


HIGH SPEED STEEL METRIC TAPER SHANK DRILLS

ICS USA

GENERAL PURPOSE

118° POINT

| ITEM NO. | ILLUSTRATION | CUTTING APPLICATION | STEEL SPECS | TECHNICAL DATA |
|--------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------|
| TSD-M |  OXIDE FINISH | Taper Shank Drills have a tapered conical shank to fit directly into the tapered holes of drill press spindles, driving sleeves or sockets. They are designed for general purpose drilling in ferrous or non-ferrous metals. | M2 | 118° Point Std. Spiral Std. Web |

Metric Sizes (Regular Shank) 3.00mm to 22.50mm Dia.

| SIZE | DEC. EQUIV. | FLUTE LENGTH | OVERALL LENGTH | ITEM NO. | PRICE |
|--------------------|-------------|--------------|----------------|-------------------|-------|
| #1 MT SHANK | | | | | |
| 3.00 | .1181 | 1-5/16 | 4-1/2 | TSD-M03.0 | 15.60 |
| 3.20 | .1260 | 1-7/16 | 4-5/8 | TSD-M03.2 | 16.30 |
| 3.50 | .1378 | 1-17/32 | 4-3/4 | TSD-M03.5 | 16.30 |
| 3.80 | .1496 | 1-11/16 | 4-27/32 | TSD-M03.8 | 16.30 |
| 4.00 | .1575 | 1-11/16 | 4-27/32 | TSD-M04.0 | 16.30 |
| 4.20 | .1654 | 1-11/16 | 4-27/32 | TSD-M04.2 | 16.30 |
| 4.50 | .1772 | 1-27/32 | 5-1/32 | TSD-M04.5 | 13.80 |
| 4.80 | .1890 | 2-1/16 | 5-1/4 | TSD-M04.8 | 13.80 |
| 5.00 | .1969 | 2-1/16 | 5-1/4 | TSD-M05.0 | 13.80 |
| 5.20 | .2047 | 2-1/16 | 5-1/4 | TSD-M05.2 | 13.80 |
| 5.50 | .2165 | 2-1/4 | 5-7/16 | TSD-M05.5 | 13.80 |
| 5.80 | .2283 | 2-1/4 | 5-7/16 | TSD-M05.8 | 13.80 |
| 6.00 | .2362 | 2-1/4 | 5-7/16 | TSD-M06.0 | 13.80 |
| 6.20 | .2441 | 2-1/2 | 5-11/16 | TSD-M06.2 | 13.80 |
| 6.50 | .2559 | 2-1/2 | 5-11/16 | TSD-M06.5 | 13.80 |
| 6.80 | .2677 | 2-23/32 | 5-29/32 | TSD-M06.8 | 15.60 |
| 7.00 | .2756 | 2-23/32 | 5-29/32 | TSD-M07.0 | 15.60 |
| 7.20 | .2835 | 2-23/32 | 5-29/32 | TSD-M07.2 | 16.68 |
| 7.40 | .2913 | 2-23/32 | 5-29/32 | TSD-M07.4 | 20.80 |
| 7.50 | .2953 | 2-23/32 | 5-29/32 | TSD-M07.5 | 16.68 |
| 7.80 | .3071 | 2-15/16 | 6-1/8 | TSD-M07.8 | 18.98 |
| 8.00 | .3150 | 2-15/16 | 6-1/8 | TSD-M08.0 | 22.52 |
| 8.20 | .3228 | 2-15/16 | 6-1/8 | TSD-M08.2 | 23.84 |
| 8.50 | .3346 | 2-15/16 | 6-1/8 | TSD-M08.5 | 23.84 |
| 8.80 | .3465 | 3-3/16 | 6-3/8 | TSD-M08.8 | 27.22 |
| 9.00 | .3543 | 3-3/16 | 6-3/8 | TSD-M09.0 | 27.22 |
| 9.20 | .3622 | 3-3/16 | 6-3/8 | TSD-M09.2 | 27.22 |
| 9.50 | .3740 | 3-3/16 | 6-3/8 | TSD-M09.5 | 28.96 |
| 9.70 | .3819 | 3-7/16 | 6-5/8 | TSD-M09.7 | 28.96 |
| 9.80 | .3858 | 3-7/16 | 6-5/8 | TSD-M09.8 | 28.96 |
| 10.00 | .3937 | 3-7/16 | 6-5/8 | TSD-M10.0 | 29.58 |
| 10.20 | .4016 | 3-7/16 | 6-5/8 | TSD-M10.2 | 29.58 |
| 10.25 | .4075 | 3-7/16 | 6-5/8 | TSD-M10.25 | 33.60 |
| 10.50 | .4134 | 3-7/16 | 6-5/8 | TSD-M10.5 | 30.84 |
| 10.80 | .4252 | 3-11/16 | 6-7/8 | TSD-M10.8 | 30.84 |
| 11.00 | .4331 | 3-11/16 | 6-7/8 | TSD-M11.0 | 30.84 |

| SIZE | DEC. EQUIV. | FLUTE LENGTH | OVERALL LENGTH | ITEM NO. | PRICE |
|--------------------|-------------|--------------|----------------|-------------------|-------|
| #1 MT SHANK | | | | | |
| 11.20 | .4409 | 3-11/16 | 6-7/8 | TSD-M11.2 | 32.92 |
| 11.50 | .4528 | 3-11/16 | 6-7/8 | TSD-M11.5 | 32.92 |
| 11.80 | .4646 | 3-11/16 | 6-7/8 | TSD-M11.8 | 32.92 |
| 12.00 | .4724 | 3-31/32 | 7-5/32 | TSD-M12.0 | 32.92 |
| 12.20 | .4803 | 3-31/32 | 7-5/32 | TSD-M12.2 | 39.58 |
| 12.50 | .4921 | 3-31/32 | 7-5/32 | TSD-M12.5 | 39.58 |
| 12.80 | .5039 | 3-31/32 | 7-5/32 | TSD-M12.8 | 39.58 |
| 13.00 | .5118 | 3-31/32 | 7-5/32 | TSD-M13.0 | 39.58 |
| 13.20 | .5197 | 4-1/4 | 7-7/16 | TSD-M13.2 | 44.36 |
| 13.50 | .5315 | 4-1/4 | 7-7/16 | TSD-M13.5 | 44.36 |
| 13.80 | .5433 | 4-1/4 | 7-7/16 | TSD-M13.8 | 44.36 |
| 14.00 | .5512 | 4-1/4 | 7-7/16 | TSD-M14.0 | 44.36 |
| #2 MT SHANK | | | | | |
| 14.25 | .5610 | 4-1/2 | 8-3/8 | TSD-M14.25 | 48.16 |
| 14.50 | .5709 | 4-1/2 | 8-3/8 | TSD-M14.5 | 48.16 |
| 14.75 | .5807 | 4-1/2 | 8-3/8 | TSD-M14.75 | 48.16 |
| 15.00 | .5906 | 4-1/2 | 8-3/8 | TSD-M15.0 | 48.16 |
| 15.25 | .6004 | 4-3/4 | 8-5/8 | TSD-M15.25 | 50.46 |
| 15.50 | .6102 | 4-3/4 | 8-5/8 | TSD-M15.5 | 50.46 |
| 15.75 | .6201 | 4-3/4 | 8-5/8 | TSD-M15.75 | 52.68 |
| 16.00 | .6299 | 4-3/4 | 8-5/8 | TSD-M16.0 | 52.68 |
| 16.25 | .6398 | 4-7/8 | 8-3/4 | TSD-M16.25 | 52.68 |
| 16.50 | .6496 | 4-7/8 | 8-3/4 | TSD-M16.5 | 54.34 |
| 16.75 | .6594 | 4-7/8 | 8-3/4 | TSD-M16.75 | 54.34 |
| 17.00 | .6693 | 4-7/8 | 8-3/4 | TSD-M17.0 | 54.34 |
| 17.25 | .6791 | 5-1/8 | 9 | TSD-M17.25 | 58.90 |
| 17.50 | .6890 | 5-1/8 | 9 | TSD-M17.5 | 59.30 |
| 18.00 | .7087 | 5-1/8 | 9 | TSD-M18.0 | 59.30 |
| 18.50 | .7283 | 5-1/4 | 9-1/8 | TSD-M18.5 | 63.16 |
| 19.00 | .7480 | 5-1/4 | 9-1/8 | TSD-M19.0 | 63.16 |
| 19.50 | .7677 | 5-1/2 | 9-3/8 | TSD-M19.5 | 79.14 |
| 20.00 | .7874 | 5-1/2 | 9-3/8 | TSD-M20.0 | 79.14 |
| 20.50 | .8071 | 5-3/4 | 9-5/8 | TSD-M20.5 | 85.48 |
| 21.00 | .8268 | 5-3/4 | 9-5/8 | TSD-M21.0 | 85.48 |
| 21.50 | .8465 | 5-7/8 | 9-3/4 | TSD-M21.5 | 91.86 |
| 22.00 | .8661 | 5-7/8 | 9-3/4 | TSD-M22.0 | 91.86 |
| 22.50 | .8858 | 6-1/8 | 10 | TSD-M22.5 | 95.04 |