

Drills

Jobber Length

DRILLS

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General Purpose Styles 150, 150D, 150-TN (150T)

Features/Benefits:

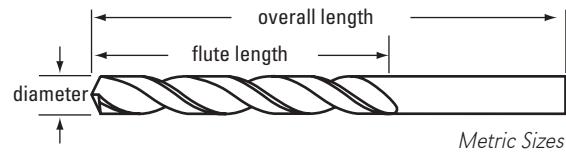
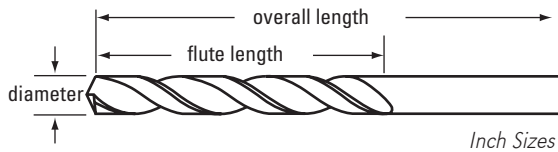
- General-purpose geometry for drilling in a wide range of operating conditions and materials.
- Manufactured from premium high-speed steel.
- 118° point.
- The most popular drill for general-purpose applications.
- Metric sizes are manufactured to DIN 338 specifications.
- Bright, black oxide and titanium nitride (TiN) finishes standard from stock; alternate coatings available as stock modifications.

Application Information:

- carbon steel (TiN, black oxide)
- cast iron (TiN, black oxide)
- non-ferrous materials (bright)

Surface Treatment Information:

- Black oxide surface finish increases wear resistance and adds lubricity, improving chip flow.
- Titanium nitride (TiN) PVD coating adds lubricity and hardness which enhances chip flow, finish hole quality, and drill life.



INCH AND METRIC SIZES

| Drill Diameter | | | | | Overall Length | | Flute Length | | Style 150 | Style 150D | Style 150-TN |
|----------------|----------|--------|---------|------|----------------|-------|--------------|------|-------------|------------|--------------|
| Fract | Wire/Let | Metric | Decimal | mm | Inch | mm | Inch | mm | Black Oxide | Bright* | TiN |
| | 80 | | .0135 | 0.34 | .7500 | 19.05 | .1250 | 3.18 | 44150 | 44350 | 70180 |
| | | 0.35 | .0138 | | .7480 | 19.00 | .1575 | 4.00 | — | 47210 | — |
| 1/64 | 79 | | .0145 | 0.37 | .7500 | 19.05 | .1250 | 3.18 | 44149 | 44349 | 70179 |
| | | 0.40 | .0156 | 0.40 | .7500 | 19.05 | .1875 | 4.76 | 44001 | 44201 | 70201 |
| | 78 | | .0157 | | .7874 | 20.00 | .1969 | 5.00 | — | 47211 | — |
| | | 0.45 | .0160 | 0.41 | .8750 | 22.23 | .1875 | 4.76 | 44148 | 44348 | 70178 |
| | 77 | | .0177 | | .7874 | 20.00 | .1969 | 5.00 | — | 47212 | — |
| | | 0.50 | .0180 | 0.46 | .8750 | 22.23 | .1875 | 4.76 | 44147 | 44347 | 70177 |
| | 76 | | .0197 | | .8661 | 22.00 | .2362 | 6.00 | — | 47213 | — |
| | | 0.55 | .0200 | 0.51 | .8750 | 22.23 | .1875 | 4.76 | 44146 | 44346 | 70176 |
| | 75 | | .0210 | 0.53 | 1.0000 | 25.40 | .2500 | 6.35 | 44145 | 44345 | 70175 |
| | | 0.60 | .0217 | | .9449 | 24.00 | .2756 | 7.00 | — | 47214 | — |
| | 74 | | .0225 | 0.57 | 1.0000 | 25.40 | .2500 | 6.35 | 44144 | 44344 | 70174 |
| | | 0.65 | .0236 | | .9449 | 24.00 | .2756 | 7.00 | — | 47215 | — |
| | 73 | | .0240 | 0.61 | 1.1250 | 28.58 | .3125 | 7.94 | 44143 | 44343 | 70173 |
| | 72 | | .0250 | 0.64 | 1.1250 | 28.58 | .3125 | 7.94 | 44142 | 44342 | 70172 |
| | | 0.65 | .0256 | | 1.0236 | 26.00 | .3150 | 8.00 | — | 47216 | — |

*Bright metric sizes are non-stocked standards (minimum order quantity required).

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Jobber Length

General Purpose (continued) Styles 150, 150D, 150-TN (150T)

INCH AND METRIC SIZES

| Fract | Drill Diameter | | | Overall Length | | Flute Length | | Style 150 | Style 150D | Style 150-TN | |
|-------|----------------|--------|---------|----------------|--------|--------------|--------|-----------|-------------|--------------|-------|
| | Wire/Let | Metric | Decimal | mm | Inch | mm | Inch | mm | Black Oxide | Bright* | TiN |
| 21/64 | | | .3281 | 8.33 | 4.6250 | 117.48 | 3.3125 | 84.14 | 44021 | 44221 | 70221 |
| | | 8.40 | .3307 | | 4.6063 | 117.00 | 2.9528 | 75.00 | 47324 | 45324 | — |
| | Q | | .3320 | 8.43 | 4.7500 | 120.65 | 3.4375 | 87.31 | 44187 | 44387 | 70317 |
| | | 8.50 | .3346 | | 4.6063 | 117.00 | 2.9528 | 75.00 | 47325 | 45325 | 70389 |
| R | | 8.60 | .3386 | | 4.9213 | 125.00 | 3.1890 | 81.00 | 47326 | 45326 | — |
| | | | .3390 | 8.61 | 4.7500 | 120.65 | 3.4375 | 87.31 | 44188 | 44388 | 70318 |
| | | 8.70 | .3425 | | 4.9213 | 125.00 | 3.1890 | 81.00 | 47327 | 45327 | 70390 |
| 11/32 | | | .3438 | 8.73 | 4.7500 | 120.65 | 3.4375 | 87.31 | 44022 | 44222 | 70222 |
| | | 8.80 | .3465 | | 4.9213 | 125.00 | 3.1890 | 81.00 | 47329 | 45329 | — |
| | S | | .3480 | 8.84 | 4.8750 | 123.83 | 3.5000 | 88.90 | 44189 | 44389 | 70319 |
| | | 8.90 | .3504 | | 4.9213 | 125.00 | 3.1890 | 81.00 | 47330 | 45330 | — |
| T | | 9.00 | .3543 | | 4.9213 | 125.00 | 3.1890 | 81.00 | 47331 | 45331 | 70339 |
| | | | .3580 | 9.09 | 4.8750 | 123.83 | 3.5000 | 88.90 | 44190 | 44390 | 70320 |
| | | 9.10 | .3583 | | 4.9213 | 125.00 | 3.1890 | 81.00 | 47332 | 45332 | — |
| 23/64 | | | .3594 | 9.13 | 4.8750 | 123.83 | 3.5000 | 88.90 | 44023 | 44223 | 70223 |
| | | 9.20 | .3622 | | 4.9213 | 125.00 | 3.1890 | 81.00 | 47333 | 45333 | — |
| | | 9.30 | .3661 | | 4.9213 | 125.00 | 3.1890 | 81.00 | 47335 | 45335 | — |
| | U | | .3680 | 9.35 | 5.0000 | 127.00 | 3.6250 | 92.08 | 44191 | 44391 | 70321 |
| | | 9.40 | .3701 | | 4.9213 | 125.00 | 3.1890 | 81.00 | 47336 | 45336 | — |
| 3/8 | | | .3740 | | 4.9213 | 125.00 | 3.1890 | 81.00 | 47337 | 45337 | 70391 |
| | | | .3750 | 9.53 | 5.0000 | 127.00 | 3.6250 | 92.08 | 44024 | 44224 | 70224 |
| | V | | .3770 | 9.58 | 5.0000 | 127.00 | 3.6250 | 92.08 | 44192 | 44392 | 70322 |
| | | 9.60 | .3780 | | 5.2362 | 133.00 | 3.4252 | 87.00 | 47338 | 45338 | — |
| W | | 9.70 | .3819 | | 5.2362 | 133.00 | 3.4252 | 87.00 | 47339 | 45339 | — |
| | | 9.80 | .3858 | | 5.2362 | 133.00 | 3.4252 | 87.00 | 47341 | 45341 | — |
| | | | .3860 | 9.80 | 5.1250 | 130.18 | 3.7500 | 95.25 | 44193 | 44393 | 70323 |
| | | 9.90 | .3898 | | 5.2362 | 133.00 | 3.4252 | 87.00 | 47342 | 45342 | — |
| | 25/64 | | .3906 | 9.92 | 5.1250 | 130.18 | 3.7500 | 95.25 | 44025 | 44225 | 70225 |
| X | | 10.00 | .3937 | | 5.2362 | 133.00 | 3.4252 | 87.00 | 47343 | 45343 | 70340 |
| | | | .3970 | 10.08 | 5.1250 | 130.18 | 3.7500 | 95.25 | 44194 | 44394 | 70324 |
| | | 10.20 | .4016 | | 5.2362 | 133.00 | 3.4252 | 87.00 | 47354 | 45354 | 70392 |
| Y | | | .4040 | 10.26 | 5.2500 | 133.35 | 3.8750 | 98.43 | 44195 | 44395 | 70325 |
| | 13/32 | | .4062 | 10.32 | 5.2500 | 133.35 | 3.8750 | 98.43 | 44026 | 44226 | 70226 |
| Z | | | .4130 | 10.49 | 5.2500 | 133.35 | 3.8750 | 98.43 | 44196 | 44396 | 70326 |
| | | 10.50 | .4134 | | 5.2362 | 133.00 | 3.4252 | 87.00 | 47344 | 45344 | 70393 |
| 27/64 | | | .4219 | 10.72 | 5.3750 | 136.53 | 3.9375 | 100.01 | 44027 | 44227 | 70227 |
| | | 10.80 | .4252 | | 5.5905 | 142.00 | 3.7008 | 94.00 | 47356 | 45356 | — |
| | | 11.00 | .4331 | | 5.5905 | 142.00 | 3.7008 | 94.00 | 47345 | 45345 | 70341 |
| 7/16 | | | .4375 | 11.11 | 5.5000 | 139.70 | 4.0625 | 103.19 | 44028 | 44228 | 70228 |
| | | 11.20 | .4409 | | 5.5905 | 142.00 | 3.7008 | 94.00 | 47357 | 45357 | 70394 |
| | | 11.50 | .4528 | | 5.5905 | 142.00 | 3.7008 | 94.00 | 47346 | 45346 | 70395 |
| 29/64 | | | .4531 | 11.51 | 5.6250 | 142.88 | 4.1875 | 106.36 | 44029 | 44229 | 70229 |
| | | 11.80 | .4646 | | 5.5905 | 142.00 | 3.7008 | 94.00 | 47358 | 45358 | — |
| 15/32 | | | .4688 | 11.91 | 5.7500 | 146.05 | 4.3125 | 109.54 | 44030 | 44230 | 70230 |
| | | 12.00 | .4724 | | 5.9449 | 151.00 | 3.9764 | 101.00 | 47347 | 45347 | 70342 |
| | | 12.20 | .4803 | | 5.9449 | 151.00 | 3.9764 | 101.00 | 47359 | 45359 | 70396 |
| 31/64 | | | .4844 | 12.30 | 5.8750 | 149.23 | 4.3750 | 111.13 | 44031 | 44231 | 70231 |
| | | 12.50 | .4921 | | 5.9449 | 151.00 | 3.9764 | 101.00 | 47348 | 45348 | 70397 |
| 1/2 | | | .5000 | 12.70 | 6.0000 | 152.40 | 4.5000 | 114.30 | 44032 | 44232 | 70232 |
| | | 12.80 | .5039 | | 5.9449 | 151.00 | 3.9764 | 101.00 | 47360 | 45360 | — |

*Bright metric sizes are non-stocked standards (minimum order quantity required).

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