.L. | 45° Part No. | 60° Part No. | List Price |
|-------------|------------|--------|--------------|--------------|------------|
| 3/8" | 3/8" | 2-1/8" | DWCA1406-45 | DWCA1406-60 | \$65.59 |
| 1/2" | 3/8" | 2-1/8" | DWCA1408-45 | DWCA1408-60 | \$68.90 |
| 3/4" | 3/8" | 2-1/4" | DWCA1410-45 | DWCA1410-60 | \$72.88 |
| 1-3/8" | 5/8" | 2-7/8" | DWCA1420-45 | DWCA1420-60 | \$128.03 |
| 1-7/8" | 7/8" | 3-1/4" | DWCA1430-45 | DWCA1430-60 | \$236.38 |
| 2-1/4" | 1" | 3-3/4" | DWCA1440-45 | DWCA1440-60 | \$297.84 |



S H A N K T Y P E W O O D R U F F K E Y S E A T 1 / 2 " S H A N K

DWCWC Series

| Dia. | Face Width | Part Number | List Price |
|-------|------------|--------------|------------|
| 1/4" | 1/16" | DWCWC202 | \$45.72 |
| 5/16" | 1/16" | DWCWC202-1/2 | \$45.72 |
| 3/8" | 1/16" | DWCWC203 | \$45.72 |
| 1/2" | 1/16" | DWCWC204 | \$45.72 |
| 5/16" | 3/32" | DWCWC302-1/2 | \$45.72 |
| 3/8" | 3/32" | DWCWC303 | \$45.72 |
| 1/2" | 3/32" | DWCWC304 | \$45.72 |
| 5/8" | 3/32" | DWCWC305 | \$45.72 |
| 3/8" | 1/8" | DWCWC403 | \$45.72 |
| 1/2" | 1/8" | DWCWC404 | \$45.72 |
| 5/8" | 1/8" | DWCWC405 | \$45.72 |
| 3/4" | 1/8" | DWCWC406 | \$45.72 |
| 5/8" | 5/32" | DWCWC505 | \$45.72 |

DWCWC Series

| Dia. | Face Width | Part Number | List Price |
|--------|------------|-------------|------------|
| 3/4" | 5/32" | DWCWC506 | \$51.02 |
| 7/8" | 5/32" | DWCWC507 | \$52.18 |
| 5/8" | 3/16" | DWCWC605 | \$45.72 |
| 3/4" | 3/16" | DWCWC606 | \$51.02 |
| 7/8" | 3/16" | DWCWC607 | \$54.69 |
| 1" | 3/16" | DWCWC608 | \$57.34 |
| 1-1/8" | 3/16" | DWCWC609 | \$69.41 |
| 1-1/4" | 3/16" | DWCWC610 | \$69.41 |
| 1-1/4" | 7/32" | DWCWC710 | \$76.34 |
| 3/4" | 1/4" | DWCWC806 | \$51.02 |
| 7/8" | 1/4" | DWCWC807 | \$56.98 |
| 1" | 1/4" | DWCWC808 | \$63.76 |
| 1-1/8" | 1/4" | DWCWC809 | \$69.41 |

DWCWC Series

| Dia. | Face Width | Part Number | List Price |
|--------|------------|-------------|------------|
| 1-1/4" | 1/4" | DWCWC810 | \$76.34 |
| 1-3/8" | 1/4" | DWCWC811 | \$75.02 |
| 1-1/2" | 1/4" | DWCWC812 | \$76.34 |
| 1" | 5/16" | DWCWC1008 | \$67.43 |
| 1-1/8" | 5/16" | DWCWC1009 | \$72.58 |
| 1-1/4" | 5/16" | DWCWC1010 | \$82.67 |
| 1-3/8" | 5/16" | DWCWC1011 | \$90.26 |
| 1-1/2" | 5/16" | DWCWC1012 | \$88.48 |
| 1" | 3/8" | DWCWC1208 | \$69.41 |
| 1-1/4" | 3/8" | DWCWC1210 | \$82.67 |
| 1-3/8" | 3/8" | DWCWC1211 | \$88.48 |
| 1-1/2" | 3/8" | DWCWC1212 | \$90.26 |

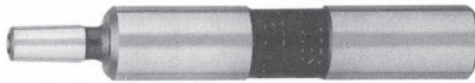
MACHINE TOOL ACCESSORIES DRILL CHUCK ARBORS

STRAIGHT SHANK TO JACOBS TAPER

| DEW Series | | | |
|------------|--------------|-------------|------------|
| Shank Dia. | Jacobs Taper | Part Number | List Price |
| 1/2" | 0JT | DEWA4000 | \$17.95 |
| 1/2" | 1JT | DEWA4001 | \$17.95 |
| 1/2" | 2JT | DEWA4002 | \$17.95 |
| 1/2" | 3JT | DEWA4003 | \$17.95 |
| 1/2" | 4JT | DEWA4004 | \$17.95 |
| 1/2" | 6JT | DEWA4006 | \$17.95 |
| 1/2" | 33JT | DEWA4033 | \$17.95 |
| 5/8" | 1JT | DEWA4101 | \$17.95 |

| DEW Series | | | |
|------------|--------------|-------------|------------|
| Shank Dia. | Jacobs Taper | Part Number | List Price |
| 5/8" | 2JT | DEWA4102 | \$17.95 |
| 5/8" | 3JT | DEWA4103 | \$17.95 |
| 5/8" | 4JT | DEWA4104 | \$17.95 |
| 5/8" | 6JT | DEWA4106 | \$17.95 |
| 5/8" | 33JT | DEWA4133 | \$17.95 |
| 3/4" | 2JT | DEWA4202 | \$28.42 |
| 3/4" | 3JT | DEWA4203 | \$28.42 |
| 3/4" | 4JT | DEWA4204 | \$28.42 |

| DEW Series | | | |
|------------|--------------|-------------|------------|
| Shank Dia. | Jacobs Taper | Part Number | List Price |
| 3/4" | 6JT | DEWA4206 | \$28.42 |
| 3/4" | 33JT | DEWA4233 | \$28.42 |
| 1" | 3JT | DEWA4303 | \$31.86 |
| 1" | 4JT | DEWA4304 | \$31.86 |
| 1" | 6JT | DEWA4306 | \$31.86 |
| 1" | 33JT | DEWA4333 | \$31.86 |



TAPER SHANK TO JACOBS TAPER

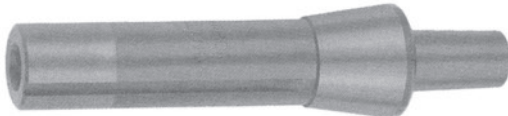
| DEW Series | | | |
|------------|--------------|-------------|------------|
| Shank | Jacobs Taper | Part Number | List Price |
| 1MT | 1JT | DEWA0101 | \$20.91 |
| 1MT | 2JT | DEWA0102 | \$20.91 |
| 1MT | 3JT | DEWA0103 | \$23.40 |
| 1MT | 4JT | DEWA0104 | \$23.40 |
| 1MT | 6JT | DEWA0106 | \$23.40 |
| 1MT | 33JT | DEWA0133 | \$23.40 |
| 2MT | 0JT | DEWA0200 | \$23.40 |
| 2MT | 1JT | DEWA0201 | \$20.45 |
| 2MT | 2JT | DEWA0202 | \$19.45 |
| 2MT | 3JT | DEWA0203 | \$19.45 |

| DEW Series | | | |
|------------|--------------|-------------|------------|
| Shank | Jacobs Taper | Part Number | List Price |
| 2MT | 4JT | DEWA0204 | \$24.83 |
| 2MT | 6JT | DEWA0206 | \$26.05 |
| 2MT | 33JT | DEWA0233 | \$19.45 |
| 3MT | 1JT | DEWA0301 | \$26.05 |
| 3MT | 2JT | DEWA0302 | \$26.05 |
| 3MT | 3JT | DEWA0303 | \$26.05 |
| 3MT | 4JT | DEWA0304 | \$26.05 |
| 3MT | 5JT | DEWA0305 | \$26.05 |
| 3MT | 6JT | DEWA0306 | \$26.05 |
| 3MT | 33JT | DEWA0333 | \$26.05 |

| DEW Series | | | |
|------------|--------------|-------------|------------|
| Shank | Jacobs Taper | Part Number | List Price |
| 4MT | 2JT | DEWA0402 | \$44.75 |
| 4MT | 3JT | DEWA0403 | \$42.32 |
| 4MT | 4JT | DEWA0404 | \$42.32 |
| 4MT | 5JT | DEWA0405 | \$44.75 |
| 4MT | 6JT | DEWA0406 | \$42.32 |
| 4MT | 33JT | DEWA0433 | \$44.75 |
| 5MT | 3JT | DEWA0503 | \$71.97 |
| 5MT | 4JT | DEWA0504 | \$71.97 |
| 5MT | 5JT | DEWA0505 | \$71.97 |
| 5MT | 6JT | DEWA0506 | \$71.97 |

R8 SHANK TO JACOBS TAPER

| DEW Series | | | |
|--------------|-------------|------------|--|
| Jacobs Taper | Part Number | List Price | |
| 1JT | DEWA0801 | \$54.18 | |
| 2JT | DEWA0802 | \$54.18 | |
| 3JT | DEWA0803 | \$54.18 | |
| 4JT | DEWA0804 | \$54.18 | |
| 5JT | DEWA0805 | \$54.18 | |
| 6JT | DEWA0806 | \$54.18 | |
| 33JT | DEWA0833 | \$54.18 | |



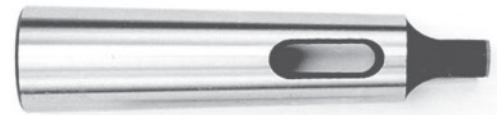
DRIFT KEYS

| DWDDRIFT Series | | | | |
|-----------------|--------------|---------------|-------------|------------|
| Size | Hole Fitting | Length Inches | Part Number | List Price |
| NO.1 | 1 | 4-1/2" | DWDDRIFTS1 | \$7.72 |
| NO.2 | 2 | 5-1/4" | DWDDRIFTS2 | \$8.27 |
| NO.3 | 3 | 6" | DWDDRIFTS3 | \$10.47 |
| NO.4 | 4,5,6 | 7" | DWDDRIFTS4 | \$13.23 |



MORSE TAPER SLEEVES

| DEW Series | | | | |
|------------|-----------|------------|-------------|------------|
| Size No. | Hole Size | Shank Dia. | Part Number | List Price |
| 1-2 | 1MT | 2MT | DEWS1-2 | \$12.44 |
| 1-3 | 1MT | 3MT | DEWS1-3 | \$17.23 |
| 1-4 | 1MT | 4MT | DEWS1-4 | \$26.69 |
| 1-5 | 1MT | 5MT | DEWS1-5 | \$42.73 |
| 2-3 | 2MT | 3MT | DEWS2-3 | \$17.23 |
| 2-4 | 2MT | 4MT | DEWS2-4 | \$26.69 |
| 2-5 | 2MT | 5MT | DEWS2-5 | \$42.73 |
| 3-4 | 3MT | 4MT | DEWS3-4 | \$26.69 |
| 3-5 | 3MT | 5MT | DEWS3-5 | \$42.73 |
| 4-5 | 4MT | 5MT | DEWS4-5 | \$42.73 |
| 4-6 | 4MT | 6MT | DEWS4-6 | \$122.08 |
| 5-6 | 5MT | 6MT | DEWS5-6 | \$132.02 |



MACHINE TOOL ACCESSORIES

EXTENSION SOCKETS

DEW Series

| Size No. | Hole Size | Shank Dia. | Part Number | List Price |
|----------|-----------|------------|-------------|------------|
| 1-2 | 1MT | 2MT | DEWES1-2 | \$39.60 |
| 1-3 | 1MT | 3MT | DEWES1-3 | \$43.06 |
| 1-4 | 1MT | 4MT | DEWES1-4 | \$60.61 |
| 1-5 | 1MT | 5MT | DEWES1-5 | \$86.78 |
| 2-1 | 2MT | 1MT | DEWES2-1 | \$39.60 |
| 2-2 | 2MT | 2MT | DEWES2-2 | \$39.60 |
| 2-3 | 2MT | 3MT | DEWES2-3 | \$43.06 |
| 2-4 | 2MT | 4MT | DEWES2-4 | \$54.33 |
| 2-5 | 2MT | 5MT | DEWES2-5 | \$100.88 |
| 3-1 | 3MT | 1MT | DEWES3-1 | \$54.33 |
| 3-2 | 3MT | 2MT | DEWES3-2 | \$54.33 |

DEW Series

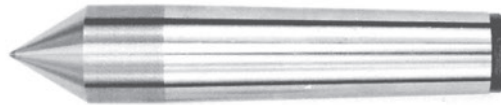
| Size No. | Hole Size | Shank Dia. | Part Number | List Price |
|----------|-----------|------------|-------------|------------|
| 3-3 | 3MT | 3MT | DEWES3-3 | \$54.33 |
| 3-4 | 3MT | 4MT | DEWES3-4 | \$54.33 |
| 3-5 | 3MT | 5MT | DEWES3-5 | \$100.88 |
| 4-2 | 4MT | 2MT | DEWES4-2 | \$86.78 |
| 4-3 | 4MT | 3MT | DEWES4-3 | \$86.78 |
| 4-4 | 4MT | 4MT | DEWES4-4 | \$86.78 |
| 4-5 | 4MT | 5MT | DEWES4-5 | \$100.88 |
| 4-6 | 4MT | 6MT | DEWES4-6 | \$254.91 |
| 5-4 | 5MT | 4MT | DEWES5-4 | \$193.96 |
| 5-5 | 5MT | 5MT | DEWES5-5 | \$193.96 |
| 5-6 | 5MT | 6MT | DEWES5-6 | \$254.91 |



DEAD CENTERS

DEW Series

| Taper # | Large End | Small End | Taper Length | O.A.L. | DEW Series | | DEW Series | |
|---------|-----------|-----------|--------------|---------|----------------------------|------------|-----------------|------------|
| | | | | | Carbide Tipped Part Number | List Price | HSS Part Number | List Price |
| 1MT | .4750 | .3760 | 2-1/8" | 3-5/16" | DEWX712-1CT | \$30.86 | DEWX712-1HS | \$30.86 |
| 2MT | .7000 | .5790 | 2-9/16" | 4-3/16" | DEWX714-2CT | \$37.47 | DEWX714-2HS | \$36.43 |
| 3MT | .9380 | .7850 | 3-3/16" | 5-1/4" | DEWX716-3CT | \$68.45 | DEWX716-3HS | \$66.56 |
| 4MT | 1.2310 | 1.0270 | 4-1/16" | 6-3/4" | DEWX718-4CT | \$104.83 | DEWX718-4HS | \$97.16 |
| 5MT | 1.7480 | 1.4820 | 5-3/16" | 8-1/2" | DEWX720-5CT | \$168.31 | DEWX720-5HS | \$166.63 |
| 6MT | 2.4940 | 2.1300 | 7-1/8" | 11-3/4" | DEWX722-6CT | \$431.95 | DEWX722-6HS | \$470.53 |



DEW Series

| Size | Part Number | List Price |
|------|-------------|------------|
| 1MT | DEW1MT | \$96.86 |
| 2MT | DEW2MT | \$113.72 |
| 3MT | DEW3MT | \$133.61 |
| 4MT | DEW4MT | \$177.22 |
| 5MT | DEW5MT | \$302.29 |
| 6MT | DEW6MT | \$776.00 |

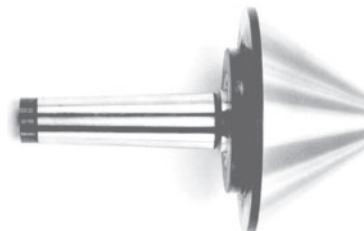
LIVE CENTERS



BULL-NOSE LIVE CENTERS

DEW Series

| Taper # | Small End | Large End | HSS Part Number | List Price |
|---------|-----------|-----------|-----------------|------------|
| 2MT | 7/8" | 2-3/8" | DEW2MT-BULL | \$279.34 |
| 3MT | 1-1/8" | 4" | DEW3MT-BULL | \$361.80 |
| 4MT | 2" | 5" | DEW4MT-BULL | \$799.09 |
| 5MT | 2" | 6" | DEW5MT-BULL | \$1,034.24 |
| 6MT | 2" | 6" | DEW6MT-BULL | \$1,814.69 |



HSS END MILLS

4 FLUTE DOUBLE END



BRC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 1/8" | 3/8" | 3/8" | 3-1/8" | BRCF204 | \$30.27 |
| 5/32" | 3/8" | 7/16" | 3-1/8" | BRCF205 | \$30.27 |
| 3/16" | 3/8" | 1/2" | 3-1/4" | BRCF206 | \$30.27 |
| 7/32" | 3/8" | 9/16" | 3-1/4" | BRCF207 | \$30.27 |
| 1/4" | 3/8" | 5/8" | 3-3/8" | BRCF208 | \$29.88 |
| 9/32" | 3/8" | 11/16" | 3-3/8" | BRCF209 | \$30.66 |
| 5/16" | 3/8" | 3/4" | 3-1/2" | BRCF210 | \$29.88 |
| 11/32" | 3/8" | 3/4" | 3-1/2" | BRCF211 | \$30.66 |
| 3/8" | 3/8" | 3/4" | 3-1/2" | BRCF212 | \$29.88 |
| 13/32" | 1/2" | 1" | 4-1/8" | BRCF213 | \$44.24 |
| 7/16" | 1/2" | 1" | 4-1/8" | BRCF214 | \$44.46 |
| 15/32" | 1/2" | 1" | 4-1/8" | BRCF215 | \$45.16 |
| 1/2" | 1/2" | 1" | 4-1/8" | BRCF218 | \$44.46 |
| 9/16" | 5/8" | 1-3/8" | 5" | BRCF220 | \$63.01 |
| 5/8" | 5/8" | 1-3/8" | 5" | BRCF228 | \$63.01 |
| 11/16" | 3/4" | 1-5/8" | 5-5/8" | BRCF230 | \$68.07 |
| 3/4" | 3/4" | 1-5/8" | 5-5/8" | BRCF232 | \$79.02 |
| 13/16" | 7/8" | 1-7/8" | 6-1/8" | BRCF234 | \$89.24 |
| 7/8" | 7/8" | 1-7/8" | 6-1/8" | BRCF242 | \$104.40 |
| 15/16" | 1" | 1-7/8" | 6-3/8" | BRCF244 | \$111.78 |
| 1" | 1" | 1-7/8" | 6-3/8" | BRCF252 | \$126.46 |

2 FLUTE DOUBLE END



BRC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 1/8" | 3/8" | 3/8" | 3-1/8" | BRCT204 | \$31.05 |
| 5/32" | 3/8" | 7/16" | 3-1/8" | BRCT205 | \$31.05 |
| 3/16" | 3/8" | 7/16" | 3-1/8" | BRCT206 | \$31.05 |
| 7/32" | 3/8" | 1/2" | 3-1/8" | BRCT207 | \$31.05 |
| 1/4" | 3/8" | 1/2" | 3-1/8" | BRCT208 | \$31.05 |
| 9/32" | 3/8" | 9/16" | 3-1/8" | BRCT209 | \$31.05 |
| 5/16" | 3/8" | 9/16" | 3-1/8" | BRCT210 | \$31.05 |
| 11/32" | 3/8" | 9/16" | 3-1/8" | BRCT211 | \$31.05 |
| 3/8" | 3/8" | 9/16" | 3-1/8" | BRCT212 | \$31.05 |
| 13/32" | 1/2" | 13/16" | 3-3/4" | BRCT213 | \$48.22 |
| 7/16" | 1/2" | 13/16" | 3-3/4" | BRCT214 | \$48.22 |
| 1/2" | 1/2" | 13/16" | 3-3/4" | BRCT218 | \$48.22 |
| 9/16" | 5/8" | 1-1/8" | 4-1/2" | BRCT220 | \$66.70 |
| 5/8" | 5/8" | 1-1/8" | 4-1/2" | BRCT228 | \$66.70 |
| 11/16" | 3/4" | 1-5/16" | 5" | BRCT230 | \$83.49 |
| 3/4" | 3/4" | 1-5/16" | 5" | BRCT232 | \$83.49 |
| 13/16" | 7/8" | 1-9/16" | 5-1/2" | BRCT234 | \$108.80 |
| 7/8" | 7/8" | 1-9/16" | 5-1/2" | BRCT242 | \$108.80 |
| 15/16" | 1" | 1-5/8" | 5-7/8" | BRCT244 | \$135.14 |
| 1" | 1" | 1-5/8" | 5-7/8" | BRCT252 | \$135.14 |

MULTI FLUTE SINGLE END



BRC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|----------|-------------|------------|
| 1/8" | 3/8" | 3/8" | 2-5/16" | BRCF304 | \$22.56 |
| 5/32" | 3/8" | 7/16" | 2-3/8" | BRCF305 | \$23.71 |
| 3/16" | 3/8" | 1/2" | 2-3/8" | BRCF306 | \$22.56 |
| 7/32" | 3/8" | 9/16" | 2-7/16" | BRCF307 | \$23.71 |
| 1/4" | 3/8" | 5/8" | 2-7/16" | BRCF308 | \$22.56 |
| 9/32" | 3/8" | 11/16" | 2-1/2" | BRCF309 | \$23.71 |
| 5/16" | 3/8" | 3/4" | 2-1/2" | BRCF310 | \$22.56 |
| 11/32" | 3/8" | 3/4" | 2-1/2" | BRCF311 | \$23.71 |
| 3/8" | 3/8" | 3/4" | 2-1/2" | BRCF312 | \$22.56 |
| 13/32" | 3/8" | 1" | 2-11/16" | BRCF313 | \$33.51 |
| 7/16" | 3/8" | 1" | 2-11/16" | BRCF314 | \$31.01 |
| 1/2" | 3/8" | 1" | 2-11/16" | BRCF316 | \$31.01 |
| 1/2" | 1/2" | 1-1/4" | 3-1/4" | BRCF318 | \$31.01 |
| 9/16" | 1/2" | 1-3/8" | 3-3/8" | BRCF320 | \$40.15 |
| 5/8" | 1/2" | 1-3/8" | 3-3/8" | BRCF322 | \$43.69 |
| 5/8" | 5/8" | 1-5/8" | 3-3/4" | BRCF328 | \$49.11 |
| 11/16" | 5/8" | 1-5/8" | 3-3/4" | BRCF330 | \$50.67 |
| 3/4" | 1/2" | 1-5/8" | 3-5/8" | BRCF326 | \$49.40 |
| 3/4" | 5/8" | 1-5/8" | 3-3/4" | BRCF332 | \$52.42 |
| 3/4" | 3/4" | 1-5/8" | 3-7/8" | BRCF341 | \$54.64 |
| 7/8" | 5/8" | 1-7/8" | 4" | BRCF336 | \$71.40 |
| 7/8" | 3/4" | 1-7/8" | 4-1/8" | BRCF341B | \$70.25 |
| 7/8" | 7/8" | 1-7/8" | 4-1/8" | BRCF342 | \$70.25 |
| 15/16" | 5/8" | 1-7/8" | 4" | BRCF338 | \$80.25 |
| 1" | 5/8" | 1-7/8" | 4" | BRCF340 | \$81.21 |
| 1" | 3/4" | 1-7/8" | 4-1/8" | BRCF345 | \$79.91 |
| 1" | 1" | 2" | 4-1/2" | BRCF352 | \$81.21 |
| 1-1/8" | 3/4" | 2" | 4-1/2" | BRCF347 | \$116.53 |
| 1-1/8" | 1" | 2" | 4-1/2" | BRCF354 | \$116.53 |
| 1-1/4" | 3/4" | 2" | 4-1/2" | BRCF349 | \$125.66 |
| 1-1/4" | 1" | 2" | 4-1/2" | BRCF356 | \$126.84 |
| 1-1/4" | 1-1/4" | 2" | 4-1/2" | BRCF362 | \$126.84 |
| 1-3/8" | 3/4" | 2" | 4-1/2" | BRCF351 | \$205.51 |
| 1-1/2" | 3/4" | 2" | 4-1/2" | BRCF351A | \$223.36 |

2 FLUTE SINGLE END



BRC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|----------|-------------|------------|
| 1/8" | 3/8" | 3/8" | 2-5/16" | BRCT304 | \$21.24 |
| 5/32" | 3/8" | 3/8" | 2-3/8" | BRCT305 | \$21.24 |
| 3/16" | 3/8" | 7/16" | 2-3/8" | BRCT306 | \$21.24 |
| 7/32" | 3/8" | 7/16" | 2-7/16" | BRCT307 | \$21.24 |
| 1/4" | 3/8" | 1/2" | 2-7/16" | BRCT308 | \$21.24 |
| 9/32" | 3/8" | 9/16" | 2-1/2" | BRCT309 | \$23.73 |
| 5/16" | 3/8" | 9/16" | 2-1/2" | BRCT310 | \$21.24 |
| 3/8" | 3/8" | 9/16" | 2-1/2" | BRCT312 | \$21.24 |
| 7/16" | 3/8" | 13/16" | 2-11/16" | BRCT314 | \$27.52 |
| 1/2" | 3/8" | 13/16" | 2-11/16" | BRCT316 | \$27.52 |
| 1/2" | 1/2" | 1" | 3-1/4" | BRCT318 | \$31.02 |
| 9/16" | 1/2" | 1-1/8" | 3-3/8" | BRCT320 | \$38.93 |
| 5/8" | 1/2" | 1-1/8" | 3-3/8" | BRCT322 | \$43.57 |
| 5/8" | 5/8" | 1-5/16" | 3-3/4" | BRCT328 | \$43.57 |
| 11/16" | 5/8" | 1-5/16" | 3-3/4" | BRCT330 | \$47.10 |
| 3/4" | 1/2" | 1-5/16" | 3-5/8" | BRCT326 | \$50.25 |
| 3/4" | 5/8" | 1-5/16" | 3-3/4" | BRCT332 | \$50.25 |
| 3/4" | 3/4" | 1-5/16" | 3-3/4" | BRCT341 | \$50.25 |
| 7/8" | 5/8" | 1-1/2" | 4" | BRCT336 | \$64.81 |
| 7/8" | 3/4" | 1-1/2" | 4-1/8" | BRCT341B | \$65.03 |
| 7/8" | 7/8" | 1-1/2" | 4-1/4" | BRCT342 | \$65.03 |
| 1" | 5/8" | 1-1/2" | 4" | BRCT340 | \$72.58 |
| 1" | 3/4" | 1-1/2" | 4-1/8" | BRCT345 | \$72.58 |
| 1" | 1" | 1-5/8" | 4-1/2" | BRCT352 | \$87.77 |
| 1-1/8" | 1" | 1-5/8" | 4-1/2" | BRCT354 | \$119.67 |
| 1-1/4" | 1-1/4" | 1-5/8" | 4-1/2" | BRCT362 | \$132.87 |
| 1-1/2" | 1" | 1-5/8" | 4-1/2" | BRCT360 | \$164.96 |
| 1-1/2" | 1-1/4" | 1-5/8" | 4-1/2" | BRCT364 | \$164.96 |
| 1-3/4" | 1-1/4" | 1-5/8" | 4-1/2" | BRCT368 | \$196.68 |
| 2" | 1-1/4" | 1-5/8" | 4-1/2" | BRCT372 | \$231.43 |

HSS END MILLS

DWCT Series

These end mills are designed to machine most materials of medium hardness such as steel, brass, bronze and iron. The large core diameter provides rigidity and reduces deflection while the cutting geometry allows for rapid stock removal. They can be used for general-purpose milling including profiling and open-ended slots and keyways. They will plunge cut.

2 FLUTE SINGLE END



CENTER CUTTING

| DWCT Series | | | | | |
|-------------|------------|--------------|---------|-------------|------------|
| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
| 1/8" | 3/8" | 3/8" | 2-5/16" | DWCT304 | \$9.69 |
| 5/32" | 3/8" | 3/8" | 2-5/16" | DWCT305 | \$11.07 |
| 3/16" | 3/8" | 7/16" | 2-5/16" | DWCT306 | \$9.69 |
| 7/32" | 3/8" | 1/2" | 2-3/8" | DWCT307 | \$11.07 |
| 1/4" | 3/8" | 1/2" | 2-5/16" | DWCT308 | \$9.69 |
| 9/32" | 3/8" | 9/16" | 2-3/8" | DWCT309 | \$11.22 |
| 5/16" | 3/8" | 9/16" | 2-5/16" | DWCT310 | \$9.83 |
| 11/32" | 3/8" | 9/16" | 2-5/16" | DWCT311 | \$11.22 |
| 3/8" | 3/8" | 9/16" | 2-1/2" | DWCT312 | \$9.83 |
| 13/32" | 3/8" | 13/16" | 2-1/2" | DWCT313 | \$15.66 |
| 7/16" | 3/8" | 13/16" | 2-1/2" | DWCT314 | \$14.28 |
| 15/32" | 3/8" | 1" | 3" | DWCT315 | \$15.66 |
| 1/2" | 3/8" | 13/16" | 2-1/2" | DWCT316 | \$14.28 |
| 1/2" | 1/2" | 1" | 3" | DWCT318 | \$15.12 |
| 9/16" | 1/2" | 1-1/8" | 3-1/8" | DWCT320 | \$17.92 |
| 5/8" | 1/2" | 1-1/8" | 3-1/8" | DWCT322 | \$19.99 |
| 5/8" | 5/8" | 1-5/16" | 3-7/16" | DWCT328 | \$20.36 |
| 11/16" | 1/2" | 1-5/16" | 3-7/16" | DWCT324 | \$21.69 |
| 11/16" | 5/8" | 1-5/16" | 3-7/16" | DWCT330 | \$21.64 |
| 3/4" | 1/2" | 1-5/16" | 3-7/16" | DWCT326 | \$23.18 |
| 3/4" | 5/8" | 1-5/16" | 3-7/16" | DWCT332 | \$23.18 |
| 3/4" | 3/4" | 1-5/16" | 3-7/16" | DWCT341 | \$23.22 |
| 13/16" | 1/2" | 1-1/2" | 3-5/8" | DWCT333 | \$31.30 |
| 13/16" | 5/8" | 1-1/2" | 3-5/8" | DWCT334 | \$28.98 |
| 13/16" | 3/4" | 1-1/2" | 3-3/4" | DWCT341A | \$29.91 |
| 7/8" | 1/2" | 1-1/2" | 3-5/8" | DWCT335 | \$31.30 |
| 7/8" | 5/8" | 1-1/2" | 3-5/8" | DWCT336 | \$28.98 |
| 7/8" | 3/4" | 1-1/2" | 3-3/4" | DWCT341B | \$29.34 |
| 7/8" | 7/8" | 1-1/2" | 3-3/4" | DWCT342 | \$30.39 |
| 15/16" | 1/2" | 1-1/2" | 3-5/8" | DWCT337 | \$36.36 |

| DWCT Series | | | | | |
|-------------|------------|--------------|--------|-------------|------------|
| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
| 15/16" | 5/8" | 1-1/2" | 3-5/8" | DWCT338 | \$36.27 |
| 15/16" | 7/8" | 1-1/2" | 3-3/4" | DWCT344 | \$36.27 |
| 1" | 1/2" | 1-1/2" | 3-1/2" | DWCT339 | \$37.99 |
| 1" | 5/8" | 1-1/2" | 3-5/8" | DWCT340 | \$34.46 |
| 1" | 3/4" | 1-1/2" | 3-3/4" | DWCT345 | \$34.46 |
| 1" | 7/8" | 1-1/2" | 3-3/4" | DWCT346 | \$34.46 |
| 1" | 1" | 1-5/8" | 4-1/8" | DWCT352 | \$37.42 |
| 1-1/16" | 3/4" | 1-5/8" | 4" | DWCT346A | \$67.74 |
| 1-1/8" | 3/4" | 1-5/8" | 3-7/8" | DWCT347 | \$62.02 |
| 1-1/8" | 7/8" | 1-5/8" | 3-7/8" | DWCT348 | \$60.07 |
| 1-1/8" | 1" | 1-5/8" | 4-1/8" | DWCT354 | \$62.02 |
| 1-3/16" | 3/4" | 1-5/8" | 3-7/8" | DWCT348A | \$60.98 |
| 1-1/4" | 3/4" | 1-5/8" | 3-7/8" | DWCT349 | \$60.07 |
| 1-1/4" | 7/8" | 1-5/8" | 3-7/8" | DWCT350 | \$75.56 |
| 1-1/4" | 1" | 1-5/8" | 4-1/8" | DWCT356 | \$68.01 |
| 1-1/4" | 1-1/4" | 1-5/8" | 4-1/8" | DWCT362 | \$71.31 |
| 1-5/16" | 3/4" | 1-5/8" | 3-7/8" | DWCT350A | \$99.68 |
| 1-3/8" | 3/4" | 1-5/8" | 3-7/8" | DWCT351 | \$92.17 |
| 1-7/16" | 3/4" | 1-5/8" | 3-7/8" | DWCT351X | \$101.88 |
| 1-1/2" | 3/4" | 1-5/8" | 3-7/8" | DWCT351A | \$101.88 |
| 1-1/2" | 1" | 1-5/8" | 4-1/8" | DWCT360 | \$96.75 |
| 1-1/2" | 1-1/4" | 1-5/8" | 4-1/8" | DWCT364 | \$96.68 |
| 1-5/8" | 3/4" | 1-5/8" | 4-1/8" | DWCT365 | \$127.83 |
| 1-5/8" | 1-1/4" | 1-5/8" | 4-1/8" | DWCT366 | \$122.10 |
| 1-3/4" | 3/4" | 1-5/8" | 4-1/8" | DWCT367 | \$139.71 |
| 1-3/4" | 1-1/4" | 1-5/8" | 4-1/8" | DWCT368 | \$126.79 |
| 1-7/8" | 3/4" | 1-5/8" | 4-1/8" | DWCT369 | \$150.89 |
| 1-7/8" | 1-1/4" | 1-5/8" | 4-1/8" | DWCT370 | \$144.19 |
| 2" | 3/4" | 1-5/8" | 4-1/8" | DWCT371 | \$165.09 |
| 2" | 1-1/4" | 1-5/8" | 4-1/8" | DWCT372 | \$149.74 |

2 FLUTE DOUBLE END



CENTER CUTTING

| DWCT Series | | | | | |
|-------------|------------|--------------|---------|-------------|------------|
| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
| 1/8" | 3/8" | 3/8" | 3-1/16" | DWCT204 | \$13.10 |
| 9/64" | 3/8" | 7/16" | 3-1/8" | DWCT204A | \$15.95 |
| 5/32" | 3/8" | 7/16" | 3-1/8" | DWCT205 | \$13.87 |
| 11/64" | 3/8" | 7/16" | 3-1/8" | DWCT205A | \$15.95 |
| 3/16" | 3/8" | 7/16" | 3-1/8" | DWCT206 | \$13.10 |
| 13/64" | 3/8" | 1/2" | 3-1/8" | DWCT206A | \$15.95 |
| 7/32" | 3/8" | 1/2" | 3-1/8" | DWCT207 | \$13.10 |
| 15/64" | 3/8" | 1/2" | 3-1/8" | DWCT207A | \$15.95 |
| 1/4" | 3/8" | 1/2" | 3-1/8" | DWCT208 | \$13.36 |
| 17/64" | 3/8" | 9/16" | 3-1/8" | DWCT208A | \$15.95 |
| 9/32" | 3/8" | 9/16" | 3-1/8" | DWCT209 | \$14.18 |
| 19/64" | 3/8" | 9/16" | 3-1/8" | DWCT209A | \$15.95 |
| 5/16" | 3/8" | 9/16" | 3-1/8" | DWCT210 | \$13.10 |
| 21/64" | 3/8" | 9/16" | 3-1/8" | DWCT210A | \$15.95 |
| 11/32" | 3/8" | 9/16" | 3-1/8" | DWCT211 | \$13.87 |
| 23/64" | 3/8" | 9/16" | 3-1/8" | DWCT211A | \$15.95 |
| 3/8" | 3/8" | 9/16" | 3-1/8" | DWCT212 | \$13.36 |

| DWCT Series | | | | | |
|-------------|------------|--------------|--------|-------------|------------|
| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
| 25/64" | 1/2" | 13/16" | 3-3/4" | DWCT212A | \$22.25 |
| 13/32" | 1/2" | 13/16" | 3-3/4" | DWCT213 | \$20.47 |
| 27/64" | 1/2" | 13/16" | 3-3/4" | DWCT213A | \$22.25 |
| 7/16" | 1/2" | 13/16" | 3-3/4" | DWCT214 | \$19.74 |
| 29/64" | 1/2" | 13/16" | 3-3/4" | DWCT214A | \$24.47 |
| 15/32" | 1/2" | 13/16" | 3-3/4" | DWCT215 | \$21.09 |
| 31/64" | 1/2" | 13/16" | 3-3/4" | DWCT216 | \$24.47 |
| 1/2" | 1/2" | 13/16" | 3-3/4" | DWCT218 | \$20.27 |
| 9/16" | 5/8" | 1-1/8" | 4-1/2" | DWCT220 | \$29.49 |
| 5/8" | 5/8" | 1-1/8" | 4-1/2" | DWCT228 | \$27.66 |
| 11/16" | 3/4" | 1-5/16" | 5" | DWCT230 | \$34.80 |
| 3/4" | 3/4" | 1-5/16" | 5" | DWCT232 | \$34.80 |
| 13/16" | 7/8" | 1-9/16" | 5-1/2" | DWCT234 | \$46.61 |
| 7/8" | 7/8" | 1-9/16" | 5-1/2" | DWCT242 | \$46.61 |
| 15/16" | 1" | 1-5/8" | 5-7/8" | DWCT244 | \$57.29 |
| 1" | 1" | 1-5/8" | 5-7/8" | DWCT252 | \$57.29 |

HSS END MILLS

DWCF Series

These end mills are designed to machine most materials of medium hardness such as steel, brass, bronze and iron. The large core diameter provides rigidity and reduces deflection while the cutting geometry allows for rapid stock removal. They can be used for general-purpose milling including profiling and open-ended slots and keyways. They will not plunge cut.

M U L T I F L U T E S I N G L E E N D



DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|----------|-------------|------------|
| 1/8" | 3/8" | 3/8" | 2-5/16" | DWCF304 | \$9.35 |
| 5/32" | 3/8" | 7/16" | 2-3/8" | DWCF305 | \$10.27 |
| 3/16" | 3/8" | 1/2" | 2-3/8" | DWCF306 | \$9.35 |
| 7/32" | 3/8" | 9/16" | 2-1/2" | DWCF307 | \$10.27 |
| 1/4" | 3/8" | 5/8" | 2-1/2" | DWCF308 | \$9.35 |
| 9/32" | 3/8" | 11/16" | 2-1/2" | DWCF309 | \$10.27 |
| 5/16" | 3/8" | 3/4" | 2-1/2" | DWCF310 | \$9.35 |
| 11/32" | 3/8" | 3/4" | 2-1/2" | DWCF311 | \$10.27 |
| 3/8" | 3/8" | 3/4" | 2-1/2" | DWCF312 | \$9.35 |
| 13/32" | 3/8" | 1" | 2-11/16" | DWCF313 | \$11.42 |
| 7/16" | 3/8" | 1" | 2-11/16" | DWCF314 | \$12.63 |
| 15/32" | 3/8" | 1" | 2-11/16" | DWCF315 | \$12.88 |
| 1/2" | 3/8" | 1" | 2-11/16" | DWCF316 | \$12.63 |
| 1/2" | 1/2" | 1-1/4" | 3-1/4" | DWCF318 | \$12.88 |
| 9/16" | 1/2" | 1-3/8" | 3-3/8" | DWCF320 | \$16.21 |
| 5/8" | 1/2" | 1-3/8" | 3-3/8" | DWCF322 | \$17.74 |
| 5/8" | 5/8" | 1-5/8" | 3-3/4" | DWCF328 | \$19.27 |
| 11/16" | 1/2" | 1-5/8" | 3-5/8" | DWCF324 | \$19.19 |
| 11/16" | 5/8" | 1-5/8" | 3-3/4" | DWCF330 | \$20.47 |
| 3/4" | 1/2" | 1-5/8" | 3-5/8" | DWCF326 | \$21.24 |
| 3/4" | 5/8" | 1-5/8" | 3-3/4" | DWCF332 | \$21.41 |
| 3/4" | 3/4" | 1-5/8" | 3-3/4" | DWCF341 | \$22.01 |
| 13/16" | 1/2" | 1-5/8" | 3-5/8" | DWCF333 | \$28.72 |
| 13/16" | 5/8" | 1-7/8" | 4" | DWCF334 | \$28.79 |
| 13/16" | 3/4" | 1-7/8" | 4-1/8" | DWCF341A | \$29.29 |
| 7/8" | 1/2" | 1-5/8" | 3-5/8" | DWCF335 | \$32.45 |
| 7/8" | 5/8" | 1-7/8" | 4" | DWCF336 | \$29.58 |
| 7/8" | 3/4" | 1-7/8" | 4-1/8" | DWCF341B | \$30.64 |
| 7/8" | 7/8" | 1-7/8" | 4-1/4" | DWCF342 | \$29.58 |
| 15/16" | 1/2" | 1-7/8" | 3-7/8" | DWCF337 | \$32.45 |
| 15/16" | 5/8" | 1-7/8" | 4" | DWCF338 | \$32.62 |

NON CENTER CUTTING

DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|---------|------------|--------------|--------|-------------|------------|
| 15/16" | 3/4" | 1-7/8" | 4-1/8" | DWCF343 | \$42.41 |
| 15/16" | 7/8" | 1-7/8" | 4-1/8" | DWCF344 | \$34.91 |
| 1" | 1/2" | 1-7/8" | 4" | DWCF339 | \$34.91 |
| 1" | 5/8" | 1-7/8" | 4" | DWCF340 | \$33.96 |
| 1" | 3/4" | 1-7/8" | 4-1/8" | DWCF345 | \$33.30 |
| 1" | 7/8" | 1-7/8" | 4-1/8" | DWCF346 | \$33.30 |
| 1" | 1" | 2" | 4-1/4" | DWCF352 | \$35.25 |
| 1-1/16" | 3/4" | 2" | 4-1/4" | DWCF346A | \$48.78 |
| 1-1/8" | 3/4" | 2" | 4-1/4" | DWCF347 | \$51.98 |
| 1-1/8" | 7/8" | 2" | 4-1/4" | DWCF348 | \$51.98 |
| 1-1/8" | 1" | 2" | 4-1/2" | DWCF354 | \$53.66 |
| 1-3/16" | 3/4" | 2" | 4-1/4" | DWCF348A | \$62.18 |
| 1-1/4" | 3/4" | 2" | 4-1/4" | DWCF349 | \$56.43 |
| 1-1/4" | 7/8" | 2" | 4-1/4" | DWCF350 | \$56.43 |
| 1-1/4" | 1" | 2" | 4-1/2" | DWCF356 | \$58.55 |
| 1-1/4" | 1-1/4" | 2" | 4-1/2" | DWCF362 | \$62.65 |
| 1-5/16" | 3/4" | 2" | 4-1/2" | DWCF350A | \$74.80 |
| 1-3/8" | 3/4" | 2" | 4-1/2" | DWCF351 | \$92.17 |
| 1-7/16" | 3/4" | 2" | 4-1/2" | DWCF351X | \$93.47 |
| 1-1/2" | 3/4" | 2" | 4-1/2" | DWCF351A | \$87.18 |
| 1-1/2" | 1" | 2" | 4-1/2" | DWCF360 | \$87.18 |
| 1-1/2" | 1-1/4" | 2" | 4-1/2" | DWCF364 | \$87.18 |
| 1-5/8" | 3/4" | 2" | 4-1/2" | DWCF365 | \$109.41 |
| 1-5/8" | 1-1/4" | 2" | 4-1/2" | DWCF366 | \$104.46 |
| 1-3/4" | 3/4" | 2" | 4-1/2" | DWCF367 | \$118.21 |
| 1-3/4" | 1-1/4" | 2" | 4-1/2" | DWCF368 | \$112.77 |
| 1-7/8" | 3/4" | 2" | 4-1/2" | DWCF369 | \$127.99 |
| 1-7/8" | 1-1/4" | 2" | 4-1/2" | DWCF370 | \$121.97 |
| 2" | 3/4" | 2" | 4-1/2" | DWCF371 | \$147.20 |
| 2" | 1-1/4" | 2" | 4-1/2" | DWCF372 | \$136.50 |

4 F L U T E D O U B L E E N D N O N C E N T E R C U T T I N G



DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|---------|-------------|------------|
| 1/8" | 3/8" | 3/8" | 3-1/16" | DWCF204 | \$11.33 |
| 9/64" | 3/8" | 7/16" | 3-1/8" | DWCF204A | \$15.48 |
| 5/32" | 3/8" | 7/16" | 3-1/8" | DWCF205 | \$11.33 |
| 11/64" | 3/8" | 1/2" | 3-1/4" | DWCF205A | \$15.48 |
| 3/16" | 3/8" | 1/2" | 3-1/4" | DWCF206 | \$11.33 |
| 13/64" | 3/8" | 9/16" | 3-1/4" | DWCF206A | \$15.48 |
| 7/32" | 3/8" | 9/16" | 3-1/4" | DWCF207 | \$13.36 |
| 15/64" | 3/8" | 5/8" | 3-3/8" | DWCF207A | \$15.48 |
| 1/4" | 3/8" | 5/8" | 3-3/8" | DWCF208 | \$12.63 |
| 17/64" | 3/8" | 11/16" | 3-3/8" | DWCF208A | \$15.48 |
| 9/32" | 3/8" | 11/16" | 3-3/8" | DWCF209 | \$13.36 |
| 19/64" | 3/8" | 3/4" | 3-3/8" | DWCF209A | \$15.48 |
| 5/16" | 3/8" | 3/4" | 3-1/2" | DWCF210 | \$12.63 |
| 21/64" | 3/8" | 3/4" | 3-1/2" | DWCF210A | \$15.48 |
| 11/32" | 3/8" | 3/4" | 3-1/2" | DWCF211 | \$13.36 |
| 23/64" | 3/8" | 3/4" | 3-1/2" | DWCF211A | \$15.48 |
| 3/8" | 3/8" | 3/4" | 3-1/2" | DWCF212 | \$12.63 |

DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 25/64" | 1/2" | 1" | 4-1/8" | DWCF212A | \$20.97 |
| 13/32" | 1/2" | 1" | 4-1/8" | DWCF213 | \$18.10 |
| 27/64" | 1/2" | 1" | 4-1/8" | DWCF213A | \$20.97 |
| 7/16" | 1/2" | 1" | 4-1/8" | DWCF214 | \$19.19 |
| 29/64" | 1/2" | 1" | 4-1/8" | DWCF214A | \$23.09 |
| 15/32" | 1/2" | 1" | 4-1/8" | DWCF215 | \$19.88 |
| 31/64" | 1/2" | 1" | 4-1/8" | DWCF216 | \$23.09 |
| 1/2" | 1/2" | 1" | 4-1/8" | DWCF218 | \$19.35 |
| 9/16" | 5/8" | 1-3/8" | 5" | DWCF220 | \$26.41 |
| 5/8" | 5/8" | 1-3/8" | 5" | DWCF228 | \$25.89 |
| 11/16" | 3/4" | 1-5/8" | 5-5/8" | DWCF230 | \$32.97 |
| 3/4" | 3/4" | 1-5/8" | 5-5/8" | DWCF232 | \$33.26 |
| 13/16" | 7/8" | 1-7/8" | 6-1/8" | DWCF234 | \$44.68 |
| 7/8" | 7/8" | 1-7/8" | 6-1/8" | DWCF242 | \$44.30 |
| 15/16" | 1" | 1-7/8" | 6-3/8" | DWCF244 | \$53.14 |
| 1" | 1" | 1-7/8" | 6-3/8" | DWCF252 | \$53.14 |

HSS END MILLS

2 FLUTE SINGLE END LONG



DWCT Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-------------|------------|
| 1/4" | 3/8" | 1" | 2-3/4" | DWCTL308 | \$20.03 |
| 5/16" | 3/8" | 1-1/4" | 3" | DWCTL310 | \$20.03 |
| 3/8" | 3/8" | 1-1/2" | 3-1/4" | DWCTL312 | \$20.03 |
| 1/2" | 1/2" | 2" | 4" | DWCTL318 | \$20.26 |
| 5/8" | 5/8" | 2" | 4-1/8" | DWCTL328 | \$29.80 |

DWCT Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 3/4" | 3/4" | 2-1/4" | 4-1/2" | DWCTL332 | \$36.79 |
| 7/8" | 7/8" | 2-1/2" | 4-3/4" | DWCTL342 | \$49.45 |
| 1" | 1" | 3" | 5-1/2" | DWCTL352 | \$63.21 |
| 1-1/4" | 1-1/4" | 3" | 5-1/2" | DWCTL354 | \$99.78 |

2 FLUTE SINGLE END BALL



DWCT Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-------------|------------|
| 1/8" | 3/8" | 3/8" | 2-1/4" | DWCT1104 | \$23.93 |
| 3/16" | 3/8" | 1/2" | 2-3/8" | DWCT1106 | \$23.93 |
| 1/4" | 3/8" | 5/8" | 2-1/2" | DWCT1108 | \$20.49 |
| 5/16" | 3/8" | 3/4" | 2-1/2" | DWCT1110 | \$22.68 |
| 3/8" | 3/8" | 3/4" | 2-1/2" | DWCT1112 | \$22.68 |
| 7/16" | 1/2" | 1" | 3" | DWCT1114 | \$31.57 |
| 1/2" | 1/2" | 1" | 3" | DWCT1118 | \$31.66 |
| 9/16" | 1/2" | 1" | 3" | DWCT1120 | \$45.70 |

DWCT Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 5/8" | 5/8" | 1-3/8" | 3-1/2" | DWCT1128 | \$46.72 |
| 3/4" | 3/4" | 1-5/8" | 3-7/8" | DWCT1132 | \$56.21 |
| 7/8" | 7/8" | 2" | 4-1/4" | DWCT1142 | \$73.66 |
| 1" | 1" | 2-1/4" | 4-3/4" | DWCT1152 | \$93.39 |
| 1-1/8" | 1" | 2-1/4" | 4-3/4" | DWCT1154 | \$128.64 |
| 1-1/4" | 1-1/4" | 2-1/2" | 5" | DWCT1162 | \$143.88 |
| 1-1/2" | 1-1/4" | 2-1/2" | 5" | DWCT1164 | \$189.40 |

2 FLUTE DOUBLE END BALL



DWCT Series

| Size | Shank Dia. | Flute Length | Part Number | List Price |
|-------|------------|--------------|-----------------|------------|
| 1/8" | 3/8" | 3/8" | DWC1/82FDEBALL | \$34.56 |
| 3/16" | 3/8" | 7/16" | DWC3/162FDEBALL | \$34.56 |
| 1/4" | 3/8" | 1/2" | DWC1/42FDEBALL | \$34.56 |
| 3/8" | 3/8" | 9/16" | DWC3/82FDEBALL | \$34.56 |
| 7/16" | 1/2" | 13/16" | DWC7/162FDEBALL | \$49.14 |

DWCT Series

| Size | Shank Dia. | Flute Length | Part Number | List Price |
|------|------------|--------------|----------------|------------|
| 1/2" | 1/2" | 13/16" | DWC1/22FDEBALL | \$48.94 |
| 5/8" | 5/8" | 1-1/8" | DWC5/82FDEBALL | \$75.22 |
| 3/4" | 3/4" | 1-5/16" | DWC3/42FDEBALL | \$87.69 |
| 7/8" | 7/8" | 1-9/16" | DWC7/82FDEBALL | \$119.16 |

4 FLUTE SINGLE END LONG



DWCT Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|---------|-------------|------------|
| 1/4" | 3/8" | 1-1/4" | 3-1/16" | DWCF708 | \$12.76 |
| 5/16" | 3/8" | 1-3/8" | 3-1/8" | DWCF710 | \$12.76 |
| 3/8" | 3/8" | 1-1/2" | 3-1/4" | DWCF712 | \$12.76 |
| 7/16" | 1/2" | 1-3/4" | 3-3/4" | DWCF714 | \$18.45 |
| 1/2" | 1/2" | 2" | 4" | DWCF718 | \$19.49 |
| 5/8" | 5/8" | 2-1/2" | 4-5/8" | DWCF728 | \$28.51 |
| 3/4" | 3/4" | 3" | 5-1/4" | DWCF732 | \$35.21 |
| 7/8" | 7/8" | 3-1/2" | 5-3/4" | DWCF742 | \$47.15 |

DWCT Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 1" | 1" | 4" | 6-1/2" | DWCF752 | \$60.48 |
| 1-1/8" | 1" | 4" | 6-1/2" | DWCF754 | \$95.42 |
| 1-1/4" | 1" | 4" | 6-1/2" | DWCF756 | \$108.93 |
| 1-1/4" | 1-1/4" | 4" | 6-1/2" | DWCF762 | \$108.93 |
| 1-1/2" | 1" | 4" | 6-1/2" | DWCF760 | \$140.04 |
| 1-1/2" | 1-1/4" | 4" | 6-1/2" | DWCF764 | \$144.83 |
| 1-3/4" | 1-1/4" | 4" | 6-1/2" | DWCF768 | \$204.01 |
| 2" | 1-1/4" | 4" | 6-1/2" | DWCF772 | \$249.03 |

HSS END MILLS

4 FLUTE SINGLE END EXTRA LONG



DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-------------|------------|
| 1/4" | 3/8" | 1-3/4" | 3-1/2" | DWCF908 | \$17.32 |
| 5/16" | 3/8" | 2" | 3-3/4" | DWCF910 | \$18.76 |
| 3/8" | 3/8" | 2-1/2" | 4-1/4" | DWCF912 | \$19.29 |
| 1/2" | 1/2" | 3" | 5" | DWCF918 | \$26.19 |
| 5/8" | 5/8" | 4" | 6-1/8" | DWCF928 | \$40.28 |

DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|---------|-------------|------------|
| 3/4" | 3/4" | 4" | 6-1/4" | DWCF932 | \$51.07 |
| 7/8" | 7/8" | 5" | 7-1/4" | DWCF942 | \$68.82 |
| 1" | 1" | 6" | 8-1/2" | DWCF952 | \$84.06 |
| 1-1/4" | 1-1/4" | 6" | 8-1/2" | DWCF962 | \$150.64 |
| 1-1/2" | 1-1/4" | 8" | 10-1/2" | DWCF964 | \$259.31 |

4 FLUTE SINGLE END BALL



DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|---------|-------------|------------|
| 3/16" | 3/8" | 1/2" | 2-3/8" | DWCF1106 | \$35.35 |
| 1/4" | 3/8" | 5/8" | 2-1/2" | DWCF1108 | \$35.35 |
| 5/16" | 3/8" | 3/4" | 2-1/2" | DWCF1110 | \$35.35 |
| 3/8" | 3/8" | 3/4" | 2-1/2" | DWCF1112 | \$35.35 |
| 7/16" | 1/2" | 1" | 3-1/16" | DWCF1114 | \$45.62 |
| 1/2" | 1/2" | 1-1/4" | 3-1/4" | DWCF1118 | \$45.62 |

DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 5/8" | 5/8" | 1-5/8" | 3-3/4" | DWCF1128 | \$62.31 |
| 3/4" | 3/4" | 1-5/8" | 3-7/8" | DWCF1132 | \$72.21 |
| 7/8" | 7/8" | 1-7/8" | 4-1/2" | DWCF1142 | \$110.72 |
| 1" | 1" | 2-1/4" | 4-3/4" | DWCF1152 | \$127.42 |
| 1-1/4" | 1-1/4" | 2-1/2" | 5" | DWCF1162 | \$154.43 |

4 FLUTE SINGLE END - CENTER CUTTING



DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|---------|-------------|------------|
| 1/8" | 3/8" | 3/8" | 2-5/16" | DWCF304-CC | \$17.65 |
| 3/16" | 3/8" | 1/2" | 2-3/8" | DWCF306-CC | \$17.65 |
| 1/4" | 3/8" | 5/8" | 2-1/2" | DWCF308-CC | \$17.65 |
| 5/16" | 3/8" | 3/4" | 2-1/2" | DWCF310-CC | \$17.65 |
| 3/8" | 3/8" | 3/4" | 2-1/2" | DWCF312-CC | \$17.65 |
| 1/2" | 1/2" | 1-1/4" | 3-1/4" | DWCF318-CC | \$29.18 |
| 9/16" | 1/2" | 1-3/8" | 3-3/8" | DWCF320-CC | \$35.62 |
| 5/8" | 5/8" | 1-5/8" | 3-3/4" | DWCF328-CC | \$32.36 |
| 3/4" | 5/8" | 1-5/8" | 3-3/4" | DWCF332-CC | \$38.76 |

DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 3/4" | 3/4" | 1-5/8" | 3-7/8" | DWCF341-CC | \$38.76 |
| 7/8" | 7/8" | 1-7/8" | 4-1/8" | DWCF342-CC | \$52.26 |
| 1" | 5/8" | 1-7/8" | 4" | DWCF340-CC | \$61.34 |
| 1" | 3/4" | 1-7/8" | 4-1/8" | DWCF345-CC | \$61.34 |
| 1" | 1" | 2" | 4-1/2" | DWCF352-CC | \$61.34 |
| 1-1/8" | 1" | 2" | 4-1/2" | DWCF354-CC | \$85.28 |
| 1-1/4" | 1-1/4" | 2" | 4-1/2" | DWCF362-CC | \$100.79 |

4 FLUTE SINGLE END LONG - CC



DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|---------|-------------|------------|
| 1/4" | 3/8" | 1-1/4" | 3-1/16" | DWCF308-LCC | \$21.78 |
| 5/16" | 3/8" | 1-1/4" | 3-1/8" | DWCF310-LCC | \$21.78 |
| 3/8" | 3/8" | 1-3/8" | 3-1/4" | DWCF312-LCC | \$21.78 |

DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|--------|-------------|------------|
| 1/2" | 1/2" | 2" | 4" | DWCF318-LCC | \$28.41 |
| 3/4" | 3/4" | 3" | 5-1/4" | DWCF341-LCC | \$48.31 |
| 7/8" | 7/8" | 3-1/2" | 5-3/4" | DWCF342-LCC | \$58.58 |

4 FLUTE SINGLE END EXTRA LONG - CC



DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|---------|--------------|------------|
| 1/4" | 3/8" | 1-3/4" | 3-9/16" | DWCF308-XLCC | \$24.67 |
| 5/16" | 3/8" | 2" | 3-3/4" | DWCF310-XLCC | \$25.94 |
| 3/8" | 3/8" | 2-1/2" | 4-1/4" | DWCF312-XLCC | \$25.94 |

DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|--------|--------------|------------|
| 1/2" | 1/2" | 3" | 5" | DWCF318-XLCC | \$35.05 |
| 5/8" | 5/8" | 4" | 6-1/8" | DWCF328-XLCC | \$51.52 |
| 3/4" | 3/4" | 4" | 6-1/4" | DWCF341-XLCC | \$56.89 |

COBALT END MILLS

2 FLUTE SINGLE END



DWCT Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|---------|-------------|------------|
| 1/8" | 3/8" | 3/8" | 2-5/16" | DWCTXL304 | \$22.62 |
| 3/16" | 3/8" | 7/16" | 2-5/16" | DWCTXL306 | \$22.62 |
| 1/4" | 3/8" | 1/2" | 2-5/16" | DWCTXL308 | \$22.62 |
| 5/16" | 3/8" | 9/16" | 2-5/16" | DWCTXL310 | \$22.62 |
| 3/8" | 3/8" | 9/16" | 2-3/8" | DWCTXL312 | \$22.62 |
| 7/16" | 3/8" | 13/16" | 2-1/2" | DWCTXL314 | \$34.53 |
| 1/2" | 3/8" | 13/16" | 2-1/2" | DWCTXL316 | \$34.53 |
| 1/2" | 1/2" | 1" | 3" | DWCTXL318 | \$32.09 |
| 9/16" | 1/2" | 1-1/8" | 3-1/8" | DWCTXL320 | \$42.95 |
| 5/8" | 5/8" | 1-5/16" | 3-7/16" | DWCTXL328 | \$49.30 |

DWCT Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|---------|-------------|------------|
| 3/4" | 3/4" | 1-5/16" | 3-7/16" | DWCTXL341 | \$62.43 |
| 7/8" | 3/4" | 1-1/2" | 3-3/4" | DWCTXL341B | \$90.79 |
| 1" | 1/2" | 1-1/2" | 3-1/2" | DWCTXL339 | \$104.87 |
| 1" | 5/8" | 1-1/2" | 3-5/8" | DWCTXL340 | \$104.87 |
| 1" | 3/4" | 1-1/2" | 3-3/4" | DWCTXL345 | \$104.87 |
| 1-1/4" | 3/4" | 1-5/8" | 3-7/8" | DWCTXL349 | \$167.81 |
| 1-1/4" | 1-1/4" | 1-5/8" | 4-1/8" | DWCTXL362 | \$167.81 |
| 1-1/2" | 3/4" | 1-5/8" | 3-7/8" | DWCTXL351A | \$225.79 |
| 1-1/2" | 1" | 1-5/8" | 4-1/8" | DWCTXL360 | \$225.79 |
| 1-3/4" | 3/4" | 1-5/8" | 3-7/8" | DWCTXL367 | \$380.14 |

4 FLUTE SINGLE END



DWCXL Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|----------|-------------|------------|
| 1/8" | 3/8" | 3/8" | 2-5/16" | DWCXL304 | \$22.62 |
| 3/16" | 3/8" | 1/2" | 2-3/8" | DWCXL306 | \$22.62 |
| 1/4" | 3/8" | 5/8" | 2-1/2" | DWCXL308 | \$22.62 |
| 5/16" | 3/8" | 3/4" | 2-1/2" | DWCXL310 | \$22.62 |
| 3/8" | 3/8" | 3/4" | 2-1/2" | DWCXL312 | \$22.62 |
| 7/16" | 3/8" | 1" | 2-11/16" | DWCXL314 | \$38.68 |
| 1/2" | 1/2" | 1-1/4" | 3-1/4" | DWCXL318 | \$32.09 |
| 5/8" | 5/8" | 1-5/8" | 3-3/4" | DWCXL328 | \$54.69 |
| 3/4" | 5/8" | 1-5/8" | 3-3/4" | DWCXL332 | \$73.32 |

DWCXL Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 3/4" | 3/4" | 1-5/8" | 3-3/4" | DWCXL341 | \$73.32 |
| 7/8" | 1/2" | 1-7/8" | 4" | DWCXL335 | \$95.66 |
| 7/8" | 3/4" | 1-7/8" | 4-1/8" | DWCXL341B | \$95.66 |
| 1" | 1/2" | 1-7/8" | 4" | DWCXL339 | \$106.96 |
| 1" | 3/4" | 1-7/8" | 4" | DWCXL345 | \$106.96 |
| 1" | 1" | 2" | 4-1/2" | DWCXL352 | \$106.96 |
| 1-1/4" | 3/4" | 2" | 4-1/4" | DWCXL349 | \$169.41 |
| 1-1/4" | 1-1/4" | 2" | 4-1/2" | DWCXL362 | \$169.41 |

4 FLUTE DOUBLE END



DWCXL Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|---------|-------------|------------|
| 1/8" | 3/8" | 3/8" | 3-1/16" | DWCXL204 | \$29.12 |
| 5/32" | 3/8" | 7/16" | 3-1/8" | DWCXL205 | \$29.12 |
| 3/16" | 3/8" | 1/2" | 3-1/4" | DWCXL206 | \$29.12 |
| 1/4" | 3/8" | 5/8" | 3-3/8" | DWCXL208 | \$29.12 |
| 5/16" | 3/8" | 3/8" | 3-1/2" | DWCXL210 | \$29.12 |
| 3/8" | 3/8" | 3/4" | 3-1/2" | DWCXL212 | \$29.12 |
| 7/16" | 1/2" | 1" | 4-1/8" | DWCXL214 | \$48.29 |

DWCXL Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-------------|------------|
| 1/2" | 1/2" | 1" | 4-1/8" | DWCXL218 | \$48.29 |
| 9/16" | 5/8" | 1-3/8" | 5" | DWCXL220 | \$73.37 |
| 5/8" | 5/8" | 1-3/8" | 5" | DWCXL228 | \$73.37 |
| 3/4" | 3/4" | 1-5/8" | 5-5/8" | DWCXL232 | \$93.61 |
| 7/8" | 7/8" | 1-7/8" | 6-1/8" | DWCXL242 | \$133.91 |
| 1" | 1" | 1-7/8" | 6-3/8" | DWCXL252 | \$152.99 |

COBALT ROUGHING



DWC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|---------|-------------|------------|
| 1/4" | 3/8" | 5/8" | 2-7/16" | DWC1/4 | \$45.48 |
| 5/16" | 3/8" | 3/4" | 2-1/2" | DWC5/16 | \$45.48 |
| 3/8" | 3/8" | 3/4" | 2-1/2" | DWC3/8 | \$45.48 |
| 7/16" | 1/2" | 7/8" | 3" | DWC7/16 | \$59.26 |
| 1/2" | 1/2" | 1-1/4" | 3-1/4" | DWC1/2 | \$59.26 |
| 9/16" | 1/2" | 1-3/8" | 3-3/8" | DWC9/16 | \$73.70 |
| 5/8" | 5/8" | 1-5/8" | 3-3/4" | DWC5/8 | \$73.70 |
| 3/4" | 5/8" | 1-5/8" | 3-3/4" | DWC3/4 | \$89.74 |

DWC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 7/8" | 3/4" | 1-7/8" | 4-1/8" | DWC7/8 | \$130.39 |
| 1" | 3/4" | 2" | 4-1/2" | DWC1INCH | \$138.50 |
| 1" | 1" | 2" | 4-1/2" | DWC1X1 | \$138.50 |
| 1-1/8" | 1" | 2" | 4-1/2" | DWC1-1/8 | \$198.47 |
| 1-1/4" | 1-1/4" | 2" | 4-1/2" | DWC1-1/4 | \$266.48 |
| 1-1/2" | 1-1/4" | 2" | 4-1/2" | DWC1-1/2 | \$387.81 |
| 1-3/4" | 1-1/4" | 2" | 4-1/2" | DWC1-3/4 | \$512.28 |
| 2" | 1-1/4" | 2" | 4-1/2" | DWC2INCH | \$599.76 |

BRC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|---------|-------------|------------|
| 1/4" | 3/8" | 5/8" | 2-7/16" | BRC1/4 | \$47.37 |
| 5/16" | 3/8" | 3/4" | 2-1/2" | BRC5/16 | \$47.37 |
| 3/8" | 3/8" | 3/4" | 2-1/2" | BRC3/8 | \$47.37 |
| 1/2" | 1/2" | 1-1/4" | 3-1/4" | BRC1/2 | \$61.20 |

BRC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|--------|-------------|------------|
| 5/8" | 5/8" | 1-5/8" | 3-3/4" | BRC5/8 | \$76.37 |
| 3/4" | 5/8" | 1-5/8" | 3-3/4" | BRC3/4 | \$90.83 |
| 1" | 3/4" | 1-5/8" | 3-3/4" | BRC1INCH | \$136.22 |

HSS END MILLS METRIC SIZES

2 FLUTE SINGLE END



DWC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|---------|--------------|------------|
| 4MM | 3/8" | 7/16" | 2-5/16" | DWC4MM-2FSE | \$28.46 |
| 5MM | 3/8" | 1/2" | 2-5/16" | DWC5MM-2FSE | \$28.46 |
| 6MM | 3/8" | 1/2" | 2-5/16" | DWC6MM-2FSE | \$28.46 |
| 8MM | 3/8" | 9/16" | 2-5/16" | DWC8MM-2FSE | \$28.46 |
| 10MM | 3/8" | 13/16" | 2-1/2" | DWC10MM-2FSE | \$28.46 |
| 11MM | 3/8" | 13/16" | 2-1/2" | DWC11MM-2FSE | \$32.88 |
| 12MM | 3/8" | 13/16" | 2-1/2" | DWC12MM-2FSE | \$32.88 |

DWC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|---------|--------------|------------|
| 14MM | 1/2" | 1-1/8" | 3-1/8" | DWC14MM-2FSE | \$45.85 |
| 16MM | 5/8" | 1-5/16" | 3-7/16" | DWC16MM-2FSE | \$52.17 |
| 18MM | 5/8" | 1-5/16" | 3-7/16" | DWC18MM-2FSE | \$56.92 |
| 20MM | 3/4" | 1-1/2" | 3-3/4" | DWC20MM-2FSE | \$70.48 |
| 24MM | 1" | 2" | 4-1/2" | DWC24MM-2FSE | \$80.33 |
| 26MM | 1" | 2" | 4-1/2" | DWC26MM-2FSE | \$98.39 |

4 FLUTE SINGLE END



DWC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|----------|--------------|------------|
| 4MM | 3/8" | 1/2" | 2-5/16" | DWC4MM-4FSE | \$28.46 |
| 5MM | 3/8" | 9/16" | 2-1/2" | DWC5MM-4FSE | \$28.46 |
| 6MM | 3/8" | 5/8" | 2-1/2" | DWC6MM-4FSE | \$28.46 |
| 8MM | 3/8" | 3/4" | 2-1/2" | DWC8MM-4FSE | \$28.46 |
| 10MM | 3/8" | 1" | 2-11/16" | DWC10MM-4FSE | \$28.46 |
| 11MM | 3/8" | 1" | 2-11/16" | DWC11MM-4FSE | \$32.88 |
| 12MM | 3/8" | 1" | 2-11/16" | DWC12MM-4FSE | \$32.88 |

DWC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|--------|--------------|------------|
| 14MM | 1/2" | 1-3/8" | 3-3/8" | DWC14MM-4FSE | \$45.85 |
| 16MM | 5/8" | 1-5/8" | 3-3/4" | DWC16MM-4FSE | \$52.17 |
| 18MM | 5/8" | 1-5/8" | 3-3/4" | DWC18MM-4FSE | \$56.92 |
| 20MM | 3/4" | 1-7/8" | 4-1/8" | DWC20MM-4FSE | \$70.48 |
| 24MM | 1" | 2" | 4-1/2" | DWC24MM-4FSE | \$80.33 |
| 26MM | 1" | 2" | 4-1/2" | DWC26MM-4FSE | \$98.39 |

2 FLUTE DOUBLE END



DWC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|--------|-------------|------------|
| 4MM | 3/8" | 7/16" | 3-1/8" | DWC4MM-2FDE | \$41.26 |
| 5MM | 3/8" | 7/16" | 3-1/8" | DWC5MM-2FDE | \$41.26 |
| 6MM | 3/8" | 1/2" | 3-3/8" | DWC6MM-2FDE | \$41.26 |
| 7MM | 3/8" | 9/16" | 3-1/2" | DWC7MM-2FDE | \$41.26 |
| 8MM | 3/8" | 9/16" | 3-1/2" | DWC8MM-2FDE | \$41.26 |

DWC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|--------|--------------|------------|
| 10MM | 1/2" | 3/4" | 3-3/4" | DWC10MM-2FDE | \$41.26 |
| 12MM | 1/2" | 1" | 3-3/4" | DWC12MM-2FDE | \$47.66 |
| 14MM | 5/8" | 1-3/8" | 5-1/2" | DWC14MM-2FDE | \$75.65 |
| 16MM | 5/8" | 1-3/8" | 5-1/2" | DWC16MM-2FDE | \$80.54 |

4 FLUTE DOUBLE END



DWC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|--------|-------------|------------|
| 4MM | 3/8" | 7/16" | 3-1/8" | DWC4MM-4FDE | \$41.26 |
| 5MM | 3/8" | 7/16" | 3-1/8" | DWC5MM-4FDE | \$41.26 |
| 6MM | 3/8" | 1/2" | 3-3/8" | DWC6MM-4FDE | \$41.26 |
| 7MM | 3/8" | 9/16" | 3-1/2" | DWC7MM-4FDE | \$41.26 |

DWC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|--------|--------------|------------|
| 8MM | 3/8" | 9/16" | 3-1/2" | DWC8MM-4FDE | \$41.26 |
| 10MM | 1/2" | 13/16" | 3-3/4" | DWC10MM-4FDE | \$41.26 |
| 12MM | 1/2" | 13/16" | 3-3/4" | DWC12MM-4FDE | \$47.66 |
| 14MM | 1/2" | 13/16" | 3-3/4" | DWC14MM-4FDE | \$47.66 |

HSS END MILLS 3/16" SHANK MINIATURES

2 FLUTE DOUBLE END



DWCT Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-------------|------------|
| 1/32" | 3/16" | 3/32" | 2-1/4" | DWCT11 | \$21.77 |
| 3/64" | 3/16" | 9/64" | 2-1/4" | DWCT111 | \$21.77 |
| 1/16" | 3/16" | 3/16" | 2-1/4" | DWCT12 | \$21.77 |
| 5/64" | 3/16" | 15/64" | 2-1/4" | DWCT12A | \$21.77 |
| 3/32" | 3/16" | 9/32" | 2-1/4" | DWCT13 | \$21.77 |
| 7/64" | 3/16" | 21/64" | 2-1/4" | DWCT13A | \$21.77 |

DWCT Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 1/8" | 3/16" | 3/8" | 2-1/4" | DWCT14 | \$21.77 |
| 9/64" | 3/16" | 13/32" | 2-1/4" | DWCT14A | \$21.77 |
| 5/32" | 3/16" | 7/16" | 2-1/4" | DWCT15 | \$21.77 |
| 11/64" | 3/16" | 1/2" | 2-1/4" | DWCT15A | \$21.77 |
| 3/16" | 3/16" | 1/2" | 2-1/4" | DWCT16 | \$21.77 |

2 FLUTE DOUBLE END LONG



DWCT Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-------------|------------|
| 1/16" | 3/16" | 7/32" | 2-1/2" | DWCT102 | \$23.75 |
| 5/64" | 3/16" | 7/32" | 2-1/2" | DWCT102A | \$23.75 |
| 3/32" | 3/16" | 9/32" | 2-5/8" | DWCT103 | \$23.75 |
| 7/64" | 3/16" | 9/32" | 2-5/8" | DWCT103A | \$23.75 |
| 1/8" | 3/16" | 3/4" | 3-1/8" | DWCT104 | \$23.75 |

DWCT Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 9/64" | 3/16" | 3/4" | 3-1/8" | DWCT104A | \$23.75 |
| 5/32" | 3/16" | 7/8" | 3-1/4" | DWCT105 | \$23.75 |
| 11/64" | 3/16" | 7/8" | 3-1/4" | DWCT105A | \$23.75 |
| 3/16" | 3/16" | 1" | 3-3/8" | DWCT106 | \$23.75 |

4 FLUTE DOUBLE END



DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-------------|------------|
| 1/16" | 3/16" | 3/16" | 2-1/4" | DWCF12 | \$21.77 |
| 5/64" | 3/16" | 15/64" | 2-1/4" | DWCF12A | \$21.77 |
| 3/32" | 3/16" | 9/32" | 2-1/4" | DWCF13 | \$21.77 |
| 7/64" | 3/16" | 21/64" | 2-1/4" | DWCF13A | \$21.77 |
| 1/8" | 3/16" | 3/8" | 2-1/4" | DWCF14 | \$21.77 |

DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 9/64" | 3/16" | 13/32" | 2-1/4" | DWCF14A | \$21.77 |
| 5/32" | 3/16" | 7/16" | 2-1/4" | DWCF15 | \$21.77 |
| 11/64" | 3/16" | 1/2" | 2-1/4" | DWCF15A | \$21.77 |
| 3/16" | 3/16" | 1/2" | 2-1/4" | DWCF16 | \$21.77 |

4 FLUTE DOUBLE END LONG



DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-------------|------------|
| 1/16" | 3/16" | 7/32" | 2-1/2" | DWCF102 | \$23.75 |
| 3/32" | 3/16" | 9/32" | 2-5/8" | DWCF103 | \$23.75 |
| 7/64" | 3/16" | 9/32" | 2-5/8" | DWCF103A | \$23.75 |
| 1/8" | 3/16" | 3/4" | 3-1/8" | DWCF104 | \$23.75 |

DWCF Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|-------------|------------|
| 9/64" | 3/16" | 3/4" | 3-1/8" | DWCF104A | \$23.75 |
| 5/32" | 3/16" | 7/8" | 3-1/4" | DWCF105 | \$23.75 |
| 11/64" | 3/16" | 7/8" | 3-1/4" | DWCF105A | \$23.75 |
| 3/16" | 3/16" | 1" | 3-3/8" | DWCF106 | \$23.75 |

SOLID CARBIDE END MILLS

2 FLUTE SINGLE END



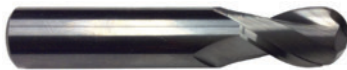
MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|---------------|------------|
| 1/32" | 1/8" | 1/8" | 1-1/2" | MMO1/32-2FSE | \$20.99 |
| 3/64" | 1/8" | 1/8" | 1-1/2" | MMO3/64-2FSE | \$25.87 |
| 1/16" | 1/8" | 3/16" | 1-1/2" | MMO1/16-2FSE | \$18.96 |
| 5/64" | 1/8" | 3/8" | 1-1/2" | MMO5/64-2FSE | \$18.96 |
| 3/32" | 1/8" | 3/8" | 1-1/2" | MMO3/32-2FSE | \$18.45 |
| 7/64" | 1/8" | 3/8" | 1-1/2" | MMO7/64-2FSE | \$18.96 |
| 1/8" | 1/8" | 1/2" | 1-1/2" | MMO1/8-2FSE | \$16.94 |
| 9/64" | 3/16" | 1/2" | 2" | MMO9/64-2FSE | \$27.13 |
| 5/32" | 3/16" | 1/2" | 2" | MMO5/32-2FSE | \$24.27 |
| 11/64" | 3/16" | 5/8" | 2" | MMO11/64-2FSE | \$26.82 |
| 3/16" | 3/16" | 5/8" | 2" | MMO3/16-2FSE | \$23.09 |
| 13/64" | 1/4" | 5/8" | 2-1/2" | MMO13/64-2FSE | \$35.01 |

MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|---------------|------------|
| 7/32" | 1/4" | 5/8" | 2-1/2" | MMO7/32-2FSE | \$32.14 |
| 15/64" | 1/4" | 3/4" | 2-1/2" | MMO15/64-2FSE | \$35.65 |
| 1/4" | 1/4" | 3/4" | 2-1/2" | MMO1/4-2FSE | \$29.00 |
| 5/16" | 5/16" | 13/16" | 2-1/2" | MMO5/16-2FSE | \$39.68 |
| 3/8" | 3/8" | 1" | 2-1/2" | MMO3/8-2FSE | \$51.09 |
| 7/16" | 7/16" | 1" | 2-3/4" | MMO7/16-2FSE | \$66.99 |
| 1/2" | 1/2" | 1" | 3" | MMO1/2-2FSE | \$84.10 |
| 9/16" | 9/16" | 1-1/8" | 3-1/2" | MMO9/16-2FSE | \$150.76 |
| 5/8" | 5/8" | 1-1/4" | 3-1/2" | MMO5/8-2FSE | \$161.13 |
| 3/4" | 3/4" | 1-1/2" | 4" | MMO3/4-2FSE | \$237.65 |
| 1" | 1" | 1-1/2" | 4" | MMO1-2FSE | \$373.90 |

2 FLUTE SINGLE END BALL



MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-----------------|------------|
| 1/32" | 1/8" | 1/8" | 1-1/2" | MMO1/32-2FSE-BN | \$31.79 |
| 3/64" | 1/8" | 1/8" | 1-1/2" | MMO3/64-2FSE-BN | \$31.79 |
| 1/16" | 1/8" | 3/16" | 1-1/2" | MMO1/16-2FSE-BN | \$23.87 |
| 5/64" | 1/8" | 3/16" | 1-1/2" | MMO5/64-2FSE-BN | \$24.35 |
| 3/32" | 1/8" | 3/8" | 1-1/2" | MMO3/32-2FSE-BN | \$23.87 |
| 7/64" | 1/8" | 3/8" | 1-1/2" | MMO7/64-2FSE-BN | \$24.35 |
| 1/8" | 1/8" | 1/2" | 1-1/2" | MMO1/8-2FSE-BN | \$21.59 |
| 3/16" | 3/16" | 5/8" | 2" | MMO3/16-2FSE-BN | \$28.48 |

MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-----------------|------------|
| 1/4" | 1/4" | 3/4" | 2-1/2" | MMO1/4-2FSE-BN | \$36.17 |
| 5/16" | 5/16" | 13/16" | 2-1/2" | MMO5/16-2FSE-BN | \$47.49 |
| 3/8" | 3/8" | 1" | 2-1/2" | MMO3/8-2FSE-BN | \$58.04 |
| 1/2" | 1/2" | 1" | 3" | MMO1/2-2FSE-BN | \$107.30 |
| 5/8" | 5/8" | 1-1/4" | 3-1/2" | MMO5/8-2FSE-BN | \$179.85 |
| 3/4" | 3/4" | 1-1/2" | 4" | MMO3/4-2FSE-BN | \$264.87 |
| 1" | 1" | 1-1/2" | 4" | MMO1-2FSE-BN | \$483.35 |

2 FLUTE DOUBLE END STUB



MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-----------------|------------|
| 1/32" | 1/8" | 1/16" | 1-1/2" | MMO1/32-2FDE-ST | \$30.29 |
| 3/64" | 1/8" | 3/32" | 1-1/2" | MMO3/64-2FDE-ST | \$30.29 |
| 1/16" | 1/8" | 1/8" | 1-1/2" | MMO1/16-2FDE-ST | \$27.61 |
| 5/64" | 1/8" | 1/8" | 1-1/2" | MMO5/64-2FDE-ST | \$27.61 |
| 3/32" | 1/8" | 3/16" | 1-1/2" | MMO3/32-2FDE-ST | \$27.61 |
| 7/64" | 1/8" | 3/16" | 1-1/2" | MMO7/64-2FDE-ST | \$27.61 |

MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-----------------|------------|
| 1/8" | 1/8" | 1/4" | 1-1/2" | MMO1/8-2FDE-ST | \$23.19 |
| 3/16" | 3/16" | 3/8" | 2" | MMO3/16-2FDE-ST | \$35.80 |
| 1/4" | 1/4" | 1/2" | 2-1/2" | MMO1/4-2FDE-ST | \$46.74 |
| 5/16" | 5/16" | 1/2" | 2-1/2" | MMO5/16-2FDE-ST | \$58.33 |
| 3/8" | 3/8" | 9/16" | 2-1/2" | MMO3/8-2FDE-ST | \$59.26 |
| 1/2" | 1/2" | 5/8" | 3" | MMO1/2-2FDE-ST | \$93.95 |

2 FLUTE DOUBLE END STUB BALL



MMO Series

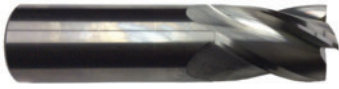
| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|--------------------|------------|
| 1/32" | 1/8" | 1/16" | 1-1/2" | MMO1/32-2FDE-ST-BN | \$38.52 |
| 3/64" | 1/8" | 3/32" | 1-1/2" | MMO3/64-2FDE-ST-BN | \$38.52 |
| 1/16" | 1/8" | 1/8" | 1-1/2" | MMO1/16-2FDE-ST-BN | \$35.47 |
| 5/64" | 1/8" | 1/8" | 1-1/2" | MMO5/64-2FDE-ST-BN | \$38.52 |
| 3/32" | 1/8" | 3/16" | 1-1/2" | MMO3/32-2FDE-ST-BN | \$35.47 |
| 7/64" | 1/8" | 3/16" | 1-1/2" | MMO7/64-2FDE-ST-BN | \$38.52 |

MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|--------------------|------------|
| 1/8" | 1/8" | 1/4" | 1-1/2" | MMO1/8-2FDE-ST-BN | \$35.47 |
| 3/16" | 3/16" | 3/8" | 2" | MMO3/16-2FDE-ST-BN | \$47.80 |
| 1/4" | 1/4" | 1/2" | 2-1/2" | MMO1/4-2FDE-ST-BN | \$59.91 |
| 5/16" | 5/16" | 1/2" | 2-1/2" | MMO5/16-2FDE-ST-BN | \$78.82 |
| 3/8" | 3/8" | 9/16" | 2-1/2" | MMO3/8-2FDE-ST-BN | \$83.92 |
| 1/2" | 1/2" | 5/8" | 3" | MMO1/2-2FDE-ST-BN | \$139.04 |

SOLID CARBIDE END MILLS

4 FLUTE SINGLE END



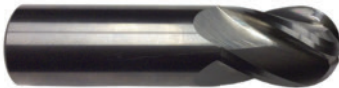
MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|---------------|------------|
| 1/32" | 1/8" | 1/8" | 1-1/2" | MMO1/32-4FSE | \$20.99 |
| 3/64" | 1/8" | 1/8" | 1-1/2" | MMO3/64-4FSE | \$25.87 |
| 1/16" | 1/8" | 3/16" | 1-1/2" | MMO1/16-4FSE | \$18.96 |
| 5/64" | 1/8" | 3/8" | 1-1/2" | MMO5/64-4FSE | \$18.96 |
| 3/32" | 1/8" | 3/8" | 1-1/2" | MMO3/32-4FSE | \$18.45 |
| 7/64" | 1/8" | 3/8" | 1-1/2" | MMO7/64-4FSE | \$18.96 |
| 1/8" | 1/8" | 1/2" | 1-1/2" | MMO1/8-4FSE | \$16.94 |
| 9/64" | 3/16" | 1/2" | 2" | MMO9/64-4FSE | \$27.13 |
| 5/32" | 3/16" | 1/2" | 2" | MMO5/32-4FSE | \$24.27 |
| 11/64" | 3/16" | 5/8" | 2" | MMO11/64-4FSE | \$26.82 |
| 3/16" | 3/16" | 5/8" | 2" | MMO3/16-4FSE | \$23.09 |
| 13/64" | 1/4" | 5/8" | 2-1/2" | MMO13/64-4FSE | \$35.01 |

MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|--------|------------|--------------|--------|---------------|------------|
| 7/32" | 1/4" | 5/8" | 2-1/2" | MMO7/32-4FSE | \$32.14 |
| 15/64" | 1/4" | 3/4" | 2-1/2" | MMO15/64-4FSE | \$35.65 |
| 1/4" | 1/4" | 3/4" | 2-1/2" | MMO1/4-4FSE | \$29.00 |
| 5/16" | 5/16" | 13/16" | 2-1/2" | MMO5/16-4FSE | \$39.68 |
| 3/8" | 3/8" | 1" | 2-1/2" | MMO3/8-4FSE | \$51.09 |
| 7/16" | 7/16" | 1" | 2-3/4" | MMO7/16-4FSE | \$66.99 |
| 1/2" | 1/2" | 1" | 3" | MMO1/2-4FSE | \$84.10 |
| 9/16" | 9/16" | 1-1/8" | 3-1/2" | MMO9/16-4FSE | \$150.76 |
| 5/8" | 5/8" | 1-1/4" | 3-1/2" | MMO5/8-4FSE | \$161.13 |
| 3/4" | 3/4" | 1-1/2" | 4" | MMO3/4-4FSE | \$237.65 |
| 1" | 1" | 1-1/2" | 4" | MMO1-4FSE | \$373.90 |

4 FLUTE SINGLE END BALL



MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-----------------|------------|
| 1/32" | 1/8" | 1/8" | 1-1/2" | MMO1/32-4FSE-BN | \$31.79 |
| 3/64" | 1/8" | 1/8" | 1-1/2" | MMO3/64-4FSE-BN | \$31.79 |
| 1/16" | 1/8" | 3/16" | 1-1/2" | MMO1/16-4FSE-BN | \$23.87 |
| 5/64" | 1/8" | 3/16" | 1-1/2" | MMO5/64-4FSE-BN | \$24.35 |
| 3/32" | 1/8" | 3/8" | 1-1/2" | MMO3/32-4FSE-BN | \$23.87 |
| 1/8" | 1/8" | 3/8" | 1-1/2" | MMO1/8-4FSE-BN | \$21.59 |
| 3/16" | 3/16" | 5/8" | 2" | MMO3/16-4FSE-BN | \$28.48 |

MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-----------------|------------|
| 1/4" | 1/4" | 3/4" | 2-1/2" | MMO1/4-4FSE-BN | \$36.17 |
| 5/16" | 5/16" | 1/2" | 2-1/2" | MMO5/16-4FSE-BN | \$47.49 |
| 3/8" | 3/8" | 1" | 2-1/2" | MMO3/8-4FSE-BN | \$58.04 |
| 1/2" | 1/2" | 1" | 3" | MMO1/2-4FSE-BN | \$107.30 |
| 5/8" | 5/8" | 1-1/4" | 3-1/2" | MMO5/8-4FSE-BN | \$179.85 |
| 3/4" | 3/4" | 1-1/2" | 4" | MMO3/4-4FSE-BN | \$264.87 |
| 1" | 1" | 1-1/2" | 4" | MMO1-4FSE-BN | \$483.35 |

4 FLUTE SINGLE END LONG



MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-------------------|------------|
| 1/8" | 1/8" | 3/4" | 2-1/4" | MMO1/8-4FSE-LONG | \$29.02 |
| 3/16" | 3/16" | 3/4" | 2-1/4" | MMO3/16-4FSE-LONG | \$35.21 |
| 1/4" | 1/4" | 1-1/8" | 3" | MMO1/4-4FSE-LONG | \$48.46 |
| 3/8" | 3/8" | 1-1/8" | 3" | MMO3/8-4FSE-LONG | \$72.26 |

MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|--------|------------------|------------|
| 1/2" | 1/2" | 2" | 4" | MMO1/2-4FSE-LONG | \$127.92 |
| 5/8" | 5/8" | 2-1/4" | 5" | MMO5/8-4FSE-LONG | \$249.03 |
| 3/4" | 3/4" | 2-1/4" | 5" | MMO3/4-4FSE-LONG | \$322.05 |
| 1" | 1" | 2-1/4" | 5" | MMO1-4FSE-LONG | \$586.73 |

4 FLUTE SINGLE END EXTRA LONG



MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|--------------------|------------|
| 1/8" | 1/8" | 1" | 3" | MMO1/8-4FSE-XLONG | \$37.66 |
| 3/16" | 3/16" | 1-1/8" | 3" | MMO3/16-4FSE-XLONG | \$39.36 |
| 1/4" | 1/4" | 1-1/2" | 4" | MMO1/4-4FSE-XLONG | \$52.86 |
| 3/8" | 3/8" | 1-3/4" | 4" | MMO3/8-4FSE-XLONG | \$80.83 |

MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|------|------------|--------------|--------|-------------------|------------|
| 1/2" | 1/2" | 3" | 6" | MMO1/2-4FSE-XLONG | \$182.33 |
| 5/8" | 5/8" | 3" | 6" | MMO5/8-4FSE-XLONG | \$259.92 |
| 3/4" | 3/4" | 3" | 6" | MMO3/4-4FSE-XLONG | \$375.12 |
| 1" | 1" | 3" | 6" | MMO1-4FSE-XLONG | \$670.70 |

SOLID CARBIDE END MILLS

4 FLUTE DOUBLE END STUB



MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-----------------|------------|
| 1/32" | 1/8" | 1/16" | 1-1/2" | MMO1/32-4FDE-ST | \$30.29 |
| 3/64" | 1/8" | 3/32" | 1-1/2" | MMO3/64-4FDE-ST | \$30.29 |
| 1/16" | 1/8" | 1/8" | 1-1/2" | MMO1/16-4FDE-ST | \$27.61 |
| 5/64" | 1/8" | 1/8" | 1-1/2" | MMO5/64-4FDE-ST | \$27.61 |
| 3/32" | 1/8" | 3/16" | 1-1/2" | MMO3/32-4FDE-ST | \$27.61 |
| 7/64" | 1/8" | 3/16" | 1-1/2" | MMO7/64-4FDE-ST | \$27.61 |

MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-----------------|------------|
| 1/8" | 1/8" | 1/4" | 1-1/2" | MMO1/8-4FDE-ST | \$23.27 |
| 3/16" | 3/16" | 3/8" | 2" | MMO3/16-4FDE-ST | \$35.80 |
| 1/4" | 1/4" | 1/2" | 2-1/2" | MMO1/4-4FDE-ST | \$46.74 |
| 5/16" | 5/16" | 1/2" | 2-1/2" | MMO5/16-4FDE-ST | \$58.33 |
| 3/8" | 3/8" | 9/16" | 2-1/2" | MMO3/8-4FDE-ST | \$59.26 |
| 1/2" | 1/2" | 5/8" | 3" | MMO1/2-4FDE-ST | \$93.95 |

4 FLUTE DOUBLE END STUB BALL



MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|--------------------|------------|
| 1/32" | 1/8" | 1/16" | 1-1/2" | MMO1/32-4FDE-ST-BN | \$38.52 |
| 3/64" | 1/8" | 3/32" | 1-1/2" | MMO3/64-4FDE-ST-BN | \$38.52 |
| 1/16" | 1/8" | 1/8" | 1-1/2" | MMO1/16-4FDE-ST-BN | \$35.47 |
| 5/64" | 1/8" | 1/8" | 1-1/2" | MMO5/64-4FDE-ST-BN | \$38.52 |
| 3/32" | 1/8" | 3/16" | 1-1/2" | MMO3/32-4FDE-ST-BN | \$35.47 |
| 7/64" | 1/8" | 3/16" | 1-1/2" | MMO7/64-4FDE-ST-BN | \$38.52 |

MMO Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|--------------------|------------|
| 1/8" | 1/8" | 1/4" | 1-1/2" | MMO1/8-4FDE-ST-BN | \$35.47 |
| 3/16" | 3/16" | 3/8" | 2" | MMO3/16-4FDE-ST-BN | \$47.80 |
| 1/4" | 1/4" | 1/2" | 2-1/2" | MMO1/4-4FDE-ST-BN | \$59.91 |
| 5/16" | 5/16" | 1/2" | 2-1/2" | MMO5/16-4FDE-ST-BN | \$78.82 |
| 3/8" | 3/8" | 9/16" | 2-1/2" | MMO3/8-4FDE-ST-BN | \$83.92 |
| 1/2" | 1/2" | 9/16" | 3" | MMO1/2-4FDE-ST-BN | \$139.04 |



HSS SHELL END MILLS

DWCA Series

| Size | Flute Length | Slot Width | Slot Depth | Hole Size | Part Number | List Price |
|--------|--------------|------------|------------|-----------|-------------|------------|
| 1-1/4" | 1" | 1/4" | 5/32" | 1/2" | DWCA1610 | \$123.09 |
| 1-1/2" | 1-1/8" | 1/4" | 5/32" | 1/2" | DWCA1612 | \$125.31 |
| 1-3/4" | 1-1/4" | 5/16" | 3/16" | 3/4" | DWCA1614 | \$158.25 |
| 2" | 1-3/8" | 5/16" | 3/16" | 3/4" | DWCA1616 | \$184.45 |
| 2-1/4" | 1-1/2" | 3/8" | 7/32" | 1" | DWCA1618 | \$207.67 |
| 2-1/2" | 1-5/8" | 3/8" | 7/32" | 1" | DWCA1620 | \$249.94 |
| 2-3/4" | 1-5/8" | 3/8" | 7/32" | 1" | DWCA1622 | \$308.55 |

DWCA Series

| Size | Flute Length | Slot Width | Slot Depth | Hole Size | Part Number | List Price |
|--------|--------------|------------|------------|-----------|-------------|------------|
| 3" | 1-3/4" | 1/2" | 9/32" | 1-1/4" | DWCA1624 | \$349.21 |
| 3-1/2" | 1-7/8" | 1/2" | 9/32" | 1-1/4" | DWCA1626 | \$469.65 |
| 4" | 2-1/4" | 5/8" | 3/8" | 1-1/2" | DWCA1628 | \$577.42 |
| 4-1/2" | 2-1/4" | 5/8" | 3/8" | 1-1/2" | DWCA1630 | \$670.48 |
| 5" | 2-1/4" | 5/8" | 3/8" | 1-1/2" | DWCA1632 | \$867.67 |
| 5-1/2" | 2-1/4" | 3/4" | 7/16" | 2" | DWCA1634 | \$1,158.23 |
| 6" | 2-1/4" | 3/4" | 7/16" | 2" | DWCA1636 | \$1,268.69 |

HSS CORNER ROUNDING END MILLS



DWCC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-------------|------------|
| 1/16" | 7/16" | 3/8" | 2-1/2" | DWCC402 | \$58.32 |
| 3/32" | 1/2" | 3/8" | 2-1/2" | DWCC403 | \$64.04 |
| 1/8" | 5/8" | 1/2" | 3" | DWCC404 | \$71.02 |
| 5/32" | 3/4" | 1/2" | 3" | DWCC405 | \$78.36 |
| 3/16" | 7/8" | 3/4" | 3-1/8" | DWCC406 | \$89.96 |
| 1/4" | 1" | 3/4" | 3-1/8" | DWCC408 | \$79.07 |
| 5/16" | 1-1/8" | 3/4" | 3-1/4" | DWCC409 | \$109.85 |
| 5/16" | 1-1/8" | 7/8" | 3-1/2" | DWCC410 | \$109.85 |

DWCC Series

| Size | Shank Dia. | Flute Length | O.A.L. | Part Number | List Price |
|-------|------------|--------------|--------|-------------|------------|
| 3/8" | 1-1/4" | 3/4" | 3-1/2" | DWCC411 | \$109.85 |
| 3/8" | 1-1/4" | 7/8" | 3-3/4" | DWCC412 | \$109.85 |
| 7/16" | 1-3/8" | 3/4" | 3-3/4" | DWCC413 | \$148.68 |
| 7/16" | 1-3/8" | 1" | 4" | DWCC414 | \$148.68 |
| 1/2" | 1-1/2" | 3/4" | 3-7/8" | DWCC416 | \$166.90 |
| 5/8" | 1-5/8" | 3/4" | 4" | DWCC420 | \$323.12 |
| 5/8" | 1-5/8" | 1" | 4-1/4" | DWCC422 | \$323.12 |
| 3/4" | 1-7/8" | 3/4" | 4-1/8" | DWCC424 | \$378.10 |

DOUBLE CUT CARBIDE BURS

CYLINDRICAL

| DUL Series | | | |
|------------------|---------------|-------------|------------|
| Cutting Diameter | Length Of Cut | Part Number | List Price |
| 1/8" | 1/2" | DULSA11 | \$15.69 |
| 1/8" | 5/8" | DULSA12 | \$14.13 |
| 5/32" | 5/8" | DULSA13 | \$18.70 |
| 3/16" | 5/8" | DULSA14 | \$15.60 |
| 1/4" | 5/8" | DULSA1 | \$12.75 |
| 1/4" | 1" | DULSA1A | \$16.08 |
| 5/16" | 3/4" | DULSA2 | \$16.65 |
| 5/16" | 1" | DULSA2A | \$26.02 |
| 3/8" | 3/4" | DULSA3 | \$17.58 |
| 3/8" | 1" | DULSA3A | \$23.02 |
| 3/8" | 1-1/2" | DULSA3B | \$29.49 |
| 7/16" | 1" | DULSA4 | \$28.17 |
| 1/2" | 1" | DULSA5 | \$28.58 |
| 5/8" | 1" | DULSA6 | \$38.09 |
| 3/4" | 1" | DULSA7 | \$65.75 |
| 3/4" | 3/4" | DULSA16 | \$54.16 |
| 1" | 1" | DULSA9 | \$81.62 |

DOUBLE CUT



CYLINDRICAL (END CUT)

| DUL Series | | | |
|------------------|---------------|-------------|------------|
| Cutting Diameter | Length Of Cut | Part Number | List Price |
| 1/8" | 1/2" | DULSB11 | \$17.12 |
| 1/8" | 5/8" | DULSB12 | \$17.07 |
| 3/16" | 5/8" | DULSB14 | \$17.82 |
| 1/4" | 5/8" | DULSB1 | \$17.82 |
| 1/4" | 1" | DULSB1A | \$22.22 |
| 5/16" | 3/4" | DULSB2 | \$21.52 |
| 5/16" | 1" | DULSB2A | \$36.60 |
| 3/8" | 3/4" | DULSB3 | \$22.99 |
| 3/8" | 1" | DULSB3A | \$31.76 |
| 3/8" | 1-1/2" | DULSB3B | \$39.60 |
| 7/16" | 1" | DULSB4 | \$34.69 |
| 1/2" | 1" | DULSB5 | \$37.30 |
| 5/8" | 1" | DULSB6 | \$48.61 |
| 3/4" | 1" | DULSB7 | \$71.22 |
| 3/4" | 3/4" | DULSB16 | \$63.36 |
| 1" | 1" | DULSB9 | \$95.64 |



CYLINDRICAL (RADIUS END)

| DUL Series | | | |
|------------------|---------------|-------------|------------|
| Cutting Diameter | Length Of Cut | Part Number | List Price |
| 1/8" | 1/2" | DULSC11 | \$15.60 |
| 1/8" | 5/8" | DULSC12 | \$16.54 |
| 3/16" | 5/8" | DULSC14 | \$17.83 |
| 1/4" | 5/8" | DULSC1 | \$17.84 |
| 1/4" | 1" | DULSC1A | \$20.90 |
| 5/16" | 3/4" | DULSC2 | \$21.52 |
| 5/16" | 1" | DULSC2A | \$30.92 |
| 3/8" | 3/4" | DULSC3 | \$23.18 |
| 3/8" | 1" | DULSC3A | \$27.48 |
| 3/8" | 1-1/2" | DULSC3B | \$34.50 |
| 7/16" | 1" | DULSC4 | \$34.42 |
| 1/2" | 1" | DULSC5 | \$37.95 |
| 5/8" | 1" | DULSC6 | \$42.93 |
| 3/4" | 1" | DULSC7 | \$63.33 |
| 1" | 1" | DULSC9 | \$107.54 |



DUL Series BALL END

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 1/8" | 3/32" | DULSD11 | \$15.99 |
| 3/16" | 1/4" | DULSD14 | \$15.58 |
| 1/4" | 3/16" | DULSD1 | \$16.22 |
| 5/16" | 1/4" | DULSD2 | \$17.57 |
| 3/8" | 5/16" | DULSD3 | \$18.96 |
| 7/16" | 3/8" | DULSD4 | \$24.02 |
| 1/2" | 7/16" | DULSD5 | \$26.64 |
| 5/8" | 9/16" | DULSD6 | \$35.79 |
| 3/4" | 11/16" | DULSD7 | \$47.62 |
| 1" | 15/16" | DULSD9 | \$81.74 |



DUL Series OVAL

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 3/16" | 5/16" | DULSE11 | \$19.60 |
| 1/4" | 3/8" | DULSE1 | \$19.60 |
| 3/8" | 5/8" | DULSE3 | \$21.36 |
| 1/2" | 7/8" | DULSE5 | \$35.30 |
| 5/8" | 1" | DULSE6 | \$49.21 |
| 3/4" | 1" | DULSE7 | \$65.88 |



DUL Series TREE (RADIUS END)

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 1/8" | 1/2" | DULSF11 | \$18.96 |
| 1/4" | 5/8" | DULSF1 | \$18.97 |
| 3/8" | 3/4" | DULSF3 | \$22.76 |
| 7/16" | 1" | DULSF4 | \$34.52 |
| 1/2" | 1" | DULSF5 | \$34.86 |
| 1/2" | 3/4" | DULSF13 | \$34.86 |
| 5/8" | 1" | DULSF6 | \$48.29 |
| 3/4" | 1" | DULSF7 | \$63.54 |
| 3/4" | 1-1/4" | DULSF14 | \$71.84 |
| 3/4" | 1-1/2" | DULSF15 | \$93.76 |



TREE (POINTED END)

| DUL Series | | | |
|------------------|---------------|-------------|------------|
| Cutting Diameter | Length Of Cut | Part Number | List Price |
| 1/4" | 5/8" | DULSG1 | \$18.96 |
| 5/16" | 3/4" | DULSG2 | \$21.91 |
| 3/8" | 3/4" | DULSG3 | \$24.24 |
| 1/2" | 1" | DULSG5 | \$34.42 |
| 1/2" | 3/4" | DULSG13 | \$35.32 |
| 5/8" | 1" | DULSG6 | \$47.64 |
| 3/4" | 1" | DULSG7 | \$63.54 |
| 3/4" | 1-1/2" | DULSG15 | \$93.76 |



DUL Series FLAME

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 1/4" | 5/8" | DULSH1 | \$21.52 |
| 5/16" | 3/4" | DULSH2 | \$22.75 |
| 1/2" | 1-1/4" | DULSH5 | \$49.24 |
| 5/8" | 1-7/16" | DULSH6 | \$69.72 |
| 3/4" | 1-5/8" | DULSH7 | \$90.49 |



DUL Series 60° (INCLUDED ANGLE)

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 1/4" | 3/16" | DULSJ1 | \$17.58 |
| 3/8" | 5/16" | DULSJ3 | \$21.62 |
| 1/2" | 7/16" | DULSJ5 | \$27.58 |
| 5/8" | 1/2" | DULSJ6 | \$34.69 |
| 3/4" | 5/8" | DULSJ7 | \$45.64 |
| 1" | 3/4" | DULSJ9 | \$73.22 |



SOLID CARBIDE BURS

90° (INCLUDED ANGLE)

DUL Series

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 1/4" | 1/8" | DULSK1 | \$16.50 |
| 5/16" | 3/16" | DULSK2 | \$23.26 |
| 3/8" | 3/16" | DULSK3 | \$22.16 |
| 1/2" | 1/4" | DULSK5 | \$26.81 |
| 5/8" | 5/16" | DULSK6 | \$33.80 |
| 3/4" | 3/8" | DULSK7 | \$45.93 |
| 1" | 1/2" | DULSK9 | \$73.13 |



DUL Series

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 1/4" | 1/2" | DULSM1 | \$19.02 |
| 1/4" | 3/4" | DULSM2 | \$20.25 |
| 1/4" | 1" | DULSM3 | \$21.93 |
| 1/4" | 1-1/4" | DULSM3A | \$29.53 |
| 3/8" | 5/8" | DULSM4 | \$29.14 |
| 1/2" | 7/8" | DULSM5 | \$38.06 |
| 5/8" | 1" | DULSM6 | \$50.52 |



6" OVERALL

DUL Series

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 1/4" | 1/2" | DULSA1X6 | \$27.98 |
| 3/8" | 3/4" | DULSA3X6 | \$31.82 |
| 1/2" | 1" | DULSA5X6 | \$43.50 |

CYLINDRICAL

CYLINDRICAL (RADIUS END)

| | | | |
|------|------|----------|---------|
| 1/4" | 1/2" | DULSC1X6 | \$32.14 |
| 3/8" | 3/4" | DULSC3X6 | \$36.66 |
| 1/2" | 1" | DULSC5X6 | \$52.92 |

BALL END

| | | | |
|------|-------|----------|---------|
| 1/2" | 7/16" | DULSD5X6 | \$42.17 |
|------|-------|----------|---------|

OVAL

| | | | |
|------|------|----------|---------|
| 1/4" | 3/8" | DULSE1X6 | \$34.03 |
| 3/8" | 5/8" | DULSE3X6 | \$38.27 |
| 1/2" | 7/8" | DULSE5X6 | \$47.92 |

ALUMINUM & NON-FERROUS

DUL Series

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 3/8" | 3/4" | DULSA3NF | \$24.93 |
| 1/2" | 1" | DULSA5NF | \$39.21 |
| 3/4" | 1" | DULSA7NF | \$68.65 |

CYLINDRICAL

CYLINDRICAL (END CUT)

| | | | |
|------|------|----------|---------|
| 3/8" | 3/4" | DULSB3NF | \$33.26 |
|------|------|----------|---------|

CYLINDRICAL (RADIUS END)

| | | | |
|------|------|----------|---------|
| 3/8" | 3/4" | DULSC3NF | \$29.07 |
| 1/2" | 1" | DULSC5NF | \$40.90 |
| 3/4" | 1" | DULSC7NF | \$86.66 |

BALL END

| | | | |
|------|------|----------|---------|
| 3/8" | 3/8" | DULSD3NF | \$26.64 |
| 1/2" | 1/2" | DULSD5NF | \$35.48 |
| 5/8" | 5/8" | DULSD6NF | \$45.50 |



CONE (RADIUS END 14° TAPER)

DUL Series

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 1/4" | 5/8" | DULSL1 | \$19.45 |
| 5/16" | 7/8" | DULSL2 | \$24.24 |
| 3/8" | 1-1/16" | DULSL3 | \$29.14 |
| 1/2" | 1-1/8" | DULSL4 | \$36.86 |
| 5/8" | 1-3/16" | DULSL5 | \$69.72 |
| 5/8" | 1-5/16" | DULSL6 | \$72.60 |
| 3/4" | 1-1/2" | DULSL7 | \$95.76 |



INVERTED CONE

DUL Series

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 1/4" | 5/16" | DULSN1 | \$17.34 |
| 3/8" | 3/8" | DULSN2 | \$31.99 |
| 1/2" | 1/2" | DULSN4 | \$34.30 |
| 5/8" | 3/4" | DULSN6 | \$53.83 |
| 3/4" | 5/8" | DULSN7 | \$72.42 |



DUL Series

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 1/4" | 1/2" | DULSF1X6 | \$33.33 |
| 3/8" | 3/4" | DULSF3X6 | \$38.57 |
| 1/2" | 1" | DULSF5X6 | \$50.56 |

TREE (RADIUS END)

TREE (POINTED END)

| | | | |
|------|------|----------|---------|
| 1/4" | 1/2" | DULSG1X6 | \$33.33 |
| 3/8" | 3/4" | DULSG3X6 | \$37.75 |
| 1/2" | 1" | DULSG5X6 | \$47.91 |

FLAME

| | | | |
|------|--------|----------|---------|
| 1/2" | 1-1/4" | DULSH5X6 | \$63.14 |
|------|--------|----------|---------|

CONE (RADIUS END 14°)

| | | | |
|------|---------|----------|---------|
| 3/8" | 1-1/16" | DULSL3X6 | \$42.84 |
|------|---------|----------|---------|

DUL Series

| Cutting Diameter | Length Of Cut | Part Number | List Price |
|------------------|---------------|-------------|------------|
| 1/2" | 7/8" | DULSE5NF | \$41.08 |
| 5/8" | 1" | DULSE6NF | \$66.44 |

OVAL

TREE (RADIUS END)

| | | | |
|------|------|----------|---------|
| 1/4" | 5/8" | DULSF1NF | \$26.43 |
| 3/8" | 3/4" | DULSF3NF | \$31.53 |
| 1/2" | 1" | DULSF5NF | \$41.94 |
| 5/8" | 1" | DULSF6NF | \$59.16 |

CONE (RADIUS END 14°)

| | | | |
|------|---------|----------|----------|
| 3/8" | 1-1/16" | DULSL3NF | \$35.19 |
| 1/2" | 1-1/8" | DULSL4NF | \$44.89 |
| 5/8" | 1-5/16" | DULSL6NF | \$89.64 |
| 3/4" | 1-1/2" | DULSL7NF | \$134.15 |



SOLID CARBIDE BURS

MINIATURE

| DUL series | | | |
|------------------|---------------|-------------|------------|
| Cutting Diameter | Length Of Cut | Part Number | List Price |

| CYLINDRICAL | | | |
|-------------|-------|---------|---------|
| 1/16" | 1/4" | DULSA41 | \$7.96 |
| 3/32" | 7/16" | DULSA42 | \$7.96 |
| 1/8" | 9/16" | DULSA43 | \$7.96 |
| 1/4" | 1/2" | DULSA51 | \$15.12 |
| 5/32" | 1/2" | DULSA52 | \$15.12 |
| 3/16" | 1/2" | DULSA53 | \$15.12 |
| 3/32" | 1/4" | DULSA61 | \$7.90 |
| 3/32" | 3/8" | DULSA63 | \$7.90 |
| 3/16" | 5/8" | DULSA81 | \$16.58 |

| CYLINDRICAL (END CUT) | | | |
|-----------------------|-------|---------|---------|
| 1/16" | 1/4" | DULSB41 | \$7.96 |
| 3/32" | 7/16" | DULSB42 | \$7.96 |
| 1/4" | 3/16" | DULSB51 | \$15.12 |

| CYLINDRICAL (RADIUS END) | | | |
|--------------------------|-------|---------|---------|
| 3/32" | 7/16" | DULSC41 | \$7.96 |
| 1/8" | 9/16" | DULSC42 | \$7.96 |
| 1/4" | 1/2" | DULSC51 | \$15.12 |
| 5/32" | 1/2" | DULSC52 | \$15.12 |
| 3/16" | 1/2" | DULSC53 | \$15.12 |
| 3/32" | 3/8" | DULSC61 | \$7.90 |
| 3/16" | 5/8" | DULSC81 | \$16.58 |

| BALL END | | | |
|----------|-------|---------|---------|
| 3/32" | 3/32" | DULSD41 | \$7.96 |
| 1/8" | 1/8" | DULSD42 | \$7.96 |
| 1/4" | 1/4" | DULSD51 | \$15.12 |
| 3/16" | 3/16" | DULSD53 | \$15.12 |
| 3/32" | 3/32" | DULSD61 | \$7.90 |
| 3/16" | 3/16" | DULSD81 | \$16.58 |

| OVAL | | | |
|-------|-------|---------|---------|
| 1/8" | 7/32" | DULSE41 | \$7.96 |
| 1/4" | 3/8" | DULSE51 | \$15.12 |
| 3/16" | 9/32" | DULSE53 | \$15.12 |
| 3/32" | 1/8" | DULSE61 | \$7.90 |
| 3/16" | 9/32" | DULSE81 | \$16.58 |

| TREE (RADIUS END) | | | |
|-------------------|------|---------|---------|
| 1/8" | 1/4" | DULSF41 | \$7.96 |
| 1/8" | 1/2" | DULSF42 | \$7.96 |
| 1/4" | 1/2" | DULSF51 | \$15.12 |
| 3/16" | 1/2" | DULSF53 | \$15.12 |
| 3/32" | 1/4" | DULSF61 | \$7.90 |
| 3/16" | 1/2" | DULSF81 | \$16.58 |

| DUL series | | | |
|------------------|---------------|-------------|------------|
| Cutting Diameter | Length Of Cut | Part Number | List Price |

| TREE (POINTED END) | | | |
|--------------------|------|---------|---------|
| 1/8" | 1/4" | DULSG41 | \$7.96 |
| 1/8" | 3/8" | DULSG43 | \$7.96 |
| 1/8" | 1/2" | DULSG44 | \$7.96 |
| 1/4" | 1/2" | DULSG51 | \$15.12 |
| 3/16" | 1/2" | DULSG53 | \$15.12 |
| 3/32" | 1/4" | DULSG61 | \$7.90 |
| 3/16" | 1/2" | DULSG81 | \$16.58 |

| FLAME | | | |
|-------|------|---------|---------|
| 1/8" | 1/4" | DULSH41 | \$7.96 |
| 3/16" | 3/8" | DULSH53 | \$15.12 |

| 60° (INCLUDED ANGLE) | | | |
|----------------------|-------|---------|---------|
| 1/8" | 3/32" | DULSJ42 | \$7.96 |
| 3/16" | 3/16" | DULSJ81 | \$16.58 |

| 90° (INCLUDED ANGLE) | | | |
|----------------------|-------|---------|---------|
| 1/8" | 1/16" | DULSK42 | \$7.96 |
| 3/16" | 1/2" | DULSK81 | \$16.58 |

| CONE (RADIUS END 14° TAPER) | | | |
|-----------------------------|-------|---------|---------|
| 1/8" | 3/8" | DULSL41 | \$7.96 |
| 1/8" | 1/2" | DULSL42 | \$7.96 |
| 3/16" | 1/2" | DULSL53 | \$15.12 |
| 3/16" | 7/16" | DULSL81 | \$16.58 |

| CONE (POINTED END) | | | |
|--------------------|--------|---------|---------|
| 1/8" | 11/32" | DULSM41 | \$7.96 |
| 1/8" | 7/16" | DULSM42 | \$7.96 |
| 1/8" | 5/8" | DULSM43 | \$7.96 |
| 1/4" | 1/2" | DULSM51 | \$15.12 |
| 3/16" | 1/2" | DULSM53 | \$15.12 |
| 3/32" | 1/4" | DULSM61 | \$7.90 |
| 3/16" | 1/2" | DULSM81 | \$16.58 |

**40 & 50 Series have 1/8" Shank Diameter.
60 Series have 3/32" Shank Diameter.
80 Series have 3/16" Shank Diameter.**



SOLID CARBIDE BUR SETS

DUL series

| Part Number | # of Pieces | Includes | List Price |
|-------------|-------------|---|------------|
| DUL1SET | 12 pc | SA1, SA5, SC1, SC5, SD1, SD5, SE5, SF13, SG5, SH1, SL4 & SN2 | \$516.30 |
| DUL2SET | 28 pc | SA1, SA3, SA5, SC1, SC3, SC5, SD1, SD3, SD5, SE1, SE3, SE5, SF1, SF3, SF5, SG1, SG3, SG5, SH2, SH5, SL1, SL2, SL4, SM3, SM4, SM5, SN1 & SN4 | \$990.25 |
| DUL3SET | 8 pc | SA5, SC3, SC5, SD5, SF3, SF5, SG3 & SL4 | \$280.48 |
| DUL4SET | 8 pc | SA1, SC1, SD1, SE1, SF1, SG1, SM2 & SN1 | \$200.34 |
| DUL5SET | 11 pc | SA42, SA43, SC42, SD42, SE41, SF42, SG41, SG43, SH41, SM43 & SN42 | \$128.22 |



ABRASIVES

ALUMINUM OXIDE CLOTH ROLLS (HANDY ROLLS)

Handy Rolls, made of high grade, resin-bonded, J-wt. Cloth material, are packaged 50 Yards per Roll. The flexibility of these cloth rolls allows for contour work. They come packaged in storage containers for easy dispensing.

1" WIDE

DEW Series

| Size | Grit | Part Number | List Price |
|------|------|-------------|------------|
| 1" | 40 | DEW140 | \$34.20 |
| 1" | 50 | DEW150 | \$32.76 |
| 1" | 60 | DEW160 | \$31.34 |
| 1" | 80 | DEW180 | \$31.34 |
| 1" | 100 | DEW1100 | \$31.34 |
| 1" | 120 | DEW1120 | \$31.34 |
| 1" | 150 | DEW1150 | \$31.34 |
| 1" | 180 | DEW1180 | \$31.34 |
| 1" | 220 | DEW1220 | \$31.34 |
| 1" | 240 | DEW1240 | \$31.34 |
| 1" | 320 | DEW1320 | \$31.34 |
| 1" | 400 | DEW1400 | \$31.34 |

1 - 1/2" WIDE

DEW Series

| Size | Grit | Part Number | List Price |
|--------|------|-------------|------------|
| 1-1/2" | 40 | DEW11240 | \$44.88 |
| 1-1/2" | 50 | DEW11250 | \$43.00 |
| 1-1/2" | 60 | DEW11260 | \$41.14 |
| 1-1/2" | 80 | DEW11280 | \$41.14 |
| 1-1/2" | 100 | DEW112100 | \$41.14 |
| 1-1/2" | 120 | DEW112120 | \$41.14 |
| 1-1/2" | 150 | DEW112150 | \$41.14 |
| 1-1/2" | 180 | DEW112180 | \$41.14 |
| 1-1/2" | 220 | DEW112220 | \$41.14 |
| 1-1/2" | 240 | DEW112240 | \$41.14 |
| 1-1/2" | 320 | DEW112320 | \$41.14 |
| 1-1/2" | 400 | DEW112400 | \$41.14 |



2" WIDE

DEW Series

| Size | Grit | Part Number | List Price |
|------|------|-------------|------------|
| 2" | 40 | DEW240 | \$56.39 |
| 2" | 50 | DEW250 | \$56.39 |
| 2" | 60 | DEW260 | \$54.47 |
| 2" | 80 | DEW280 | \$51.88 |
| 2" | 100 | DEW2100 | \$51.88 |
| 2" | 120 | DEW2120 | \$51.88 |

DEW Series

| Size | Grit | Part Number | List Price |
|------|------|-------------|------------|
| 2" | 150 | DEW2150 | \$51.88 |
| 2" | 180 | DEW2180 | \$51.88 |
| 2" | 220 | DEW2220 | \$51.88 |
| 2" | 240 | DEW2240 | \$51.88 |
| 2" | 320 | DEW2320 | \$51.88 |
| 2" | 400 | DEW2400 | \$51.88 |

FILES

DIC Series

FLAT

| Length | Bastard | List Price | 2nd Cut | List Price | Smooth | List Price |
|--------|----------|------------|----------|------------|----------|------------|
| 4" | DIC03367 | \$6.68 | DIC03401 | \$7.02 | DIC03434 | \$8.34 |
| 6" | DIC03467 | \$7.02 | DIC03500 | \$7.46 | DIC03533 | \$8.87 |
| 8" | DIC03566 | \$8.72 | DIC03599 | \$9.66 | DIC03632 | \$10.29 |
| 10" | DIC03665 | \$10.82 | DIC03698 | \$12.43 | DIC03731 | \$13.75 |
| 12" | DIC03764 | \$14.82 | DIC03797 | \$16.82 | DIC03830 | \$18.62 |
| 14" | DIC03863 | \$20.48 | DIC03896 | \$23.55 | DIC03929 | \$25.79 |
| 16" | DIC03980 | \$27.01 | DIC03981 | \$32.37 | DIC03982 | \$46.13 |

Flat Files are used by machinists, machinery builders, ship and engine builders, repairmen and others who require rapid removal of metal. They are rectangular in cross section and taper slightly towards the point in both width and thickness. Double cut on both sides, single cut on both edges.



DIC Series

HALF ROUND

| Length | Bastard | List Price | 2nd Cut | List Price | Smooth | List Price |
|--------|----------|------------|----------|------------|----------|------------|
| 4" | DIC04695 | \$10.19 | DIC04729 | \$11.31 | DIC04762 | \$11.89 |
| 6" | DIC04795 | \$10.58 | DIC04828 | \$12.04 | DIC04861 | \$12.49 |
| 8" | DIC04896 | \$12.77 | DIC04927 | \$14.19 | DIC04960 | \$15.21 |
| 10" | DIC04995 | \$15.90 | DIC05026 | \$17.31 | DIC05059 | \$18.19 |
| 12" | DIC05094 | \$20.48 | DIC05125 | \$22.28 | DIC05158 | \$23.46 |
| 14" | DIC05194 | \$26.63 | DIC05225 | \$28.77 | DIC05258 | \$31.06 |

Rounded on one side, flat on the other. Used on concave and convex as well as flat surfaces. The backs of all Half Round Bastard Files are double cut. The Backs of all Half Round Second Cut Files longer than 6" are double cut, the 4" and 6" files are single cut. The backs of all Half Round Smooth files are single cut. The flat sides of all Half Files are double cut.



DIC Series

MILL

| Length | Bastard | List Price | 2nd Cut | List Price | Smooth | List Price |
|--------|----------|------------|----------|------------|----------|------------|
| 6" | DIC08354 | \$4.78 | DIC08385 | \$6.92 | DIC08416 | \$7.37 |
| 8" | DIC08497 | \$5.70 | DIC08529 | \$7.80 | DIC08560 | \$8.63 |
| 10" | DIC08642 | \$7.37 | DIC08673 | \$9.94 | DIC08704 | \$10.58 |
| 12" | DIC08737 | \$12.04 | DIC08768 | \$13.11 | DIC08799 | \$14.44 |
| 14" | DIC08832 | \$16.24 | - | - | DIC08894 | \$19.94 |

For sharpening Mill or Circular Saws. Also for drawfiling, and metals. All sizes tapered slightly in width, 12" and 14" slightly in thickness for about one-third of length. Two square edges. Single cut on sides and edges.



DIC Series

ROUND

| Length | Bastard | List Price | 2nd Cut | List Price | Smooth | List Price |
|--------|----------|------------|----------|------------|----------|------------|
| 4" | DIC11526 | \$5.61 | DIC11559 | \$6.15 | DIC11592 | \$6.73 |
| 6" | DIC11716 | \$5.61 | DIC11748 | \$6.43 | DIC11781 | \$7.02 |
| 8" | DIC11904 | \$6.43 | DIC11936 | \$7.46 | DIC11969 | \$8.34 |
| 10" | DIC12019 | \$8.34 | DIC12051 | \$9.81 | DIC12084 | \$10.82 |
| 12" | DIC12134 | \$11.55 | DIC12166 | \$13.17 | DIC12199 | \$14.33 |
| 14" | DIC12248 | \$16.48 | DIC12282 | \$19.75 | DIC12250 | \$21.51 |

Principal use is to file circular opening or concave surfaces. Tapered slightly towards point. All 4", 6", 8" and 10" files are single cut. 12" bastard and second cut are double cut, 12" smooth is single cut and 14" bastard is double cut.



DIC Series

SQUARE

| Length | Bastard | List Price | 2nd Cut | List Price | Smooth | List Price |
|--------|----------|------------|----------|------------|----------|------------|
| 4" | DIC12790 | \$7.46 | DIC12824 | \$8.34 | DIC12857 | \$8.72 |
| 6" | DIC12967 | \$7.80 | DIC13000 | \$8.72 | DIC13033 | \$9.21 |
| 8" | DIC13081 | \$9.21 | DIC13114 | \$10.48 | DIC13147 | \$11.61 |
| 10" | DIC13196 | \$12.24 | DIC13229 | \$14.09 | DIC13262 | \$15.17 |
| 12" | DIC13310 | \$17.36 | DIC13343 | \$19.50 | DIC13376 | \$21.36 |
| 14" | DIC13425 | \$22.86 | DIC13426 | \$29.26 | DIC13427 | \$32.03 |
| 16" | - | - | - | - | DIC13428 | \$35.18 |

For filing slots, keyways and general surfaces filing. Larger sizes frequently preferred to corresponding Flat Files because of heavier section and for filing surfaces. Tapered slightly towards point. Double cut.



DIC Series

THREE SQUARE

| Length | Bastard | List Price | 2nd Cut | List Price | Smooth | List Price |
|--------|----------|------------|----------|------------|----------|------------|
| 6" | DIC15925 | \$9.32 | DIC15958 | \$10.48 | DIC15991 | \$10.58 |
| 8" | DIC16036 | \$11.12 | DIC16069 | \$12.62 | DIC16102 | \$13.31 |
| 10" | DIC16147 | \$13.90 | DIC16180 | \$15.12 | DIC16213 | \$16.00 |
| 12" | DIC16214 | \$20.82 | DIC16215 | \$22.62 | DIC16216 | \$23.99 |

Three square Files are triangular in cross section, and are double cut and have fairly sharp corners that are slightly set and cut. These files are for general use by machinists for filing internal angles more than the right angle, for clearing out square corners and filing taps and cutters. Grading of cuts according to coarseness is same as Square File.



INDEXES & DISPENSERS

DRILL INDEXES

HUT Series

| Capacity | Description | Part Number | List Price |
|----------|-----------------------------|-------------|------------|
| 13 pc | 1/16" to 1/4" x 64ths | HUT313 | \$10.12 |
| 21 pc | 1/16" to 3/8" x 64ths | HUT21 | \$15.24 |
| 15 pc | 1/16" to 1/2" x 32nds | HUT15 | \$15.21 |
| 29 pc | 1/16" to 1/2" x 64ths | HUT29 | \$16.96 |
| 26 pc | Letter Sizes A to Z | HUT26 | \$16.96 |
| 60 pc | Wire Gauge Sizes #1 to #60 | HUT60 | \$14.76 |
| 20 pc | Wire Gauge Sizes #61 to #80 | HUT20 | \$11.67 |
| 80 pc | Wire Gauge Sizes #1 to #80 | HUT80 | \$66.14 |
| 8 pc | 9/16" to 1" x 16ths S&D | HUT88SD | \$59.48 |



METRIC DRILL INDEXES

HUT Series

| Capacity | Description | Part Number | List Price |
|----------|----------------------|-------------|------------|
| 11 pc | 1mm to 6mm x 0.5mm | HUT4011 | \$12.08 |
| 13 pc | 1mm to 7mm x 0.5mm | HUT4013 | \$12.08 |
| 19 pc | 1mm to 10mm x 0.5mm | HUT4019 | \$19.05 |
| 25 pc | 1mm to 13mm x 0.5mm | HUT4025 | \$19.08 |
| 50 pc | 1mm to 5.9mm x 0.1mm | HUT4050 | \$28.13 |
| 41 pc | 6mm to 10mm x 0.1mm | HUT4041 | \$83.29 |

DRILL STANDS

HUT Series

| Capacity | Description | Part Number | List Price |
|----------|--------------------------------|-------------|------------|
| 29 pc | 1/16" to 1/2" x 64ths | HUT829 | \$19.80 |
| 26 pc | Letter Sizes A to Z | HUT826 | \$18.32 |
| 60 pc | Wire Gauge Sizes No. #1 to #60 | HUT860 | \$19.80 |
| 33 pc | S&D 1/2" to 1" x 64ths | HUT833SD | \$79.60 |



DRILL DISPENSERS & DISPLAYS

HUT Series

| Description | Part Number | List Price |
|--|-------------|------------|
| 1/16" to 1/2" x 64ths Drill Dispenser | HUT1 | \$254.39 |
| #1 to #60 Drill Dispenser | HUT2 | \$321.61 |
| A to Z Drill Dispenser | HUT3 | \$253.50 |
| Metric 1mm to 13mm by 0.5mm Drill Dispenser | HUT4 | \$289.47 |
| Metric 1mm to 6.9mm by 0.1mm Drill Dispenser | HUT5 | \$394.70 |
| 1/16" to 1/2" x 64ths Counter Display (Red) | HUT6 | \$581.83 |
| 1/16" to 1/2" x 64ths Counter Display (Blue) | HUT6BLUE | \$581.83 |
| Wire Gauge Sizes #1 to #60 Counter Display | HUT7 | \$834.41 |
| Letter Sizes A to Z Counter Display | HUT8 | \$657.85 |



INDEXES & DISPENSERS

COMBINATION INDEX

HUT Series

| Capacity | Description | Part Number | List Price |
|----------|------------------------------------|-------------|------------|
| 115 pc | 1/16" to 1/2", A to Z #1 to #60 | HUT115 | \$81.09 |



TAPER SHANK & TAPER LENGTH INDEXES

HUT Series

| Capacity | Description | Part Number | List Price |
|----------|--|-------------|------------|
| 29 pc | 1/16" to 1/2" x 64ths Taper Length | HUT329 | \$52.28 |
| 16 pc | 33/64" to 3/4" x 64ths Taper Shank or Taper Length | HUT1016 | \$206.18 |
| 16 pc | 49/64" to 1" x 64ths Taper Shank or Taper Length | HUT2016 | \$229.23 |



TAP DISPENSERS

HUT Series

| Description | Part Number | List Price |
|-------------------------|-------------|------------|
| Taps 1/4"-20 to 1"-14 | HUT13500 | \$277.78 |
| Taps 2-56 to 12-28 | HUT13550 | \$345.02 |
| Metric taps 3mm to 24mm | HUT13575 | \$307.00 |



BUR DISPENSER

HUT Series

| Description | Part Number | List Price |
|-----------------------|-------------|------------|
| Carbide Bur Dispenser | HUT13200 | \$304.08 |



DRILL GAUGES

HUT Series

| Description | Part Number | List Price |
|---------------------------|-------------|------------|
| 1/16" to 1/2" x 64ths | HUT9092 | \$9.21 |
| Wire Gauge Sizes #1 to 60 | HUT12260 | \$18.32 |



CARBIDE TIPPED TOOL BITS

GRADE C2 - General purpose for cast-iron and non-ferrous materials
 GRADE C6 - General purpose for steel

STYLE A & B, LEFT & RIGHT HAND

15° Lead Angle



| DEWA Series | | LEFT HAND | RIGHT HAND | |
|-------------|--------|-------------|-------------|------------|
| Size | O.A.L. | Part Number | Part Number | List Price |
| 1/4" | 2" | DEWAL-4C2 | DEWAR-4C2 | \$7.82 |
| 1/4" | 2" | DEWAL-4C6 | DEWAR-4C6 | \$7.82 |
| 5/16" | 2-1/4" | DEWAL-5C2 | DEWAR-5C2 | \$7.82 |
| 5/16" | 2-1/4" | DEWAL-5C6 | DEWAR-5C6 | \$7.82 |
| 3/8" | 2-1/2" | DEWAL-6C2 | DEWAR-6C2 | \$7.82 |
| 3/8" | 2-1/2" | DEWAL-6C6 | DEWAR-6C6 | \$7.82 |
| 7/16" | 3" | DEWAL-7C2 | DEWAR-7C2 | \$7.93 |
| 7/16" | 3" | DEWAL-7C6 | DEWAR-7C6 | \$7.93 |
| 1/2" | 3-1/2" | DEWAL-8C2 | DEWAR-8C2 | \$8.62 |
| 1/2" | 3-1/2" | DEWAL-8C6 | DEWAR-8C6 | \$8.62 |
| 5/8" | 4" | DEWAL-10C2 | DEWAR-10C2 | \$10.87 |
| 5/8" | 4" | DEWAL-10C6 | DEWAR-10C6 | \$10.87 |
| 3/4" | 4-1/2" | DEWAL-12C2 | DEWAR-12C2 | \$18.15 |
| 3/4" | 4-1/2" | DEWAL-12C6 | DEWAR-12C6 | \$18.15 |
| 1" | 7" | DEWAL-16C2 | DEWAR-16C2 | \$31.26 |
| 1" | 7" | DEWAL-16C6 | DEWAR-16C6 | \$31.26 |

| DEWB Series | | LEFT HAND | RIGHT HAND | |
|-------------|--------|-------------|-------------|------------|
| Size | O.A.L. | Part Number | Part Number | List Price |
| 1/4" | 2" | DEWBL-4C2 | DEWBR-4C2 | \$8.28 |
| 1/4" | 2" | DEWBL-4C6 | DEWBR-4C6 | \$8.28 |
| 5/16" | 2-1/4" | DEWBL-5C2 | DEWBR-5C2 | \$8.28 |
| 5/16" | 2-1/4" | DEWBL-5C6 | DEWBR-5C6 | \$8.28 |
| 3/8" | 2-1/2" | DEWBL-6C2 | DEWBR-6C2 | \$8.28 |
| 3/8" | 2-1/2" | DEWBL-6C6 | DEWBR-6C6 | \$8.28 |
| 7/16" | 3" | DEWBL-7C2 | DEWBR-7C2 | \$8.97 |
| 7/16" | 3" | DEWBL-7C6 | DEWBR-7C6 | \$8.97 |
| 1/2" | 3-1/2" | DEWBL-8C2 | DEWBR-8C2 | \$9.33 |
| 1/2" | 3-1/2" | DEWBL-8C6 | DEWBR-8C6 | \$9.33 |
| 5/8" | 4" | DEWBL-10C2 | DEWBR-10C2 | \$12.94 |
| 5/8" | 4" | DEWBL-10C6 | DEWBR-10C6 | \$12.94 |
| 3/4" | 4-1/2" | DEWBL-12C2 | DEWBR-12C2 | \$18.15 |
| 3/4" | 4-1/2" | DEWBL-12C6 | DEWBR-12C6 | \$18.15 |
| 1" | 7" | DEWBL-16C6 | -- | \$31.26 |

STYLE C, D, & E

SQUARE NOSE

80° POINT

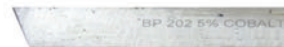
60° POINT



| DEWC Series | | | |
|-------------|--------|-------------|------------|
| Size | O.A.L. | Part Number | List Price |
| 1/4" | 2" | DEWC-4C2 | \$8.28 |
| 1/4" | 2" | DEWC-4C6 | \$8.28 |
| 5/16" | 2-1/4" | DEWC-5C2 | \$8.28 |
| 5/16" | 2-1/4" | DEWC-5C6 | \$8.28 |
| 3/8" | 2-1/2" | DEWC-6C2 | \$8.28 |
| 3/8" | 2-1/2" | DEWC-6C6 | \$8.28 |
| 7/16" | 3" | DEWC-7C2 | \$8.97 |
| 7/16" | 3" | DEWC-7C6 | \$8.97 |
| 1/2" | 3-1/2" | DEWC-8C2 | \$9.33 |
| 1/2" | 3-1/2" | DEWC-8C6 | \$9.33 |
| 5/8" | 4" | DEWC-10C2 | \$12.94 |
| 5/8" | 4" | DEWC-10C6 | \$12.94 |
| 3/4" | 4-1/2" | DEWC-12C2 | \$21.03 |
| 3/4" | 4-1/2" | DEWC-12C6 | \$21.03 |
| 1" | 7" | DEWC-16C2 | \$32.75 |
| 1" | 7" | DEWC-16C6 | \$32.75 |

| DEWD Series | | | |
|-------------|--------|-------------|------------|
| Size | O.A.L. | Part Number | List Price |
| 1/4" | 2" | DEWD-4C2 | \$8.28 |
| 1/4" | 2" | DEWD-4C6 | \$8.28 |
| 5/16" | 2-1/4" | DEWD-5C2 | \$8.28 |
| 5/16" | 2-1/4" | DEWD-5C6 | \$8.28 |
| 3/8" | 2-1/2" | DEWD-6C2 | \$8.28 |
| 3/8" | 2-1/2" | DEWD-6C6 | \$8.28 |
| 7/16" | 3" | DEWD-7C2 | \$8.97 |
| 7/16" | 3" | DEWD-7C6 | \$8.97 |
| 1/2" | 3-1/2" | DEWD-8C2 | \$9.33 |
| 1/2" | 3-1/2" | DEWD-8C6 | \$9.33 |
| 5/8" | 4" | DEWD-10C2 | \$12.94 |
| 5/8" | 4" | DEWD-10C6 | \$12.94 |
| 3/4" | 4-1/2" | DEWD-12C2 | \$19.05 |
| 3/4" | 4-1/2" | DEWD-12C6 | \$19.05 |
| 1" | 7" | DEWD-16C2 | \$32.55 |
| 1" | 7" | DEWD-16C6 | \$32.55 |

| DEWE Series | | | |
|-------------|--------|-------------|------------|
| Size | O.A.L. | Part Number | List Price |
| 1/4" | 2" | DEWE-4C2 | \$8.28 |
| 1/4" | 2" | DEWE-4C6 | \$8.28 |
| 5/16" | 2-1/4" | DEWE-5C2 | \$8.28 |
| 5/16" | 2-1/4" | DEWE-5C6 | \$8.17 |
| 3/8" | 2-1/2" | DEWE-6C2 | \$8.28 |
| 3/8" | 2-1/2" | DEWE-6C6 | \$8.28 |
| 7/16" | 3" | DEWE-7C2 | \$8.97 |
| 7/16" | 3" | DEWE-7C6 | \$8.97 |
| 1/2" | 3-1/2" | DEWE-8C2 | \$9.33 |
| 1/2" | 3-1/2" | DEWE-8C6 | \$9.33 |
| 5/8" | 4" | DEWE-10C2 | \$12.94 |
| 5/8" | 4" | DEWE-10C6 | \$12.94 |
| 3/4" | 4-1/2" | DEWE-12C2 | \$18.03 |
| 3/4" | 4-1/2" | DEWE-12C6 | \$18.03 |



HSS CUTOFF BLADES

HSS & COBALT SQUARE TOOL BITS

DEWCOB Series

| DEWTB Series | | | | |
|--------------|--------------|------------|---------------|------------|
| Size | Part Number | List Price | Part Number | List Price |
| 1/8"x2-1/2" | DEWTBHS1/8 | \$3.10 | DEWTBCOB1/8 | \$5.76 |
| 3/16"x2-1/2" | DEWTBHS3/16 | \$3.10 | DEWTBCOB3/16 | \$5.76 |
| 1/4"x2-1/2" | DEWTBHS1/4 | \$3.63 | DEWTBCOB1/4 | \$6.52 |
| 5/16"x2-1/2" | DEWTBHS5/16 | \$5.08 | DEWTBCOB5/16 | \$8.14 |
| 3/8"x3" | DEWTBHS3/8 | \$6.81 | DEWTBCOB3/8 | \$10.97 |
| 7/16"x3-1/2" | DEWTBHS7/16 | \$10.01 | DEWTBCOB7/16 | \$17.11 |
| 1/2"x4" | DEWTBHS1/2 | \$14.36 | DEWTBCOB1/2 | \$24.40 |
| 5/8"x4-1/2" | DEWTBHS5/8 | \$21.26 | DEWTBCOB5/8 | \$37.82 |
| 3/4"x5" | DEWTBHS3/4 | \$33.59 | DEWTBCOB3/4 | \$59.11 |
| 7/8"x6" | DEWTBHS7/8 | \$55.18 | DEWTBCOB7/8 | \$95.11 |
| 1"x7" | DEWTBHS1INCH | \$79.62 | DEWTBCOB1INCH | \$133.25 |
| 1-1/4"x7" | DEWTBHS1-1/4 | \$149.94 | DEWTBCOB1-1/4 | \$265.53 |

| W | H | O.A.L. | Part Number | List Price |
|-------|------|--------|----------------|------------|
| 3/32" | 1/2" | 6" | DEWCOB3/32X1/2 | \$23.11 |
| 3/32" | 5/8" | 6" | DEWCOB3/32X5/8 | \$24.57 |
| 1/8" | 3/4" | 6" | DEWCOB1/8X3/4 | \$29.41 |
| 1/8" | 7/8" | 6" | DEWCOB1/8X7/8 | \$35.34 |
| 3/16" | 1" | 6-1/2" | DEWCOB3/16X1 | \$42.08 |

COBALT CUTOFF BLADES

| W | H | O.A.L. | Part Number | List Price |
|-------|------|--------|------------------|------------|
| 3/32" | 1/2" | 6" | DEWCOBCO3/32X1/2 | \$26.76 |
| 3/32" | 5/8" | 6" | DEWCOBCO3/32X5/8 | \$34.32 |
| 1/8" | 3/4" | 6" | DEWCOBCO1/8X3/4 | \$42.25 |
| 1/8" | 7/8" | 6" | DEWCOBCO1/8X7/8 | \$51.81 |
| 3/16" | 1" | 6-1/2" | DEWCOBCO3/16X1 | \$65.27 |

WOOD WORKING

SELF FEED BITS

DMS70 Series

| Size | Part Number | List Price |
|---------|-------------|------------|
| 1" | DMS70-3002 | \$35.32 |
| 1-1/8" | DMS70-3003 | \$35.32 |
| 1-1/4" | DMS70-3005 | \$37.84 |
| 1-3/8" | DMS70-3010 | \$44.34 |
| 1-1/2" | DMS70-3020 | \$44.34 |
| 1-3/4" | DMS70-3030 | \$44.34 |
| 2" | DMS70-3033 | \$44.34 |
| 2-1/8" | DMS70-3035 | \$54.43 |
| 2-1/4" | DMS70-3040 | \$54.43 |
| 2-9/16" | DMS70-3060 | \$64.51 |
| 3" | DMS70-3065 | \$88.71 |
| 3-5/8" | DMS70-3070 | \$114.91 |
| 4-5/8" | DMS70-3080 | \$193.54 |



SPADE BITS

DMS71 Series

| Size | Part Number | List Price |
|------------------------|-------------|------------|
| 3/8"x6" | DMS71-0003 | \$3.18 |
| 1/2"x6" | DMS71-0004 | \$3.35 |
| 5/8"x6" | DMS71-0006 | \$3.91 |
| 3/4"x6" | DMS71-0008 | \$4.26 |
| 7/8"x6" | DMS71-0009 | \$4.84 |
| 1"x6" | DMS71-0011 | \$5.46 |
| 1-1/8"x6" | DMS71-0013 | \$5.59 |
| 1-1/4"x6" | DMS71-0015 | \$6.29 |
| 1-3/8"x6" | DMS71-0016 | \$7.08 |
| 1-1/2"x6" | DMS71-0018 | \$7.71 |
| 3/8"x16" | DMS71-1603 | \$12.42 |
| 1/2"x16" | DMS71-1604 | \$12.42 |
| 3/4"x16" | DMS71-1608 | \$12.75 |
| 1"x16" | DMS71-1611 | \$13.69 |
| 1-1/2"x16" | DMS71-1618 | \$20.44 |
| 6 PC. SET (3/8"-1"x6") | DMS71-1040 | \$19.13 |



AUGER BITS

DMS73 Series

| Size | Part Number | List Price |
|-----------|-------------|------------|
| 3/8"x7" | DMS73-0002 | \$17.07 |
| 1/2"x7" | DMS73-0004 | \$18.93 |
| 5/8"x7" | DMS73-0007 | \$21.66 |
| 3/4"x7" | DMS73-0009 | \$23.51 |
| 7/8"x7" | DMS73-0010 | \$28.22 |
| 1"x7" | DMS73-0011 | \$30.53 |
| 1-1/8"x7" | DMS73-0012 | \$31.38 |
| 1-1/4"x7" | DMS73-0014 | \$36.29 |
| 1-3/8"x7" | DMS73-0016 | \$44.67 |
| 1-1/2"x7" | DMS73-0018 | \$55.17 |



SHIP AUGER BITS

DMS73 Series

| Size | Part Number | List Price |
|------------|-------------|------------|
| 3/8"x18" | DMS73-1010 | \$21.94 |
| 7/16"x18" | DMS73-1015 | \$26.12 |
| 1/2"x18" | DMS73-1020 | \$26.12 |
| 9/16"x18" | DMS73-1025 | \$29.68 |
| 5/8"x18" | DMS73-1030 | \$29.39 |
| 3/4"x18" | DMS73-1040 | \$30.80 |
| 7/8"x18" | DMS73-1050 | \$37.55 |
| 1"x18" | DMS73-1060 | \$45.11 |
| 1-1/8"x18" | DMS73-1070 | \$52.85 |
| 1-1/4"x18" | DMS73-1080 | \$61.33 |
| 1-3/8"x18" | DMS73-1090 | \$83.21 |
| 1-1/2"x18" | DMS73-1100 | \$92.83 |



LONG AUGER BITS

DMS73 Series

| Size | Part Number | List Price |
|-------------|-------------|------------|
| 9/16"x23" | DMS73-4009 | \$116.29 |
| 5/8"x23" | DMS73-4010 | \$117.48 |
| 11/16"x23" | DMS73-4011 | \$130.59 |
| 3/4"x23" | DMS73-4012 | \$133.08 |
| 13/16"x23" | DMS73-4013 | \$136.48 |
| 7/8"x23" | DMS73-4014 | \$147.33 |
| 15/16"x23" | DMS73-4015 | \$158.01 |
| 1"x23" | DMS73-4016 | \$161.34 |
| 9/16"x30" | DMS73-5009 | \$308.96 |
| 5/8"x30" | DMS73-5010 | \$270.46 |
| 11/16"x30" | DMS73-5011 | \$273.56 |
| 3/4"x30" | DMS73-5012 | \$276.11 |
| 13/16"x30" | DMS73-5013 | \$281.54 |
| 7/8"x30" | DMS73-5014 | \$295.78 |
| 15/16"x30" | DMS73-5015 | \$297.53 |
| 1"x30" | DMS73-5016 | \$310.25 |
| 1-1/16"x30" | DMS73-5017 | \$345.87 |
| 1-1/8"x30" | DMS73-5018 | \$400.31 |
| 1-1/2"x30" | DMS73-5024 | \$835.11 |

NAIL BUSTER AUGER BITS

DMS73 Series

| Size | Part Number | List Price |
|------------|-------------|------------|
| 1/2"x8" | DMS73-2510 | \$29.45 |
| 5/8"x8" | DMS73-2530 | \$31.58 |
| 3/4"x8" | DMS73-2550 | \$33.35 |
| 7/8"x8" | DMS73-2570 | \$40.31 |
| 1"x8" | DMS73-2590 | \$51.22 |
| 1-1/8"x8" | DMS73-2600 | \$55.73 |
| 3/8"x18" | DMS73-2030 | \$43.14 |
| 1/2"x18" | DMS73-2050 | \$45.39 |
| 5/8"x18" | DMS73-2070 | \$50.43 |
| 3/4"x18" | DMS73-2090 | \$59.93 |
| 7/8"x18" | DMS73-2100 | \$66.48 |
| 1"x18" | DMS73-2120 | \$83.50 |
| 1-1/8"x18" | DMS73-2130 | \$91.01 |
| 1-1/4"x18" | DMS73-2140 | \$91.87 |
| 1-3/8"x18" | DMS73-2150 | \$122.85 |
| 1-1/2"x18" | DMS73-2160 | \$133.54 |



WOOD WORKING

RECIPROCATING SAW BLADES

DMS03 Series

| Description | Part Number | List Price |
|-------------------|-------------|------------|
| 4"x.035 14TPI | DMS03-7414 | \$2.06 |
| 4"x.035 18TPI | DMS03-7418 | \$2.06 |
| 4"x.035 24TPI | DMS03-7424 | \$2.06 |
| 6"x.035 6TPI | DMS03-7606 | \$2.75 |
| 6"x.035 10TPI | DMS03-7610 | \$2.75 |
| 6"x.035 14TPI | DMS03-7614 | \$2.75 |
| 6"x.035 18TPI | DMS03-7618 | \$2.75 |
| 6"x.035 24TPI | DMS03-7624 | \$2.75 |
| 6"x7/8x.062 6TPI | DMS03-7666 | \$5.89 |
| 8"x.050 10TPI | DMS03-7810 | \$4.51 |
| 8"x.050 14TPI | DMS03-7814 | \$4.51 |
| 8"x.050 18TPI | DMS03-7818 | \$4.51 |
| 9"x.050 6TPI | DMS03-7906 | \$4.87 |
| 12"x.050 10/14TPI | DMS03-7203 | \$6.79 |
| 12"x.050 6TPI | DMS03-7206 | \$6.79 |
| 12"x.050 14TPI | DMS03-7214 | \$6.79 |
| 12"x.050 18TPI | DMS03-7218 | \$6.79 |



BRAD POINT

DMS68 Series

| Size | Part Number | List Price |
|-------|-------------|------------|
| 1/8" | DMS68-0010 | \$1.95 |
| 5/32" | DMS68-0020 | \$2.30 |
| 3/16" | DMS68-0030 | \$2.42 |
| 1/4" | DMS68-0040 | \$2.54 |
| 5/16" | DMS68-0050 | \$2.88 |
| 3/8" | DMS68-0060 | \$3.23 |
| 7/16" | DMS68-0070 | \$3.80 |
| 1/2" | DMS68-0080 | \$4.84 |
| *5/8" | DMS68-0090 | \$6.10 |
| *3/4" | DMS68-0100 | \$7.95 |

*1/2 Reduced Shank



FORSTNER DRILL BIT SETS

| | | |
|------------------|------------|----------|
| 7PC 1/4"-1" | DMS70-2007 | \$55.07 |
| 16PC 1/4"-2-1/8" | DMS70-2016 | \$228.10 |



BIMETAL HACKSAW BLADES

DMS02 Series

| Description | Part Number | List Price |
|-------------|-------------|------------|
| 12" 14TPI | DMS02-0314 | \$2.41 |
| 12" 18TPI | DMS02-0318 | \$2.41 |
| 12" 24TPI | DMS02-0324 | \$2.41 |
| 12" 32TPI | DMS02-0332 | \$2.41 |



JIGSAW BLADES - BOSCH STYLE

| | | |
|-------------------------|------------|--------|
| 14TPI (METAL >1/8") | DMS03-8214 | \$3.28 |
| 18TPI (METAL >18GA) | DMS03-8218 | \$3.28 |
| 24TPI (THIN METAL) | DMS03-8224 | \$3.28 |
| 10TPI (WOOD, PLY, COMP) | DMS03-8510 | \$3.28 |



JIGSAW BLADES - UNIVERSAL STYLE

| | | |
|-------|------------|--------|
| 14TPI | DMS03-9214 | \$3.28 |
| 18TPI | DMS03-9218 | \$3.28 |
| 24TPI | DMS03-9224 | \$3.28 |



FORSTNER DRILL BITS

DMS70 Series

| Size | Part Number | List Price |
|--------|-------------|------------|
| 1/4" | DMS70-0010 | \$7.08 |
| 3/8" | DMS70-0020 | \$8.93 |
| 1/2" | DMS70-0030 | \$9.56 |
| 5/8" | DMS70-0040 | \$11.23 |
| 3/4" | DMS70-0050 | \$12.39 |
| 7/8" | DMS70-0060 | \$13.19 |
| 1" | DMS70-0070 | \$14.69 |
| 1-1/8" | DMS70-0080 | \$15.90 |
| 1-1/4" | DMS70-0090 | \$17.40 |
| 1-3/8" | DMS70-0100 | \$22.46 |
| 1-1/2" | DMS70-0110 | \$23.62 |
| 1-5/8" | DMS70-0120 | \$27.08 |
| 1-3/4" | DMS70-0130 | \$32.89 |
| 1-7/8" | DMS70-0140 | \$33.30 |
| 2" | DMS70-0150 | \$36.41 |
| 2-1/8" | DMS70-0160 | \$41.82 |



INSERT BITS

INS Series

Economy insert and power bits.

PHILLIPS

INS Series

| Size | O.A.L. | Part Number | Ref # | List Price |
|----------------------------------|--------|-------------|--------|------------|
| INSERT BITS W/ 1/4" SHANK | | | | |
| P1 | 1" | INS27020 | 440-1X | \$0.50 |
| P2 | 1" | INS27021 | 440-2X | \$0.50 |
| P3 | 1" | INS27022 | 440-3X | \$0.50 |
| P4 | 1" | INS440-4 | 440-4X | \$1.08 |

REDUCED INSERT BITS

W/ 1/4" HEX SHANK

| | | | | |
|----|----|----------|--------|--------|
| P1 | 1" | INS27035 | 446-1X | \$0.50 |
| P2 | 1" | INS27036 | 446-2X | \$0.50 |

INSERT BITS W/ 5/16" SHANK

| | | | | |
|----|--------|----------|--------|--------|
| P1 | 1-1/4" | INS27205 | 480-1X | \$1.58 |
| P2 | 1-1/4" | INS27206 | 480-2X | \$1.58 |
| P3 | 1-1/4" | INS27207 | 480-3X | \$1.58 |
| P4 | 1-1/4" | INS27208 | 480-4X | \$1.58 |

POWER BITS W/ 1/4" HEX SHANK

| | | | | |
|----|----------|----------|--------|--------|
| P1 | 1-15/16" | INS27360 | 491X | \$1.16 |
| P2 | 1-15/16" | INS27361 | 492X | \$1.33 |
| P3 | 1-15/16" | INS27362 | 493X | \$1.33 |
| P1 | 2-3/4" | INS27363 | 491-AX | \$1.48 |
| P2 | 2-3/4" | INS27364 | 492-AX | \$1.48 |
| P3 | 2-3/4" | INS27365 | 493-AX | \$1.48 |
| P1 | 3-1/2" | INS27366 | 491-BX | \$2.53 |
| P2 | 3-1/2" | INS27367 | 492-BX | \$2.37 |
| P3 | 3-1/2" | INS27368 | 493-BX | \$2.95 |
| P1 | 6" | INS45794 | 491-CX | \$4.47 |
| P2 | 6" | INS45625 | 492-CX | \$4.47 |
| P3 | 6" | INS45626 | 493-CX | \$4.47 |

TORX

INS Series

| Size | O.A.L. | Part Number | Ref # | List Price |
|---|--------|-------------|------------|------------|
| TORX INSERT BITS W/ 1/4" HEX SHANK | | | | |
| T8 | 1" | INS37153 | 440-TX-08X | \$0.76 |
| T10 | 1" | INS37157 | 440-TX-10X | \$0.76 |
| T15 | 1" | INS37159 | 440-TX-15X | \$0.76 |
| T20 | 1" | INS37161 | 440-TX-20X | \$0.76 |
| T25 | 1" | INS37163 | 440-TX-25X | \$0.76 |
| T27 | 1" | INS37165 | 440-TX-27X | \$0.76 |
| T30 | 1" | INS37167 | 440-TX-30X | \$0.76 |
| T40 | 1" | INS37169 | 440-TX-40X | \$0.76 |

TORX INSERT BITS W/ 5/16" HEX SHANK

| | | | | |
|-----|--------|----------|------------|--------|
| T30 | 1-1/4" | INS37171 | 480-TX-30X | \$2.54 |
| T40 | 1-1/4" | INS37173 | 480-TX-40X | \$2.54 |
| T45 | 1-1/4" | INS37175 | 480-TX-45X | \$2.54 |
| T50 | 1-1/4" | INS37177 | 480-TX-50X | \$2.54 |
| T55 | 1-1/4" | INS38333 | 480-TX-55X | \$3.34 |

SLOTTED

INS Series

| Size | O.A.L. | Part Number | Ref # | List Price |
|------|--------|-------------|-------|------------|
|------|--------|-------------|-------|------------|

SLOTTED INSERT BITS

W/ 1/4" HEX SHANK

| | | | | |
|--------|----|----------|--------|--------|
| #4-5 | 1" | INS39534 | 445-1X | \$0.66 |
| #6-8 | 1" | INS39536 | 445-2X | \$0.66 |
| #8-10 | 1" | INS39537 | 445-3X | \$0.66 |
| #10-12 | 1" | INS39538 | 445-4X | \$1.25 |

SLOTTED POWER BITS

W/ 1/4" HEX SHANK

| | | | | |
|-------|----------|----------|--------|--------|
| #4-5 | 1-15/16" | INS27463 | 320-1X | \$1.16 |
| #6-8 | 1-15/16" | INS27465 | 320-3X | \$1.16 |
| #8-12 | 1-15/16" | INS27466 | 320-4X | \$1.16 |

SQUARE

INS Series

| Size | O.A.L. | Part Number | Ref # | List Price |
|------|--------|-------------|-------|------------|
|------|--------|-------------|-------|------------|

SQUARE DRIVE INSERT BITS

W/ 1/4" HEX SHANK

| | | | | |
|----|----|----------|--------|--------|
| R1 | 1" | INS29049 | 950-1X | \$0.66 |
| R2 | 1" | INS29050 | 950-2X | \$0.66 |
| R3 | 1" | INS29051 | 950-3X | \$0.66 |

SQUARE DRIVE POWER BITS

W/ 1/4" HEX SHANK

| | | | | |
|----|----------|----------|--------|--------|
| R1 | 1-15/16" | INS29052 | 954-1X | \$1.03 |
| R2 | 1-15/16" | INS29053 | 954-2X | \$1.03 |
| R3 | 1-15/16" | INS29054 | 954-3X | \$1.03 |

TORX

INS Series

| Size | O.A.L. | Part Number | Ref # | List Price |
|------|--------|-------------|-------|------------|
|------|--------|-------------|-------|------------|

TORX POWER BITS

W/ 1/4" HEX SHANK

| | | | | |
|-----|----------|----------|----------|--------|
| T10 | 1-15/16" | INS37715 | 49-TX-10 | \$1.17 |
| T15 | 1-15/16" | INS37717 | 49-TX-15 | \$1.17 |
| T20 | 1-15/16" | INS37719 | 49-TX-20 | \$1.17 |
| T25 | 1-15/16" | INS37721 | 49-TX-25 | \$1.17 |
| T27 | 1-15/16" | INS37723 | 49-TX-27 | \$1.17 |
| T30 | 1-15/16" | INS37725 | 49-TX-30 | \$1.17 |

TAMPER RESISTANT TORX INSERT BITS

| | | | | |
|------|----|------------|-------------|--------|
| T-10 | 1" | INS05-TT10 | 440-TX-10-H | \$1.06 |
| T-15 | 1" | INS05-TT15 | 440-TX-15-H | \$1.06 |
| T-20 | 1" | INS05-TT20 | 440-TX-20-H | \$1.06 |
| T-25 | 1" | INS05-TT25 | 440-TX-25-H | \$1.06 |
| T-27 | 1" | INS05-TT27 | 440-TX-27-H | \$1.06 |
| T-30 | 1" | INS05-TT30 | 440-TX-30-H | \$1.06 |

* APEX brand also available *

INS Series

| Size | O.A.L. | Shank | Part Number | Ref# | List Price |
|-----------------------------|--------|-------|-------------|---------|------------|
| TORQ-SET INSERT BITS | | | | | |
| #0 | 1" | 1/4" | INS212-0 | 212-0 | \$5.30 |
| #1 | 1" | 1/4" | INS212-1 | 212-1 | \$5.30 |
| #2 | 1" | 1/4" | INS212-2 | 212-2 | \$5.30 |
| #3 | 1" | 1/4" | INS212-3 | 212-3 | \$5.30 |
| #4 | 1" | 1/4" | INS212-4 | 212-4 | \$5.30 |
| #5 | 1" | 1/4" | INS212-5 | 212-5 | \$5.30 |
| #6 | 1" | 1/4" | INS212-6 | 212-6 | \$5.30 |
| #8 | 1" | 1/4" | INS212-8 | 212-8 | \$5.30 |
| #8 | 1-1/4" | 5/16" | INS212-8A | 212-8A | \$12.33 |
| #10 | 1" | 1/4" | INS212-10 | 212-10 | \$5.30 |
| #10 | 1-1/4" | 5/16" | INS212-10A | 212-10A | \$12.33 |
| 1/4" | 1" | 1/4" | INS212-1/4 | 212-1/4 | \$5.30 |



TRI WING

INS Series

| Size | O.A.L. | Part Number | Ref# | List Price |
|-------------------------------------|--------|-------------|-------|------------|
| INSERT BIT W/ 1/4" HEX SHANK | | | | |
| #0 | 1" | INSTWD-0 | TWD-0 | \$4.30 |
| #1 | 1" | INSTWD-1 | TWD-1 | \$4.30 |
| #2 | 1" | INSTWD-2 | TWD-2 | \$4.30 |
| #3 | 1" | INSTWD-3 | TWD-3 | \$4.30 |
| #4 | 1" | INSTWD-4 | TWD-4 | \$4.30 |
| #5 | 1" | INSTWD-5 | TWD-5 | \$4.30 |
| #6 | 1" | INSTWD-6 | TWD-6 | \$5.80 |
| #7 | 1" | INSTWD-7 | TWD-7 | \$5.80 |
| #8 | 1" | INSTWD-8 | TWD-8 | \$5.80 |



POWER BIT W/ 1/4" HEX SHANK

| | | | | |
|----|--------|---------|------|--------|
| #2 | 1-1/4" | INSTW-2 | TW-2 | \$4.14 |
| #3 | 1-1/4" | INSTW-3 | TW-3 | \$4.14 |
| #4 | 1-1/4" | INSTW-4 | TW-4 | \$4.14 |
| #5 | 1-1/4" | INSTW-5 | TW-5 | \$4.14 |
| #6 | 1-1/4" | INSTW-6 | TW-6 | \$4.47 |



MAGNETIC NUT SETTERS

INS Series

| Size | O.A.L. | Part Number | Ref# | List Price |
|-------|---------|--------------|--------|------------|
| 1/4" | 1-3/4" | INSNS14-134 | MDA-08 | \$4.47 |
| 1/4" | 2-9/16" | INSNS14-2916 | MDB-08 | \$4.78 |
| 1/4" | 6" | INSNS14-6 | -- | \$11.66 |
| 5/16" | 1-3/4" | INSNS56-134 | MDA-10 | \$4.47 |
| 5/16" | 2-9/16" | INSNS56-2916 | MDB-10 | \$4.78 |
| 5/16" | 6" | INSNS56-6 | -- | \$11.66 |
| 3/8" | 1-3/4" | INSNS38-134 | MDA-12 | \$4.47 |
| 3/8" | 2-9/16" | INSNS38-2916 | MDB-12 | \$4.78 |
| 3/8" | 6" | INSNS38-6 | -- | \$11.66 |
| 7/16" | 1-3/4" | INSNS76-134 | MDA-14 | \$6.53 |
| 7/16" | 2-9/16" | INSNS76-2916 | MDB-14 | \$7.09 |



MAGNETIC BIT HOLDERS

| Description | O.A.L. | Part Number | List Price |
|---|--------|-------------|------------|
| STAINLESS STEEL | 2-3/8" | INSBH-238 | \$6.72 |
| STAINLESS STEEL W/ CAP | 3" | INSBH-300C | \$8.26 |
| STAINLESS STEEL W/ RING | 3" | INSBH-300S | \$9.33 |
| STAINLESS QUICK CHANGE BIT HOLDER-PUSH TYPE | 3" | INSBH-300QC | \$12.72 |
| STAINLESS STEEL W/ RING | 6" | INSBH-600S | \$13.99 |



INS Series

| Size | O.A.L. | Shank | Part Number | Ref# | List Price |
|----------------------------|--------|-------|--------------|-----------|------------|
| POWER TORQ-SET BITS | | | | | |
| #0 | 1-1/4" | 1/4" | INS170-0 | -- | \$4.30 |
| #1 | 1-1/4" | 1/4" | INS170-1 | 170-1 | \$4.30 |
| #2 | 1-1/4" | 1/4" | INS170-2 | 170-2 | \$4.30 |
| #3 | 1-1/4" | 1/4" | INS170-3 | 170-3 | \$4.30 |
| #4 | 1-1/4" | 1/4" | INS170-4 | 170-4 | \$4.30 |
| #5 | 1-1/4" | 1/4" | INS170-5 | 170-5 | \$4.30 |
| #6 | 1-1/4" | 1/4" | INS170-6 | 170-6 | \$4.30 |
| #8 | 1-1/4" | 1/4" | INS170-8 | 170-8 | \$4.30 |
| #10 | 1-1/4" | 1/4" | INS170-10 | 170-10 | \$4.30 |
| 1/4" | 1-1/4" | 1/4" | INS170-1/4B | 170-1/4B | \$6.95 |
| 5/16" | 1-1/4" | 5/16" | INS170-5/16A | 170-5/16A | \$8.34 |
| 5/16" | 1-1/4" | 1/4" | INS170-5/16B | 170-5/16B | \$6.95 |
| 3/8" | 1-1/4" | 1/4" | INS170-3/8B | 170-3/8B | \$6.95 |



MISCELLANEOUS

INS Series

| Size | O.A.L. | Part Number | Ref# | List Price |
|-----------------------|--------|-------------|-------|------------|
| HI TORQUE BITS | | | | |
| #1 | 1" | INSHTS-1 | HTS-1 | \$21.79 |
| #2 | 1" | INSHTS-2 | HTS-2 | \$21.79 |
| #3 | 1" | INSHTS-3 | HTS-3 | \$21.79 |
| #4 | 1" | INSHTS-4 | HTS-4 | \$21.79 |
| #5 | 1" | INSHTS-5 | -- | \$39.75 |
| #6 | 1" | INSHTS-6 | -- | \$39.75 |



SPANNER INSERT BITS W/ 1/4" HEX SHANK

| | | | | |
|-----|----|------------|----|--------|
| #6 | 1" | INS05-SP6 | -- | \$1.48 |
| #8 | 1" | INS05-SP8 | -- | \$1.48 |
| #10 | 1" | INS05-SP10 | -- | \$1.48 |



BNAE INSERT BITS W/ 1/4" HEX SHANK

| | | | | |
|-----|--------|-----------|----------|--------|
| 4MM | 1-1/8" | INSBNAE-4 | BNAE-4MM | \$8.84 |
| 5MM | 1-1/8" | INSBNAE-5 | BNAE-5MM | \$8.84 |
| 6MM | 1-1/8" | INSBNAE-6 | BNAE-6MM | \$8.84 |
| 8MM | 1-1/8" | INSBNAE-8 | BNAE-8MM | \$8.84 |



SOCKET ADAPTER 1/4" HEX SHANK

| | | | | |
|------|----|-----------|----|--------|
| 3/8" | 3" | INS38SA-3 | -- | \$5.83 |
|------|----|-----------|----|--------|



INDEX

A

| | |
|-------------------------|-------|
| Abrasives - Handy Rolls | 126 |
| Aircraft Taper Routers | 96 |
| Annular Cutters | 83-84 |
| Arbors | |
| Drill Chuck | 110 |
| Shell Reamer | 108 |
| Auger Bits | 131 |

B

| | |
|------------------------|-----------|
| Brad Point | 132 |
| Bull Nose Live Centers | 111 |
| Bur Dispenser | 129 |
| Burs | 123 - 126 |

C

| | |
|-------------------------------|-----------|
| Carbide | |
| Burs | 123 - 126 |
| Drills | 25 - 26 |
| Endmills | 120 - 122 |
| Centers | |
| Bull Nose Live | 111 |
| Dead | 111 |
| Live | 111 |
| Counterbores | |
| Aircraft (1/4 Shank) | 87 |
| Capscrew | 87 |
| Pilots | 88 |
| Solid | 86 |
| Straight Shank | 86 |
| Taper Shank | 87 |
| Countersinks | |
| 3 Flute (Center Reamers) | 90 |
| 4 Flute (Machine) | 90 |
| 6 Flute (Chatterless) | 91 |
| Combined Drill & Countersinks | 93 |
| Single Flute | 90 |
| Threaded Shank (Stop) | 92 |
| Weldon | 89 |
| Cutoff Blades | 130 |
| Cutters | |
| Annular | 83-84 |
| Dovetail | 109 |
| Hollow | 92 |
| T-Slot | 109 |
| Woodruff Keyseat - Shank Type | 109 |

D

| | |
|--------------|-----|
| Dead Centers | 111 |
| Die Stocks | 81 |

Dies

| | |
|------------------------------|------------|
| Hex Dies | |
| Carbon Steel | |
| 8 Pitch | 74 |
| Left Hand | 73 |
| Machine & Fractional Sizes | 72 |
| Metric | 73 |
| Pipe - NPT | 72 |
| High Speed Steel | 72 |
| Round Dies | |
| High Speed Adjustable | |
| Left Hand | 80 |
| Machine & Fractional | 75 - 77 |
| Metric | 77 - 79 |
| Pipe - NPT & NPS | 81 |
| Square Dies - Carbon Steel | 71 |
| Dispensers and Indexes | 128 - 129 |
| Drift Keys | 110 |
| Drill Chuck Arbors | 110 |
| Drill Dispensers | 128 - 129 |
| Drill Gauges | 129 |
| Drill Indexes | 128 - 129 |
| Drills | |
| Adapter - Threaded Shank | 95, 96 |
| Aircraft Extension | |
| 6 O.A.L. | 33 - 34 |
| 12 O.A.L. | 35 - 36 |
| Aircraft Taper Router | 96 |
| Auger | 131 |
| Brad Point | 132 |
| Carbide | 25 - 26 |
| Carbide Tipped | 27 |
| Combined Drill & Countersink | 93 |
| Combined Drill & Tap | 70 |
| Concrete Screw Anchor | 39 |
| Diamond Segment | 23 |
| Die Drills | 26 |
| Double End | 24 |
| Extra Length | |
| Reduced Shank | 50 |
| Straight Shank | 48 - 50 |
| Glass & Tile | 40 |
| Jobber Length | |
| Black & Gold Contractor | 6 |
| Blanks | 19 |
| Carbide Tipped | 27 |
| Cobalt | 9 - 11, 16 |
| Forstner | 132 |
| Killer Force Drills (KFD) | 6 - 8 |
| Left Hand | 18 - 19 |
| Metric | 7, 15 - 16 |
| Polished | 2 - 5 |
| Sets | 51 - 56 |
| Split Point | 6 - 8 |
| Surface Treated - HS | 2 - 5 |
| Tin-Coated | 17 |

Masonry - Carbide Tipped

| | |
|-----------------------|---------|
| Concrete Screw Anchor | 39 |
| Round Shank | 37 |
| SDS Plus | 38 |
| Mechanics Length-KFD | 24 |
| Reduced Shank | |
| 1/2 Shank | 29 - 32 |
| 1/4 Shank | 28 |
| 3/4 Shank | 30 |
| 3/8 Shank | 28 |
| Screw Machine Length | |
| Cobalt | 20 - 22 |
| HS Heavy Duty | 20 - 22 |
| Sets | 51 - 56 |
| Spade | 131 |
| Step | 41 |
| Taper Length | |
| Carbide Tipped | 46 - 47 |
| Cobalt | 46 - 47 |
| HS | 46 - 47 |
| Taper Routers | 96 |
| Taper Shank | |
| Carbide Tipped | 45 |
| Cobalt | 45 |
| HS | 42 - 44 |
| Metric | 44 |
| Threaded Shank | 95 - 96 |

E

| | |
|-------------------|----------------|
| End Mills | |
| Carbide | 120 - 122 |
| Cobalt | 117 |
| Corner Rounding | 122 |
| Double End | |
| High Speed | |
| 2 Flute | 112 - 113, 115 |
| 3/16 Shank | 119 |
| 4 Flute | 112 - 114 |
| Metric | 118 |
| Roughing | 117 |
| Shell | 122 |
| Single End | |
| High Speed | |
| 2 Flute | 112 - 113, 115 |
| 4 Flute | 112, 114 - 116 |
| Metric | 118 |
| Extension Sockets | 111 |
| EZ Outs | 94 |

F

| | |
|---------------------|-----|
| Files | 127 |
| Forstner Drill Bits | 132 |

INDEX

H

| | |
|------------------------|---------|
| Hand Tap and Drill Kit | 62 - 63 |
| Handy Rolls | 126 |
| Hex Shank Drill Bit | 13 |
| Hole Cutters | 82 |
| Hole Saws | 85 |
| Hollow Cutters | 92 |

I

| | |
|-------------|-----------|
| Indexes | 128 - 129 |
| Insert Bits | 133 - 134 |

L

| | |
|--------------|-----|
| Live Centers | 111 |
|--------------|-----|

M

| | |
|----------------|---------|
| Masonry Drills | 37 - 39 |
|----------------|---------|

P

| | |
|--------------------------|----|
| Pilots for Counterbores | 88 |
| Point of Purchase Drills | 14 |

Q

| | |
|--------------------------------|----|
| Quick Change Drill Bits | 13 |
| Quick Change Glass/Tile Drills | 40 |
| Quick Change Step Drills | 41 |

R

| | |
|---------------------|---------|
| Reamers | |
| Adjustable | 107 |
| Bridge | |
| Hex Shank | 105 |
| Straight Shank | 104 |
| Taper Shank | 104 |
| Car | 106 |
| Carbide | 109 |
| Chucking | |
| Decimal | 100 |
| Dowel Pin | 100 |
| Metric | 99 |
| Straight Shank | 97 - 99 |
| Taper Shank | 99 |
| Cobalt | 100 |
| Expansion | |
| Hand | 103 |
| Machine | 101 |
| Hand | 102 |
| Shell | 108 |
| Shell Reamer Arbors | 108 |
| Taper Pin | 107 |
| Taper Pipe | 106 |

S

| | |
|------------------|-----|
| Saws | |
| Hole | 85 |
| Jig | 119 |
| Reciprocating | 132 |
| Screw Extractors | 94 |
| Self Feed Bits | 131 |
| Sleeves | 110 |
| Spade Bits | 131 |
| Step Drills | 41 |
| Stepped Drills | 12 |

T

| | |
|-----------------------------|-------------|
| Tap & Die Sets | 70 |
| Tap and Drill Sets | 62 - 63 |
| Tap Dispensers | 129 |
| Tap Wrenches | 70 |
| Taper Routers | 96 |
| Taps | |
| Acme | 71 |
| Combined Tap & Drill | 70 |
| Extension Taps | 67 |
| Hand Taps | |
| Carbon Steel | 66 |
| High Speed Steel | |
| 8 Pitch | 59 |
| Left Hand | 67 |
| Machine & Fractional | 57 - 59, 65 |
| Metric | 60 - 61 |
| NPS Taps | 68 |
| NPT Taps | 68-69 |
| Nut Taps | 67 |
| Pipe Taps | 68-69 |
| Pipe Tap and Drill Kit | 69 |
| Pulley | 67 |
| Spiral Pointed Taps | 64 - 65 |
| Threaded Shank Countersinks | 92 |
| Threaded Shank Drills | 95 - 96 |
| Tool Bits | 130 |

W

| | |
|---------------------|-----------|
| Weldon Countersinks | 89 |
| Wood Working | 131 - 132 |
| Wrenches, Tap | 70 |

Decimal Equivalents and Tap Sizes of Fraction, Number, Letter and Metric Sizes

Recommended tap drill sizes for approximately 75% depth of thread

| SIZES | DECIMAL INCHES | TAP SIZES To be used with drills as indicated | SIZES | DECIMAL INCHES | TAP SIZES To be used with drills as indicated | SIZES | DECIMAL INCHES | TAP SIZES To be used with drills as indicated | SIZES | DECIMAL INCHES | TAP SIZES To be used with drills as indicated | SIZES | DECIMAL INCHES | TAP SIZES To be used with drills as indicated |
|--------|----------------|---|--------|----------------|---|--------|----------------|---|--------|----------------|---|---------|----------------|---|
| 97 | .0059 | | 58 | .0420 | | 27 | .1440 | | H | .2660 | | 17/32 | .5312 | 5/8-11 |
| .15mm | .0059 | | 57 | .0430 | | 3.7mm | .1457 | | 6.8mm | .2677 | | 13.5mm | .5315 | |
| 96 | .0063 | | 1.1mm | .0433 | | 26 | .1470 | 3/16-24NS | 6.9mm | .2717 | | 35/64 | .5469 | |
| .16mm | .0063 | | 1.15mm | .0453 | | 3.75mm | .1476 | m4.5x0.75 | | .2720 | | 14mm | .5512 | m16x2 |
| 95 | .0067 | | 56 | .0465 | | 25 | .1495 | #10-24 | 7mm | .2756 | 5/16-24NF | 9/16 | .5625 | |
| .17mm | .0067 | 3/64 | .0469 | #0-80 | 3.8mm | .1496 | | J | .2770 | | m8x1 | 14.5mm | .5709 | m16x1.50 |
| 94 | .0071 | | 1.2mm | .0472 | | 24 | .1520 | | 7.1mm | .2795 | | 37/64 | .5781 | 3/8-18NS, 5/8-18NF |
| .18mm | .0071 | | 1.25mm | .0492 | m1.6x0.35 | 3.9mm | .1535 | | K | .2810 | | 15mm | .5906 | |
| 93 | .0075 | | 1.3mm | .0512 | | 23 | .1540 | | 9/32 | .2812 | 5/16-32NS | 19/32 | .5938 | 3/8-18NS PIPE |
| .19mm | .0075 | | 55 | .0520 | 5/32 | .1562 | | 7.2mm | .2835 | | | 39/64 | .6094 | |
| 92 | .0079 | | 1.35mm | .0531 | | 22 | .1570 | 3/16-32NS | 7.25mm | .2854 | | 15.5mm | .6102 | m18x2.5 |
| .2mm | .0079 | | 54 | .0550 | | 4mm | .1575 | | 7.3mm | .2874 | | 5/8 | .6250 | 11/16-16NS |
| 91 | .0083 | | 1.4mm | .0551 | | 21 | .1590 | #10-32 | L | .2900 | | 16mm | .6299 | m18x2.0 |
| .21mm | .0083 | | 1.45mm | .0571 | m1.8x0.35 | 20 | .1610 | | 7.4mm | .2913 | | 41/64 | .6406 | |
| 90 | .0087 | | 1.5mm | .0591 | | 4.1mm | .1614 | | M | .2950 | | 16.5mm | .6496 | |
| .22mm | .0087 | | 53 | .0595 | #1-64, 72 | 4.2mm | .1654 | m5x0.8 | 7.5mm | .2953 | | 21/32 | .6562 | 3/4-10NC |
| 89 | .0091 | | 1.55mm | .0610 | | 19 | .1660 | | 19/64 | .2969 | | 17mm | .6693 | |
| .23mm | .0091 | 1/16 | .0625 | | 4.25mm | .1673 | | 7.6mm | .2992 | | 43/64 | .6719 | | |
| .24mm | .0094 | | 1.6mm | .0630 | m2x0.4 | 4.3mm | .1693 | | N | .3020 | | 11/16 | .6875 | 3/4-16NF |
| 88 | .0095 | | 52 | .0635 | | 18 | .1695 | | 7.7mm | .3031 | | 17.5mm | .6890 | m20x2.5 |
| .25mm | .0098 | | 1.65mm | .0650 | | 11/64 | .1719 | | 7.75mm | .3051 | m9x1.25 | 45/64 | .7031 | |
| 87 | .0100 | | 1.7mm | .0669 | | 17 | .1730 | | 7.8mm | .3071 | | 18mm | .7087 | m20x2.0 |
| .26mm | .0102 | | 51 | .0670 | #2-56 | 4.4mm | .1732 | | 7.9mm | .3110 | | 23/32 | .7188 | 1/2-14NPT PIPE |
| 86 | .0105 | | 1.75mm | .0689 | m2.2x0.45 | 16 | .1770 | #12-24 | 5/16 | .3125 | 3/8-16NC | 18.5mm | .7283 | m20x1.5 |
| .27mm | .0106 | | 50 | .0700 | #2-64 | 4.5mm | .1772 | | 8mm | .3150 | | 47/64 | .7344 | 1/2-14NS PIPE |
| 85 | .0110 | | 1.8mm | .0709 | | 15 | .1800 | | O | .3160 | | 19mm | .7480 | |
| .28mm | .0110 | | 1.85mm | .0728 | | 4.6mm | .1811 | | 8.1mm | .3189 | | 3/4 | .7500 | |
| .29mm | .0114 | | 49 | .0730 | | 14 | .1820 | #12-28 | 8.2mm | .3228 | | 49/64 | .7656 | 7/8-9NC |
| 84 | .0115 | | 1.9mm | .0748 | m2.3x0.4 | 13 | .1850 | | P | .3230 | | 19.5mm | .7677 | m22x2.5 |
| .3mm | .0118 | | 48 | .0760 | | 4.7mm | .1850 | | 8.25mm | .3248 | | 25/32 | .7812 | |
| 83 | .0120 | | 1.95mm | .0768 | | 4.75mm | .1870 | | 8.3mm | .3268 | | 20mm | .7874 | m22x2.0 |
| 82 | .0125 | 5/64 | .0781 | | 3/16 | .1875 | | 8.4mm | .3307 | | 21/64 | .7969 | | |
| .32mm | .0126 | | 47 | .0785 | #3-48 | 4.8mm | .1890 | | 8.4mm | .3307 | | 20.5mm | .8071 | m22x1.5 |
| 81 | .0130 | | 2mm | .0787 | | 12 | .1890 | 7/32-32NS | Q | .3320 | 3/8-24NF | 13/16 | .8125 | 7/8-14NF |
| .34mm | .0134 | | 2.05mm | .0807 | m2.5x0.45 | 11 | .1910 | | 8.5mm | .3346 | m10x1.5 | 21mm | .8268 | m24x3 |
| 80 | .0135 | | 46 | .0810 | | 4.9mm | .1929 | | 8.6mm | .3386 | | 53/64 | .8281 | |
| .35mm | .0138 | | 45 | .0820 | #3-56 | 10 | .1935 | | R | .3390 | 1/8-27 NPT PIPE | 27/32 | .8438 | |
| .36mm | .0142 | | 2.1mm | .0827 | | 9 | .1960 | | 8.7mm | .3425 | | 21.5mm | .8465 | |
| 79 | .0145 | | 2.15mm | .0846 | m2.6x0.45 | 5mm | .1969 | m6x1 | 11/32 | .3438 | | 55/64 | .8594 | |
| .38mm | .0150 | | 44 | .0860 | #4-36 | 8 | .1990 | | 8.75mm | .3445 | m10x1.25 | 22mm | .8661 | m24x2 |
| 1/64 | .0156 | | 2.2mm | .0866 | | 5.1mm | .2008 | | 8.8mm | .3465 | | 7/8 | .8750 | 1-8NC |
| .4mm | .0157 | | 2.25mm | .0886 | | 7 | .2010 | 1/4-20 | S | .3480 | 1/8-27 NPS PIPE | 22.25mm | .8760 | |
| 78 | .0160 | | 43 | .0890 | #4-40 | 13/64 | .2031 | | 8.9mm | .3504 | | 22.5mm | .8858 | m24x1.50 |
| .42mm | .0165 | | 2.3mm | .0906 | | 6 | .2040 | | 9mm | .3543 | m10.x1.00 | 57/64 | .8906 | |
| .44mm | .0173 | | 2.35mm | .0925 | | 5.2mm | .2047 | | T | .3580 | | 23mm | .9055 | |
| .45mm | .0177 | | 42 | .0935 | #4-48 | 5 | .2055 | | 9.1mm | .3583 | | 29/32 | .9062 | |
| 77 | .0180 | 3/32 | .0938 | | 5.25mm | .2067 | m6x0.75 | | 23/64 | .3594 | | 59/64 | .9219 | 3/4-14NPT PIPE |
| .46mm | .0181 | | 2.4mm | .0945 | | 5.3mm | .2087 | | 9.2mm | .3622 | | 23.5mm | .9252 | |
| .48mm | .0189 | | 41 | .0960 | | 4 | .2090 | 1/4-24 | 9.25mm | .3642 | | 15/16 | .9375 | 3/4-14NC, 1-14NF |
| .5mm | .0197 | | 2.45mm | .0965 | | 5.4mm | .2126 | | 9.3mm | .3661 | | 24mm | .9449 | m27x3 |
| 76 | .0200 | | 40 | .0980 | | 3 | .2130 | 1/4-28 | U | .3680 | 7/16-14NC | 61/64 | .9531 | |
| .75 | .0210 | | 2.5mm | .0984 | m3x0.5 | 5.5mm | .2165 | | 9.4mm | .3701 | | 24.5mm | .9646 | |
| .55mm | .0217 | | 39 | .0995 | | 7/32 | .2188 | | 9.5mm | .3740 | m11x1.5 | 31/32 | .9688 | |
| 74 | .0225 | | 38 | .1015 | #5-40 | 5.6mm | .2205 | | 3/8 | .3750 | | 25mm | .9843 | m27x2 |
| .6mm | .0236 | | 2.6mm | .1024 | | 2 | .2210 | | V | .3770 | | 63/64 | .9844 | 1-1/8-7NC |
| 73 | .0240 | | 37 | .1040 | #5-44 | 5.7mm | .2244 | | 9.6mm | .3780 | | 1 | 1.0000 | |
| .72 | .0250 | | 2.7mm | .1063 | | 5.75mm | .2264 | | 9.7mm | .3819 | | 25.5mm | 1.0039 | |
| .65mm | .0256 | | 36 | .1065 | #6-32 | 1 | .2280 | | 9.75mm | .3839 | | 1-1/64 | 1.0156 | |
| 71 | .0260 | | 2.75mm | .1083 | | 5.8mm | .2283 | | 9.8mm | .3858 | | 26mm | 1.0236 | |
| .7mm | .0276 | | 7/64 | .1094 | | 5.9mm | .2323 | | W | .3860 | | 1-1/32 | 1.0312 | |
| 70 | .0280 | | 35 | .1100 | | A | .2340 | | 9.9mm | .3898 | | 26.5mm | 1.0433 | m30x3.5 |
| .69 | .0292 | | 2.8mm | .1102 | | 15/64 | .2344 | | 25/64 | .3906 | 7/16-20 | 1-3/64 | 1.0469 | 1-1/8-12NF |
| .75mm | .0295 | | 34 | .1110 | | 6mm | .2362 | m7x1 | 10mm | .3937 | m12x1.75 | 1-1/16 | 1.0625 | |
| 68 | .0310 | | 33 | .1130 | #6-40 | B | .2380 | | X | .3970 | | 27mm | 1.0630 | |
| 1/32 | .0312 | | 2.9mm | .1142 | m3.5x0.6 | 6.1mm | .2402 | | Y | .4040 | | 1-5/64 | 1.0781 | |
| .8mm | .0315 | | 32 | .1160 | | C | .2420 | | 13/32 | .4062 | | 27.5mm | 1.0827 | |
| 67 | .0320 | | 3mm | .1181 | | 6.2mm | .2441 | | Z | .4130 | | 1-3/32 | 1.0938 | |
| 66 | .0330 | | 31 | .1200 | | D | .2460 | 1/16-27 NPT PIPE | 10.5mm | .4134 | m12x1.25 | 28mm | 1.1024 | m30x2.0 |
| .85mm | .0335 | | 3.1mm | .1220 | | 6.25mm | .2461 | | 27/64 | .4219 | 1/2-13 | 1-7/64 | 1.1094 | 1-1/4-7NC |
| 65 | .0350 | 1/8 | .1250 | 5/32-32NS | 6.3mm | .2480 | | 11mm | .4331 | | 28.5mm | 1.1220 | | |
| .9mm | .0354 | | 3.2mm | .1260 | | E | .2500 | 1/16-27 NPS PIPE | 7/16 | .4375 | 1/4-18NPT PIPE | 1-1/8 | 1.1250 | |
| 64 | .0360 | | 3.25mm | .1280 | | 1/4 | .2500 | | 11.5mm | .4528 | | 1-9/64 | 1.1406 | |
| 63 | .0370 | | 30 | .1285 | 5/32-36NS | 6.4mm | .2520 | | 29/64 | .4531 | 1/4-18NC, 1/2-20 | 29mm | 1.1417 | |
| .95mm | .0374 | | 3.3mm | .1299 | m4x0.7 | 6.5mm | .2559 | | 15/32 | .4688 | | 1-5/32 | 1.1562 | 1-11/16NPT PIPE |
| 62 | .0380 | | 3.4mm | .1339 | | F | .2570 | 5/16-18NC | 12mm | .4724 | m14x2 | 29.5mm | 1.1614 | |
| 61 | .0390 | | 29 | .1360 | #8-32 | 6.6mm | .2598 | | 31/64 | .4844 | 9/16-12 | 1-11/64 | 1.1719 | 1-1/4-12NF |
| 1mm | .0394 | | 3.5mm | .1378 | | G | .2610 | | 12.5mm | .4921 | m14x1.5 | | | |
| 60 | .0400 | | 28 | .1405 | | 6.7mm | .2638 | | 1/2 | .5000 | | | | |
| 59 | .0410 | | 9/64 | .1406 | | 17/64 | .2656 | | 13mm | .5118 | m14x1.25 | | | |
| 1.05mm | .0413 | | 3.6mm | .1417 | | 6.75mm | .2657 | m8x1.25 | 33/64 | .5156 | 9/16-18 | | | |



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