

List # 1836 Cle-Line® Reduced Shank Drill - 1/2" - Surface Treated



Substrate - HSS
 Length - 6"
 Surface Treatment - Black Oxide
 Shank - 1/2" Reduced
 Point - 118°



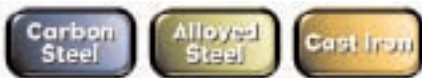
Features:

- HSS engineered for toughness & ideal for portable drilling & maintenance applications
- Black oxide finish for increased wear resistance & improved lubricity reducing chip welding & galling
- 3 driving flats on shank that make them perfect for use with 3-jaw chucks

| Diameter | Decimal Equiv. | Metric Equiv. | Overall Length | Flute Length | Shank Diameter | EDP Number |
|----------|----------------|---------------|----------------|--------------|----------------|------------|
| 1/2 | .5000 | 12.70 | 6 | 3-1/8 | 1/2 | C09973 |
| 33/64 | .5156 | 13.10 | 6 | 3-1/8 | 1/2 | C09974 |
| 17/32 | .5312 | 13.49 | 6 | 3-1/8 | 1/2 | C09975 |
| 35/64 | .5469 | 13.89 | 6 | 3-1/8 | 1/2 | C09976 |
| 9/16 | .5625 | 14.29 | 6 | 3-1/8 | 1/2 | C09977 |
| 37/64 | .5781 | 14.68 | 6 | 3-1/8 | 1/2 | C09978 |
| 19/32 | .5938 | 15.08 | 6 | 3-1/8 | 1/2 | C09979 |
| 39/64 | .6094 | 15.48 | 6 | 3-1/8 | 1/2 | C09980 |
| 5/8 | .6250 | 15.88 | 6 | 3-1/8 | 1/2 | C09981 |
| 41/64 | .6406 | 16.27 | 6 | 3-1/8 | 1/2 | C09982 |
| 21/32 | .6562 | 16.67 | 6 | 3-1/8 | 1/2 | C09983 |
| 43/64 | .6719 | 17.07 | 6 | 3-1/8 | 1/2 | C09984 |
| 11/16 | .6875 | 17.46 | 6 | 3-1/8 | 1/2 | C09985 |
| 45/64 | .7031 | 17.86 | 6 | 3-1/8 | 1/2 | C09986 |
| 23/32 | .7188 | 18.26 | 6 | 3-1/8 | 1/2 | C09987 |

| Diameter | Decimal Equiv. | Metric Equiv. | Overall Length | Flute Length | Shank Diameter | EDP Number |
|----------|----------------|---------------|----------------|--------------|----------------|------------|
| 47/64 | .7344 | 18.65 | 6 | 3-1/8 | 1/2 | C09988 |
| 3/4 | .7500 | 19.05 | 6 | 3-1/8 | 1/2 | C09989 |
| 49/64 | .7656 | 19.45 | 6 | 3 | 1/2 | C09990 |
| 25/32 | .7812 | 19.84 | 6 | 3 | 1/2 | C09991 |
| 13/16 | .8125 | 20.64 | 6 | 3 | 1/2 | C09992 |
| 27/32 | .8438 | 21.43 | 6 | 3 | 1/2 | C09993 |
| 7/8 | .8750 | 22.23 | 6 | 3 | 1/2 | C09994 |
| 29/32 | .9062 | 23.02 | 6 | 3 | 1/2 | C09995 |
| 15/16 | .9375 | 23.81 | 6 | 3 | 1/2 | C09996 |
| 31/32 | .9688 | 24.61 | 6 | 3 | 1/2 | C09997 |
| 1 | 1.0000 | 25.40 | 6 | 3 | 1/2 | C09998 |
| 1-1/16 | 1.0625 | 26.99 | 6 | 3 | 1/2 | C09999 |
| 1-1/8 | 1.1250 | 28.58 | 6 | 3 | 1/2 | C10000 |
| 1-3/16 | 1.1875 | 30.16 | 6 | 3 | 1/2 | C10001 |
| 1-1/4 | 1.2500 | 31.75 | 6 | 3 | 1/2 | C10002 |

List # 1830 Cle-Line® Jobber Length Drill - Bright Finish



Substrate - HSS
 Length - Jobber Length
 Surface Treatment - Bright
 Shank - Straight
 Point - 118°



Features:

- 118° point for general purpose use
- Bright finish, excellent for nonferrous applications & low tensile steels
- HSS ideal for portable drilling & maintenance applications

| Diameter | Decimal Equiv. | Metric Equiv. | Overall Length | Flute Length | EDP Number |
|----------|----------------|---------------|----------------|--------------|------------|
| 60 | .0400 | 1.02 | 1-5/8 | 11/16 | C08330 |
| 59 | .0410 | 1.04 | 1-5/8 | 11/16 | C08331 |
| 58 | .0420 | 1.07 | 1-5/8 | 11/16 | C08332 |
| 57 | .0430 | 1.09 | 1-3/4 | 3/4 | C08333 |
| 56 | .0465 | 1.18 | 1-3/4 | 3/4 | C08334 |
| 55 | .0520 | 1.32 | 1-7/8 | 7/8 | C08335 |
| 54 | .0550 | 1.40 | 1-7/8 | 7/8 | C08336 |
| 53 | .0595 | 1.51 | 1-7/8 | 7/8 | C08337 |
| 1/16 | .0625 | 1.59 | 1-7/8 | 7/8 | C08301 |
| 52 | .0635 | 1.61 | 1-7/8 | 7/8 | C08338 |
| 51 | .0670 | 1.70 | 2 | 1 | C08339 |
| 50 | .0700 | 1.78 | 2 | 1 | C08340 |
| 49 | .0730 | 1.85 | 2 | 1 | C08341 |
| 48 | .0760 | 1.93 | 2 | 1 | C08342 |
| 5/64 | .0781 | 1.98 | 2 | 1 | C08302 |
| 47 | .0785 | 1.99 | 2 | 1 | C08343 |
| 46 | .0810 | 2.06 | 2-1/8 | 1-1/8 | C08344 |
| 45 | .0820 | 2.08 | 2-1/8 | 1-1/8 | C08345 |

| Diameter | Decimal Equiv. | Metric Equiv. | Overall Length | Flute Length | EDP Number |
|----------|----------------|---------------|----------------|--------------|------------|
| 44 | .0860 | 2.18 | 2-1/8 | 1-1/8 | C08346 |
| 43 | .0890 | 2.26 | 2-1/4 | 1-1/4 | C08347 |
| 42 | .0935 | 2.37 | 2-1/4 | 1-1/4 | C08348 |
| 3/32 | .0938 | 2.38 | 2-1/4 | 1-1/4 | C08303 |
| 41 | .0960 | 2.44 | 2-3/8 | 1-3/8 | C08349 |
| 40 | .0980 | 2.49 | 2-3/8 | 1-3/8 | C08350 |
| 39 | .0995 | 2.53 | 2-3/8 | 1-3/8 | C08351 |
| 38 | .1015 | 2.58 | 2-1/2 | 1-7/16 | C08352 |
| 37 | .1040 | 2.64 | 2-1/2 | 1-7/16 | C08353 |
| 36 | .1065 | 2.71 | 2-1/2 | 1-7/16 | C08354 |
| 7/64 | .1094 | 2.78 | 2-5/8 | 1-1/2 | C08304 |
| 35 | .1100 | 2.79 | 2-5/8 | 1-1/2 | C08355 |
| 34 | .1110 | 2.82 | 2-5/8 | 1-1/2 | C08356 |
| 33 | .1130 | 2.87 | 2-5/8 | 1-1/2 | C08357 |
| 32 | .1160 | 2.95 | 2-3/4 | 1-5/8 | C08358 |
| 31 | .1200 | 3.05 | 2-3/4 | 1-5/8 | C08359 |
| 1/8 | .1250 | 3.18 | 2-3/4 | 1-5/8 | C08305 |
| 30 | .1285 | 3.26 | 2-3/4 | 1-5/8 | C08360 |

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List #1830 continued

| Diameter | Decimal Equiv. | Metric Equiv. | Overall Length | Flute Length | EDP Number |
|----------|----------------|---------------|----------------|--------------|------------|
| 29 | .1360 | 3.45 | 2-7/8 | 1-3/4 | C08361 |
| 28 | .1405 | 3.57 | 2-7/8 | 1-3/4 | C08362 |
| 9/64 | .1406 | 3.57 | 2-7/8 | 1-3/4 | C08306 |
| 27 | .1440 | 3.66 | 3 | 1-7/8 | C08363 |
| 26 | .1470 | 3.73 | 3 | 1-7/8 | C08364 |
| 25 | .1495 | 3.80 | 3 | 1-7/8 | C08365 |
| 24 | .1520 | 3.86 | 3-1/8 | 2 | C08366 |
| 23 | .1540 | 3.91 | 3-1/8 | 2 | C08367 |
| 5/32 | .1562 | 3.97 | 3-1/8 | 2 | C08307 |
| 22 | .1570 | 3.99 | 3-1/8 | 2 | C08368 |
| 21 | .1590 | 4.04 | 3-1/4 | 2-1/8 | C08369 |
| 20 | .1610 | 4.09 | 3-1/4 | 2-1/8 | C08370 |
| 19 | .1660 | 4.22 | 3-1/4 | 2-1/8 | C08371 |
| 18 | .1695 | 4.31 | 3-1/4 | 2-1/8 | C08372 |
| 11/64 | .1719 | 4.37 | 3-1/4 | 2-1/8 | C08308 |
| 17 | .1730 | 4.39 | 3-3/8 | 2-3/16 | C08373 |
| 16 | .1770 | 4.50 | 3-3/8 | 2-3/16 | C08374 |
| 15 | .1800 | 4.57 | 3-3/8 | 2-3/16 | C08375 |
| 14 | .1820 | 4.62 | 3-3/8 | 2-3/16 | C08376 |
| 13 | .1850 | 4.70 | 3-1/2 | 2-5/16 | C08377 |
| 3/16 | .1875 | 4.76 | 3-1/2 | 2-5/16 | C08309 |
| 12 | .1890 | 4.80 | 3-1/2 | 2-5/16 | C08378 |
| 11 | .1910 | 4.85 | 3-1/2 | 2-5/16 | C08379 |
| 10 | .1935 | 4.91 | 3-5/8 | 2-7/16 | C08380 |
| 9 | .1960 | 4.98 | 3-5/8 | 2-7/16 | C08381 |
| 8 | .1990 | 5.05 | 3-5/8 | 2-7/16 | C08382 |
| 7 | .2010 | 5.11 | 3-5/8 | 2-7/16 | C08383 |
| 13/64 | .2031 | 5.16 | 3-5/8 | 2-7/16 | C08310 |
| 6 | .2040 | 5.18 | 3-3/4 | 2-1/2 | C08384 |
| 5 | .2055 | 5.22 | 3-3/4 | 2-1/2 | C08385 |
| 4 | .2090 | 5.31 | 3-3/4 | 2-1/2 | C08386 |
| 3 | .2130 | 5.41 | 3-3/4 | 2-1/2 | C08387 |
| 7/32 | .2188 | 5.56 | 3-3/4 | 2-1/2 | C08311 |
| 2 | .2210 | 5.61 | 3-7/8 | 2-5/8 | C08388 |
| 1 | .2280 | 5.79 | 3-7/8 | 2-5/8 | C08389 |
| A | .2340 | 5.94 | 3-7/8 | 2-5/8 | C07421 |
| 15/64 | .2344 | 5.95 | 3-7/8 | 2-5/8 | C08312 |
| B | .2380 | 6.05 | 4 | 2-3/4 | C07422 |
| C | .2420 | 6.15 | 4 | 2-3/4 | C07423 |

| Diameter | Decimal Equiv. | Metric Equiv. | Overall Length | Flute Length | EDP Number |
|----------|----------------|---------------|----------------|--------------|------------|
| D | .2460 | 6.25 | 4 | 2-3/4 | C07424 |
| 1/4, E | .2500 | 6.35 | 4 | 2-3/4 | C08313 |
| F | .2570 | 6.53 | 4-1/8 | 2-7/8 | C07425 |
| G | .2610 | 6.63 | 4-1/8 | 2-7/8 | C07426 |
| 17/64 | .2656 | 6.75 | 4-1/8 | 2-7/8 | C08314 |
| H | .2660 | 6.76 | 4-1/8 | 2-7/8 | C07427 |
| I | .2720 | 6.91 | 4-1/8 | 2-7/8 | C07428 |
| J | .2770 | 7.04 | 4-1/8 | 2-7/8 | C07429 |
| K | .2810 | 7.14 | 4-1/4 | 2-15/16 | C07430 |
| 9/32 | .2812 | 7.14 | 4-1/4 | 2-15/16 | C08315 |
| L | .2900 | 7.37 | 4-1/4 | 2-15/16 | C07431 |
| M | .2950 | 7.49 | 4-3/8 | 3-1/16 | C07432 |
| 19/64 | .2969 | 7.54 | 4-3/8 | 3-1/16 | C08316 |
| N | .3020 | 7.67 | 4-3/8 | 3-1/16 | C07433 |
| 5/16 | .3125 | 7.94 | 4-1/2 | 3-3/16 | C08317 |
| O | .3160 | 8.03 | 4-1/2 | 3-3/16 | C07434 |
| P | .3230 | 8.20 | 4-5/8 | 3-5/16 | C07435 |
| 21/64 | .3281 | 8.33 | 4-5/8 | 3-5/16 | C08318 |
| Q | .3320 | 8.43 | 4-3/4 | 3-7/16 | C07436 |
| R | .3390 | 8.61 | 4-3/4 | 3-7/16 | C07437 |
| 11/32 | .3438 | 8.73 | 4-3/4 | 3-7/16 | C08319 |
| S | .3480 | 8.84 | 4-7/8 | 3-1/2 | C07438 |
| T | .3580 | 9.09 | 4-7/8 | 3-1/2 | C07439 |
| 23/64 | .3594 | 9.13 | 4-7/8 | 3-1/2 | C08320 |
| U | .3680 | 9.35 | 5 | 3-5/8 | C07440 |
| 3/8 | .3750 | 9.53 | 5 | 3-5/8 | C08321 |
| V | .3770 | 9.58 | 5 | 3-5/8 | C07441 |
| W | .3860 | 9.80 | 5-1/8 | 3-3/4 | C07442 |
| 25/64 | .3906 | 9.92 | 5-1/8 | 3-3/4 | C08322 |
| X | .3970 | 10.08 | 5-1/8 | 3-3/4 | C07443 |
| Y | .4040 | 10.26 | 5-1/4 | 3-7/8 | C07444 |
| 13/32 | .4062 | 10.32 | 5-1/4 | 3-7/8 | C08323 |
| Z | .4130 | 10.49 | 5-1/4 | 3-7/8 | C07445 |
| 27/64 | .4219 | 10.72 | 5-3/8 | 3-15/16 | C08324 |
| 7/16 | .4375 | 11.11 | 5-1/2 | 4-1/16 | C08325 |
| 29/64 | .4531 | 11.51 | 5-5/8 | 4-3/16 | C08326 |
| 15/32 | .4688 | 11.91 | 5-3/4 | 4-5/16 | C08327 |
| 31/64 | .4844 | 12.30 | 5-7/8 | 4-3/8 | C08328 |
| 1/2 | .5000 | 12.70 | 6 | 4-1/2 | C08329 |

List #1810 Cle-Line® Screw Machine Length Features: Drill - Surface Treated



Substrate - HSS
 Length - Screw Machine length
 Surface Treatment - Black Oxide
 Shank - Straight
 Point - 135° Split



- Short flutes for rigid strong tools
- Black oxide finish for increased wear resistance & improved lubricity reducing chip welding & galling
- 135° split point is self centering, reducing thrust for ease of penetration

| Diameter | Decimal Equiv. | Metric Equiv. | Overall Length | Flute Length | EDP Number |
|----------|----------------|---------------|----------------|--------------|------------|
| 1/16 | .0625 | 1.59 | 1-5/8 | 5/8 | C07750 |
| 5/64 | .0781 | 1.98 | 1-11/16 | 11/16 | C07752 |
| 3/32 | .0938 | 2.38 | 1-3/4 | 3/4 | C07754 |
| 7/64 | .1094 | 2.78 | 1-13/16 | 13/16 | C07756 |
| 1/8 | .1250 | 3.18 | 1-7/8 | 7/8 | C07758 |
| 30 | .1285 | 3.26 | 1-15/16 | 15/16 | C07900 |
| 29 | .1360 | 3.45 | 1-15/16 | 15/16 | C07901 |
| 9/64 | .1406 | 3.57 | 1-15/16 | 15/16 | C07760 |

| Diameter | Decimal Equiv. | Metric Equiv. | Overall Length | Flute Length | EDP Number |
|----------|----------------|---------------|----------------|--------------|------------|
| 5/32 | .1562 | 3.97 | 2-1/16 | 1 | C07762 |
| 11/64 | .1719 | 4.37 | 2-1/8 | 1-1/16 | C07764 |
| 3/16 | .1875 | 4.76 | 2-3/16 | 1-1/8 | C07766 |
| 11 | .1910 | 4.85 | 2-1/4 | 1-3/16 | C07919 |
| 13/64 | .2031 | 5.16 | 2-1/4 | 1-3/16 | C07768 |
| 7/32 | .2188 | 5.56 | 2-3/8 | 1-1/4 | C07770 |
| 1 | .2280 | 5.79 | 2-7/16 | 1-5/16 | C07929 |
| 15/64 | .2344 | 5.95 | 2-7/16 | 1-5/16 | C07772 |

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