

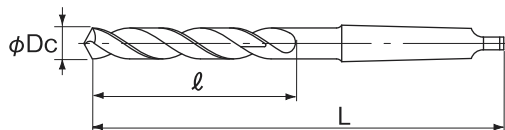
# TD

## テーパシャンクドリル

Taper Shank Drills

●もっとも広い用途で使用する汎用ドリルです。

This drill is applied for general purpose.



LIST 602

オーダ方法

TD 直径 (□商品 : TD 直径 × シャンク)

切削条件 Drilling Condition ●▶A-237

単位 (Unit) : mm / 円 (¥)

| 直径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク<br>MT No. | 在庫<br>Stock | 参考価格<br>Price |
|----------|---------|---------|----------------|-------------|---------------|
| 7.0      | 75      | 155     | 1              | ●           | 2,410         |
| 7.1      | 78      | 158     | 1              | ●           | 2,750         |
| 7.2      | 78      | 158     | 1              | ●           | 2,750         |
| 7.3      | 78      | 158     | 1              | ●           | 2,750         |
| 7.4      | 78      | 158     | 1              | ●           | 2,750         |
| 7.5      | 78      | 158     | 1              | ●           | 2,450         |
| 7.6      | 82      | 162     | 1              | ●           | 2,800         |
| 7.7      | 82      | 162     | 1              | ●           | 2,800         |
| 7.8      | 82      | 162     | 1              | ●           | 2,800         |
| 7.9      | 82      | 162     | 1              | ●           | 2,800         |
| 8.0      | 82      | 162     | 1              | ●           | 2,510         |
| 8.1      | 85      | 168     | 1              | ●           | 2,970         |
| 8.2      | 85      | 168     | 1              | ●           | 2,970         |
| 8.3      | 85      | 168     | 1              | ●           | 2,970         |
| 8.4      | 85      | 168     | 1              | ●           | 2,970         |
| 8.5      | 85      | 168     | 1              | ●           | 2,660         |
| 8.6      | 88      | 172     | 1              | ●           | 3,160         |
| 8.7      | 88      | 172     | 1              | ●           | 3,160         |
| 8.8      | 88      | 172     | 1              | ●           | 3,160         |
| 8.9      | 88      | 172     | 1              | ●           | 3,160         |
| 9.0      | 88      | 172     | 1              | ●           | 2,800         |
| 9.1      | 92      | 175     | 1              | ●           | 3,340         |
| 9.2      | 92      | 175     | 1              | ●           | 3,340         |
| 9.3      | 92      | 175     | 1              | ●           | 3,340         |
| 9.4      | 92      | 175     | 1              | ●           | 3,340         |
| 9.5      | 92      | 175     | 1              | ●           | 3,000         |
| 9.6      | 95      | 178     | 1              | ●           | 3,480         |
| 9.7      | 95      | 178     | 1              | ●           | 3,480         |
| 9.8      | 95      | 178     | 1              | ●           | 3,480         |
| 9.9      | 95      | 178     | 1              | ●           | 3,480         |
| 10.0     | 95      | 178     | 1              | ●           | 3,120         |
| 10.1     | 98      | 182     | 1              | ●           | 3,550         |
| 10.2     | 98      | 182     | 1              | ●           | 3,550         |
| 10.3     | 98      | 182     | 1              | ●           | 3,550         |
| 10.4     | 98      | 182     | 1              | ●           | 3,550         |
| 10.5     | 98      | 182     | 1              | ●           | 3,190         |
| 10.6     | 102     | 185     | 1              | ●           | 3,720         |
| 10.7     | 102     | 185     | 1              | ●           | 3,720         |
| 10.8     | 102     | 185     | 1              | ●           | 3,720         |
| 10.9     | 102     | 185     | 1              | ●           | 3,720         |
| 11.0     | 102     | 185     | 1              | ●           | 3,390         |
| 11.1     | 105     | 188     | 1              | ●           | 3,820         |
| 11.2     | 105     | 188     | 1              | ●           | 3,820         |
| 11.3     | 105     | 188     | 1              | ●           | 3,820         |
| 11.4     | 105     | 188     | 1              | ●           | 3,820         |
| 11.5     | 105     | 188     | 1              | ●           | 3,470         |
| 11.6     | 108     | 192     | 1              | ●           | 4,070         |
| 11.7     | 108     | 192     | 1              | ●           | 4,070         |
| 11.8     | 108     | 192     | 1              | ●           | 4,070         |
| 11.9     | 108     | 192     | 1              | ●           | 4,070         |
| 12.0     | 108     | 192     | 1              | ●           | 3,720         |
| 12.1     | 112     | 195     | 1              | ●           | 4,280         |
| 12.2     | 112     | 195     | 1              | ●           | 4,280         |
| 12.3     | 112     | 195     | 1              | ●           | 4,280         |
| 12.4     | 112     | 195     | 1              | ●           | 4,280         |
| 12.5     | 112     | 195     | 1              | ●           | 3,890         |
| 12.6     | 115     | 198     | 1              | ●           | 4,400         |
| 12.7     | 115     | 198     | 1              | ●           | 4,400         |
| 12.8     | 115     | 198     | 1              | ●           | 4,400         |
| 12.9     | 115     | 198     | 1              | ●           | 4,400         |
| 13.0     | 115     | 198     | 1              | ●           | 4,010         |
| 13.1     | 118     | 202     | 1              | ●           | 4,610         |

| 直径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク<br>MT No. | 在庫<br>Stock | 参考価格<br>Price |
|----------|---------|---------|----------------|-------------|---------------|
| 13.2     | 118     | 202     | 1              | ●           | 4,610         |
| 13.3     | 118     | 202     | 1              | ●           | 4,610         |
| 13.4     | 118     | 202     | 1              | ●           | 4,610         |
| 13.5     | 118     | 202     | 1              | ●           | 4,210         |
| 13.6     | 122     | 205     | 1              | ●           | 4,760         |
| 13.7     | 122     | 205     | 1              | ●           | 4,760         |
| 13.8     | 122     | 205     | 1              | ●           | 4,760         |
| 13.9     | 122     | 205     | 1              | ●           | 4,760         |
| 14.0     | 122     | 205     | 1              | ●           | 4,360         |
| 14.1     | 122     | 222     | 2              | ●           | 5,350         |
| 14.2     | 122     | 222     | 2              | ●           | 5,350         |
| 14.3     | 122     | 222     | 2              | ●           | 5,350         |
| 14.4     | 122     | 222     | 2              | ●           | 5,350         |
| 14.5     | 122     | 222     | 2              | ●           | 4,880         |
| 14.6     | 125     | 225     | 2              | ●           | 5,490         |
| 14.7     | 125     | 225     | 2              | ●           | 5,490         |
| 14.8     | 125     | 225     | 2              | ●           | 5,490         |
| 14.9     | 125     | 225     | 2              | ●           | 5,490         |
| 15.0     | 125     | 225     | 2              | ●           | 5,000         |
| 15.1     | 128     | 228     | 2              | ●           | 5,770         |
| 15.2     | 128     | 228     | 2              | ●           | 5,770         |
| 15.3     | 128     | 228     | 2              | ●           | 5,770         |
| 15.4     | 128     | 228     | 2              | ●           | 5,770         |
| 15.5     | 128     | 228     | 2              | ●           | 5,250         |
| 15.6     | 130     | 230     | 2              | ●           | 6,020         |
| 15.7     | 130     | 230     | 2              | ●           | 6,020         |
| 15.8     | 130     | 230     | 2              | ●           | 6,020         |
| 15.9     | 130     | 230     | 2              | ●           | 6,020         |
| 16.0     | 130     | 230     | 2              | ●           | 5,480         |
| 16.1     | 132     | 232     | 2              | ●           | 6,550         |
| 16.2     | 132     | 232     | 2              | ●           | 6,550         |
| 16.3     | 132     | 232     | 2              | ●           | 6,550         |
| 16.4     | 132     | 232     | 2              | ●           | 6,550         |
| 16.5     | 132     | 232     | 2              | ●           | 5,940         |
| 16.6     | 135     | 235     | 2              | ●           | 6,910         |
| 16.7     | 135     | 235     | 2              | ●           | 6,910         |
| 16.8     | 135     | 235     | 2              | ●           | 6,910         |
| 16.9     | 135     | 235     | 2              | ●           | 6,910         |
| 17.0     | 135     | 235     | 2              | ●           | 6,270         |
| 17.1     | 140     | 240     | 2              | ●           | 7,220         |
| 17.2     | 140     | 240     | 2              | ●           | 7,220         |
| 17.3     | 140     | 240     | 2              | ●           | 7,220         |
| 17.4     | 140     | 240     | 2              | ●           | 7,220         |
| 17.5     | 140     | 240     | 2              | ●           | 6,560         |
| 17.6     | 140     | 240     | 2              | ●           | 7,630         |
| 17.7     | 140     | 240     | 2              | ●           | 7,630         |
| 17.8     | 140     | 240     | 2              | ●           | 7,630         |
| 17.9     | 140     | 240     | 2              | ●           | 7,630         |
| 18.0     | 140     | 240     | 2              | ●           | 6,950         |
| 18.1     | 145     | 245     | 2              | ●           | 7,840         |
| 18.2     | 145     | 245     | 2              | ●           | 7,840         |
| 18.3     | 145     | 245     | 2              | ●           | 7,840         |
| 18.4     | 145     | 245     | 2              | ●           | 7,840         |
| 18.5     | 145     | 245     | 2              | ●           | 7,130         |
| 18.6     | 145     | 245     | 2              | ●           | 8,230         |
| 18.7     | 145     | 245     | 2              | ●           | 8,230         |
| 18.8     | 145     | 245     | 2              | ●           | 8,230         |
| 18.9     | 145     | 245     | 2              | ●           | 8,230         |
| 19.0     | 145     | 245     | 2              | ●           | 7,470         |
| 19.1     | 150     | 250     | 2              | ●           | 8,680         |
| 19.2     | 150     | 250     | 2              | ●           | 8,680         |
| 19.3     | 150     | 250     | 2              | ●           | 8,680         |

ドリル部表面にはホモ処理（酸化処理）が施されています。クーラントの潤滑性に効果があります。ただし直径 77mm 以上は表面処理が施されていません。直径許容差は h8 です。40 頁を参照ください。



工具材料



直径許容差



先端角



ねじれ角



直径範囲

|                                     |                                      |                                       |                             |                                    |
|-------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|------------------------------------|
| 低炭素鋼<br>軟鋼<br>SS400, S10C<br>~150HB | 炭素鋼<br>合金鋼<br>S45C, SCM440<br>~225HB | プレハードン鋼<br>高合金鋼<br>SUJ, NAK<br>~275HB | 調質鋼<br>SKD, SKH<br>30~40HRC | 焼入鋼<br>Hardened Steels<br>40~50HRC |
| ○                                   | ○                                    | ○                                     |                             | ×                                  |
| ステンレス鋼                              |                                      | 耐熱合金                                  | 鋳鉄                          | アルミ合金<br>銅合金                       |
| SUS304                              | SUS420                               | Ti/Ni Alloys                          | FC/FCD                      | Al/Cu                              |
|                                     |                                      |                                       | ○                           | ○                                  |

◎:最適 Excellent ○:適用 Good ×:不適 Not Used 無印 (No mark):推奨しません Not recommended

単位 (Unit): mm / 円 (¥)

| 直径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク<br>MT No. | 在庫<br>Stock | 参考価格<br>Price |
|----------|---------|---------|----------------|-------------|---------------|
| 19.4     | 150     | 250     | 2              | ●           | 8,680         |
| 19.5     | 150     | 250     | 2              | ●           | 7,940         |
| 19.6     | 150     | 250     | 2              | ●           | 9,040         |
| 19.7     | 150     | 250     | 2              | ●           | 9,040         |
| 19.8     | 150     | 250     | 2              | ●           | 9,040         |
| 19.9     | 150     | 250     | 2              | ●           | 9,040         |
| 20.0     | 150     | 250     | 2              | ●           | 8,200         |
| 20.1     | 155     | 255     | 2              | ●           | 9,190         |
| 20.2     | 155     | 255     | 2              | ●           | 9,190         |
| 20.3     | 155     | 255     | 2              | ●           | 9,190         |
| 20.4     | 155     | 255     | 2              | ●           | 9,190         |
| 20.5     | 155     | 255     | 2              | ●           | 8,360         |
| 20.6     | 155     | 255     | 2              | ●           | 9,510         |
| 20.7     | 155     | 255     | 2              | ●           | 9,510         |
| 20.8     | 155     | 255     | 2              | ●           | 9,510         |
| 20.9     | 155     | 255     | 2              | ●           | 9,510         |
| 21.0     | 155     | 255     | 2              | ●           | 8,680         |
| 21.1     | 160     | 260     | 2              | ●           | 9,940         |
| 21.2     | 160     | 260     | 2              | ●           | 9,940         |
| 21.3     | 160     | 260     | 2              | ●           | 9,940         |
| 21.4     | 160     | 260     | 2              | ●           | 9,940         |
| 21.5     | 160     | 260     | 2              | ●           | 9,040         |
| 21.6     | 160     | 260     | 2              | ●           | 10,200        |
| 21.7     | 160     | 260     | 2              | ●           | 10,200        |
| 21.8     | 160     | 260     | 2              | ●           | 10,200        |
| 21.9     | 160     | 260     | 2              | ●           | 10,200        |
| 22.0     | 160     | 260     | 2              | ●           | 9,280         |
| 22.1     | 165     | 265     | 2              | ●           | 10,800        |
| 22.2     | 165     | 265     | 2              | ●           | 10,800        |
| 22.3     | 165     | 265     | 2              | ●           | 10,800        |
| 22.4     | 165     | 265     | 2              | ●           | 10,800        |
| 22.5     | 165     | 265     | 2              | ●           | 9,710         |
| 22.6     | 165     | 265     | 2              | ●           | 11,200        |
| 22.7     | 165     | 265     | 2              | ●           | 11,200        |
| 22.8     | 165     | 265     | 2              | ●           | 11,200        |
| 22.9     | 165     | 265     | 2              | ●           | 11,200        |
| 23.0     | 165     | 265     | 2              | ●           | 10,100        |
| 23.1     | 165     | 285     | 3              | ●           | 12,700        |
| 23.2     | 165     | 285     | 3              | ●           | 12,700        |
| 23.3     | 165     | 285     | 3              | ●           | 12,700        |
| 23.4     | 165     | 285     | 3              | ●           | 12,700        |
| 23.5     | 165     | 285     | 3              | ●           | 11,000        |
| 23.6     | 165     | 285     | 3              | ●           | 13,100        |
| 23.7     | 165     | 285     | 3              | ●           | 13,100        |
| 23.8     | 165     | 285     | 3              | ●           | 13,100        |
| 23.9     | 165     | 285     | 3              | ●           | 13,100        |
| 24.0     | 165     | 285     | 3              | ●           | 11,500        |
| 24.1     | 165     | 285     | 3              | ●           | 13,800        |
| 24.2     | 165     | 285     | 3              | ●           | 13,800        |
| 24.3     | 165     | 285     | 3              | ●           | 13,800        |
| 24.4     | 165     | 285     | 3              | ●           | 13,800        |
| 24.5     | 165     | 285     | 3              | ●           | 11,900        |
| 24.6     | 165     | 285     | 3              | ●           | 14,100        |
| 24.7     | 165     | 285     | 3              | ●           | 14,100        |
| 24.8     | 165     | 285     | 3              | ●           | 14,100        |
| 24.9     | 165     | 285     | 3              | ●           | 14,100        |
| 25.0     | 165     | 285     | 3              | ●           | 12,400        |
| 25.1     | 165     | 285     | 3              | ●           | 14,700        |
| 25.2     | 165     | 285     | 3              | ●           | 14,700        |
| 25.3     | 165     | 285     | 3              | ●           | 14,700        |
| 25.4     | 165     | 285     | 3              | ●           | 14,700        |
| 25.5     | 165     | 285     | 3              | ●           | 12,700        |

| 直径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク<br>MT No. | 在庫<br>Stock | 参考価格<br>Price |
|----------|---------|---------|----------------|-------------|---------------|
| 25.6     | 165     | 285     | 3              | ●           | 15,100        |
| 25.7     | 165     | 285     | 3              | ●           | 15,100        |
| 25.8     | 165     | 285     | 3              | ●           | 15,100        |
| 25.9     | 165     | 285     | 3              | ●           | 15,100        |
| 26.0     | 165     | 285     | 3              | ●           | 13,100        |
| 26.1     | 170     | 290     | 3              | ●           | 15,700        |
| 26.2     | 170     | 290     | 3              | ●           | 15,700        |
| 26.3     | 170     | 290     | 3              | ●           | 15,700        |
| 26.4     | 170     | 290     | 3              | ●           | 15,700        |
| 26.5     | 170     | 290     | 3              | ●           | 13,700        |
| 26.6     | 170     | 290     | 3              | ●           | 16,200        |
| 26.7     | 170     | 290     | 3              | ●           | 16,200        |
| 26.8     | 170     | 290     | 3              | ●           | 16,200        |
| 26.9     | 170     | 290     | 3              | ●           | 16,200        |
| 27.0     | 170     | 290     | 3              | ●           | 14,000        |
| 27.1     | 175     | 295     | 3              | ●           | 16,900        |
| 27.2     | 175     | 295     | 3              | ●           | 16,900        |
| 27.3     | 175     | 295     | 3              | ●           | 16,900        |
| 27.4     | 175     | 295     | 3              | ●           | 16,900        |
| 27.5     | 175     | 295     | 3              | ●           | 14,500        |
| 27.6     | 175     | 295     | 3              | ●           | 17,300        |
| 27.7     | 175     | 295     | 3              | ●           | 17,300        |
| 27.8     | 175     | 295     | 3              | ●           | 17,300        |
| 27.9     | 175     | 295     | 3              | ●           | 17,300        |
| 28.0     | 175     | 295     | 3              | ●           | 15,000        |
| 28.1     | 180     | 300     | 3              | ●           | 18,100        |
| 28.2     | 180     | 300     | 3              | ●           | 18,100        |
| 28.3     | 180     | 300     | 3              | ●           | 18,100        |
| 28.4     | 180     | 300     | 3              | ●           | 18,100        |
| 28.5     | 180     | 300     | 3              | ●           | 15,700        |
| 28.6     | 180     | 300     | 3              | ●           | 19,100        |
| 28.7     | 180     | 300     | 3              | ●           | 19,100        |
| 28.8     | 180     | 300     | 3              | ●           | 19,100        |
| 28.9     | 180     | 300     | 3              | ●           | 19,100        |
| 29.0     | 180     | 300     | 3              | ●           | 16,500        |
| 29.1     | 185     | 305     | 3              | ●           | 19,400        |
| 29.2     | 185     | 305     | 3              | ●           | 19,400        |
| 29.3     | 185     | 305     | 3              | ●           | 19,400        |
| 29.4     | 185     | 305     | 3              | ●           | 19,400        |
| 29.5     | 185     | 305     | 3              | ●           | 17,000        |
| 29.6     | 185     | 305     | 3              | ●           | 20,500        |
| 29.7     | 185     | 305     | 3              | ●           | 20,500        |
| 29.8     | 185     | 305     | 3              | ●           | 20,500        |
| 29.9     | 185     | 305     | 3              | ●           | 20,500        |
| 30.0     | 185     | 305     | 3              | ●           | 18,000        |
| 30.1     | 190     | 310     | 3              | ●           | 21,500        |
| 30.2     | 190     | 310     | 3              | ●           | 21,500        |
| 30.3     | 190     | 310     | 3              | ●           | 21,500        |
| 30.4     | 190     | 310     | 3              | ●           | 21,500        |
| 30.5     | 190     | 310     | 3              | ●           | 18,700        |
| 30.6     | 190     | 310     | 3              | ●           | 22,400        |
| 30.7     | 190     | 310     | 3              | ●           | 22,400        |
| 30.8     | 190     | 310     | 3              | ●           | 22,400        |
| 30.9     | 190     | 310     | 3              | ●           | 22,400        |
| 31.0     | 190     | 310     | 3              | ●           | 19,400        |
| 31.1     | 195     | 315     | 3              | ●           | 23,400        |
| 31.2     | 195     | 315     | 3              | ●           | 23,400        |
| 31.3     | 195     | 315     | 3              | ●           | 23,400        |
| 31.4     | 195     | 315     | 3              | ●           | 23,400        |
| 31.5     | 195     | 315     | 3              | ●           | 20,200        |
| 31.6     | 195     | 315     | 3              | ●           | 24,800        |
| 31.7     | 195     | 315     | 3              | ●           | 24,800        |

総目次

Non  
Coat

穴深さ

～3D

～5D

～7D

～9D

深穴

ノス  
ドリル

鉄骨

油穴付き

アルミ・  
非鉄金属

ストレート  


テーパ  


単位 (Unit) : mm / 円 (¥)

| 直径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク<br>MT No. | 在庫<br>Stock | 参考価格<br>Price |
|----------|---------|---------|----------------|-------------|---------------|
| 31.8     | 195     | 315     | 3              | ●           | 24,800        |
| 31.9     | 195     | 315     | 3              | ●           | 24,800        |
| 32.0     | 195     | 315     | 3              | ●           | 21,300        |
| 32.1     | 200     | 345     | 4              | ●           | 29,400        |
| 32.2     | 200     | 345     | 4              | ●           | 29,400        |
| 32.3     | 200     | 345     | 4              | ●           | 29,400        |
| 32.4     | 200     | 345     | 4              | ●           | 29,400        |
| 32.5     | 200     | 345     | 4              | ●           | 26,600        |
| 32.6     | 200     | 345     | 4              | ●           | 29,400        |
| 32.7     | 200     | 345     | 4              | ●           | 29,400        |
| 32.8     | 200     | 345     | 4              | ●           | 29,400        |
| 32.9     | 200     | 345     | 4              | ●           | 29,400        |
| 33.0     | 200     | 345     | 4              | ●           | 24,500        |
| 33.1     | 205     | 350     | 4              | ●           | 31,200        |
| 33.2     | 205     | 350     | 4              | ●           | 31,200        |
| 33.3     | 205     | 350     | 4              | ●           | 31,200        |
| 33.4     | 205     | 350     | 4              | ●           | 31,200        |
| 33.5     | 205     | 350     | 4              | ●           | 27,900        |
| 33.6     | 205     | 350     | 4              | ●           | 31,200        |
| 33.7     | 205     | 350     | 4              | ●           | 31,200        |
| 33.8     | 205     | 350     | 4              | ●           | 31,200        |
| 33.9     | 205     | 350     | 4              | ●           | 31,200        |
| 34.0     | 205     | 350     | 4              | ●           | 25,900        |
| 34.1     | 205     | 350     | 4              | ●           | 32,600        |
| 34.2     | 205     | 350     | 4              | ●           | 32,600        |
| 34.3     | 205     | 350     | 4              | ●           | 32,600        |
| 34.4     | 205     | 350     | 4              | ●           | 32,600        |
| 34.5     | 205     | 350     | 4              | ●           | 29,400        |
| 34.6     | 205     | 350     | 4              | ●           | 32,600        |
| 34.7     | 205     | 350     | 4              | ●           | 32,600        |
| 34.8     | 205     | 350     | 4              | ●           | 32,600        |
| 34.9     | 205     | 350     | 4              | ●           | 32,600        |
| 35.0     | 205     | 350     | 4              | ●           | 27,300        |
| 35.1     | 210     | 355     | 4              | ●           | 34,400        |
| 35.2     | 210     | 355     | 4              | ●           | 34,400        |
| 35.3     | 210     | 355     | 4              | ●           | 34,400        |
| 35.4     | 210     | 355     | 4              | ●           | 34,400        |
| 35.5     | 210     | 355     | 4              | ●           | 31,200        |
| 35.6     | 210     | 355     | 4              | ●           | 34,400        |
| 35.7     | 210     | 355     | 4              | ●           | 34,400        |
| 35.8     | 210     | 355     | 4              | ●           | 34,400        |
| 35.9     | 210     | 355     | 4              | ●           | 34,400        |
| 36.0     | 210     | 355     | 4              | ●           | 28,800        |
| 36.1     | 210     | 355     | 4              | ●           | 36,200        |
| 36.2     | 210     | 355     | 4              | ●           | 36,200        |
| 36.3     | 210     | 355     | 4              | ●           | 36,200        |
| 36.4     | 210     | 355     | 4              | ●           | 36,200        |
| 36.5     | 210     | 355     | 4              | ●           | 32,800        |
| 36.6     | 210     | 355     | 4              | ●           | 36,200        |
| 36.7     | 210     | 355     | 4              | ●           | 36,200        |
| 36.8     | 210     | 355     | 4              | ●           | 36,200        |
| 36.9     | 210     | 355     | 4              | ●           | 36,200        |
| 37.0     | 210     | 355     | 4              | ●           | 30,400        |
| 37.1     | 215     | 360     | 4              | ●           | 38,000        |
| 37.2     | 215     | 360     | 4              | ●           | 38,000        |
| 37.3     | 215     | 360     | 4              | ●           | 38,000        |
| 37.4     | 215     | 360     | 4              | ●           | 38,000        |
| 37.5     | 215     | 360     | 4              | ●           | 34,400        |
| 37.6     | 215     | 360     | 4              | ●           | 38,000        |
| 37.7     | 215     | 360     | 4              | ●           | 38,000        |
| 37.8     | 215     | 360     | 4              | ●           | 38,000        |
| 37.9     | 215     | 360     | 4              | ●           | 38,000        |
| 38.0     | 215     | 360     | 4              | ●           | 31,800        |
| 38.1     | 215     | 360     | 4              | ●           | 39,800        |
| 38.2     | 215     | 360     | 4              | ●           | 39,800        |
| 38.3     | 215     | 360     | 4              | ●           | 39,800        |
| 38.4     | 215     | 360     | 4              | ●           | 39,800        |
| 38.5     | 215     | 360     | 4              | ●           | 35,800        |
| 38.6     | 215     | 360     | 4              | ●           | 39,800        |
| 38.7     | 215     | 360     | 4              | ●           | 39,800        |
| 38.8     | 215     | 360     | 4              | ●           | 39,800        |
| 38.9     | 215     | 360     | 4              | ●           | 39,800        |

| 直径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク<br>MT No. | 在庫<br>Stock | 参考価格<br>Price |
|----------|---------|---------|----------------|-------------|---------------|
| 39.0     | 215     | 360     | 4              | ●           | 33,000        |
| 39.1     | 220     | 365     | 4              | ●           | 42,500        |
| 39.2     | 220     | 365     | 4              | ●           | 42,500        |
| 39.3     | 220     | 365     | 4              | ●           | 42,500        |
| 39.4     | 220     | 365     | 4              | ●           | 42,500        |
| 39.5     | 220     | 365     | 4              | ●           | 38,000        |
| 39.6     | 220     | 365     | 4              | ●           | 42,500        |
| 39.7     | 220     | 365     | 4              | ●           | 42,500        |
| 39.8     | 220     | 365     | 4              | ●           | 42,500        |
| 39.9     | 220     | 365     | 4              | ●           | 42,500        |
| 40.0     | 220     | 365     | 4              | ●           | 35,400        |
| 40.1     | 220     | 365     | 4              | ●           | 45,000        |
| 40.2     | 220     | 365     | 4              | ●           | 45,000        |
| 40.3     | 220     | 365     | 4              | ●           | 45,000        |
| 40.4     | 220     | 365     | 4              | ●           | 45,000        |
| 40.5     | 220     | 365     | 4              | ●           | 40,600        |
| 40.6     | 220     | 365     | 4              | ●           | 45,000        |
| 40.7     | 220     | 365     | 4              | ●           | 45,000        |
| 40.8     | 220     | 365     | 4              | ●           | 45,000        |
| 40.9     | 220     | 365     | 4              | ●           | 45,000        |
| 41.0     | 220     | 365     | 4              | ●           | 37,400        |
| 41.1     | 225     | 370     | 4              | ●           | 46,800        |
| 41.2     | 225     | 370     | 4              | ●           | 46,800        |
| 41.3     | 225     | 370     | 4              | ●           | 46,800        |
| 41.4     | 225     | 370     | 4              | ●           | 46,800        |
| 41.5     | 225     | 370     | 4              | ●           | 42,100        |
| 41.6     | 225     | 370     | 4              | ●           | 46,800        |
| 41.7     | 225     | 370     | 4              | ●           | 46,800        |
| 41.8     | 225     | 370     | 4              | ●           | 46,800        |
| 41.9     | 225     | 370     | 4              | ●           | 46,800        |
| 42.0     | 225     | 370     | 4              | ●           | 39,000        |
| 42.1     | 225     | 370     | 4              | ●           | 50,600        |
| 42.2     | 225     | 370     | 4              | ●           | 50,600        |
| 42.3     | 225     | 370     | 4              | ●           | 50,600        |
| 42.4     | 225     | 370     | 4              | ●           | 50,600        |
| 42.5     | 225     | 370     | 4              | ●           | 45,600        |
| 42.6     | 225     | 370     | 4              | ●           | 50,600        |
| 42.7     | 225     | 370     | 4              | ●           | 50,600        |
| 42.8     | 225     | 370     | 4              | ●           | 50,600        |
| 42.9     | 225     | 370     | 4              | ●           | 50,600        |
| 43.0     | 225     | 370     | 4              | ●           | 42,400        |
| 43.1     | 230     | 375     | 4              | ●           | 52,500        |
| 43.2     | 230     | 375     | 4              | ●           | 52,500        |
| 43.3     | 230     | 375     | 4              | ●           | 52,500        |
| 43.4     | 230     | 375     | 4              | ●           | 52,500        |
| 43.5     | 230     | 375     | 4              | ●           | 47,500        |
| 43.6     | 230     | 375     | 4              | ●           | 52,500        |
| 43.7     | 230     | 375     | 4              | ●           | 52,500        |
| 43.8     | 230     | 375     | 4              | ●           | 52,500        |
| 43.9     | 230     | 375     | 4              | ●           | 52,500        |
| 44.0     | 230     | 375     | 4              | ●           | 43,800        |
| 44.1     | 230     | 375     | 4              | ●           | 55,300        |
| 44.2     | 230     | 375     | 4              | ●           | 55,300        |
| 44.3     | 230     | 375     | 4              | ●           | 55,300        |
| 44.4     | 230     | 375     | 4              | ●           | 55,300        |
| 44.5     | 230     | 375     | 4              | ●           | 49,900        |
| 44.6     | 230     | 375     | 4              | ●           | 55,300        |
| 44.7     | 230     | 375     | 4              | ●           | 55,300        |
| 44.8     | 230     | 375     | 4              | ●           | 55,300        |
| 44.9     | 230     | 375     | 4              | ●           | 55,300        |
| 45.0     | 230     | 375     | 4              | ●           | 46,000        |
| 45.1     | 235     | 380     | 4              | ●           | 58,200        |
| 45.2     | 235     | 380     | 4              | ●           | 58,200        |
| 45.3     | 235     | 380     | 4              | ●           | 58,200        |
| 45.4     | 235     | 380     | 4              | ●           | 58,200        |
| 45.5     | 235     | 380     | 4              | ●           | 52,400        |
| 45.6     | 235     | 380     | 4              | ●           | 58,200        |
| 45.7     | 235     | 380     | 4              | ●           | 58,200        |
| 45.8     | 235     | 380     | 4              | ●           | 58,200        |
| 45.9     | 235     | 380     | 4              | ●           | 58,200        |
| 46.0     | 235     | 380     | 4              | ●           | 48,600        |
| 46.1     | 235     | 380     | 4              | ●           | 61,200        |

単位 (Unit) : mm / 円 (¥)

| 直径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク<br>MT No. | 在庫<br>Stock | 参考価格<br>Price |
|----------|---------|---------|----------------|-------------|---------------|
| 46.2     | 235     | 380     | 4              | ●           | 61,200        |
| 46.3     | 235     | 380     | 4              | ●           | 61,200        |
| 46.4     | 235     | 380     | 4              | ●           | 61,200        |
| 46.5     | 235     | 380     | 4              | ●           | 55,000        |
| 46.6     | 235     | 380     | 4              | ●           | 61,200        |
| 46.7     | 235     | 380     | 4              | ●           | 61,200        |
| 46.8     | 235     | 380     | 4              | ●           | 61,200        |
| 46.9     | 235     | 380     | 4              | ●           | 61,200        |
| 47.0     | 235     | 380     | 4              | ●           | 51,100        |
| 47.1     | 240     | 385     | 4              | ●           | 64,400        |
| 47.2     | 240     | 385     | 4              | ●           | 64,400        |
| 47.3     | 240     | 385     | 4              | ●           | 64,400        |
| 47.4     | 240     | 385     | 4              | ●           | 64,400        |
| 47.5     | 240     | 385     | 4              | ●           | 58,000        |
| 47.6     | 240     | 385     | 4              | ●           | 64,400        |
| 47.7     | 240     | 385     | 4              | ●           | 64,400        |
| 47.8     | 240     | 385     | 4              | ●           | 64,400        |
| 47.9     | 240     | 385     | 4              | ●           | 64,400        |
| 48.0     | 240     | 385     | 4              | ●           | 53,600        |
| 48.1     | 240     | 385     | 4              | ●           | 67,600        |
| 48.2     | 240     | 385     | 4              | ●           | 67,600        |
| 48.3     | 240     | 385     | 4              | ●           | 67,600        |
| 48.4     | 240     | 385     | 4              | ●           | 67,600        |
| 48.5     | 240     | 385     | 4              | ●           | 60,900        |
| 48.6     | 240     | 385     | 4              | ●           | 67,600        |
| 48.7     | 240     | 385     | 4              | ●           | 67,600        |
| 48.8     | 240     | 385     | 4              | ●           | 67,600        |
| 48.9     | 240     | 385     | 4              | ●           | 67,600        |
| 49.0     | 240     | 385     | 4              | ●           | 56,300        |
| 49.1     | 245     | 390     | 4              | ●           | 70,800        |
| 49.2     | 245     | 390     | 4              | ●           | 70,800        |
| 49.3     | 245     | 390     | 4              | ●           | 70,800        |
| 49.4     | 245     | 390     | 4              | ●           | 70,800        |
| 49.5     | 245     | 390     | 4              | ●           | 63,700        |
| 49.6     | 245     | 390     | 4              | ●           | 70,800        |
| 49.7     | 245     | 390     | 4              | ●           | 70,800        |
| 49.8     | 245     | 390     | 4              | ●           | 70,800        |
| 49.9     | 245     | 390     | 4              | ●           | 70,800        |
| 50.0     | 245     | 390     | 4              | ●           | 58,900        |
| 50.5     | 245     | 425     | 5              | ●           | 70,900        |
| 51.0     | 245     | 425     | 5              | ●           | 65,500        |
| 51.5     | 250     | 430     | 5              | ●           | 75,500        |
| 52.0     | 250     | 430     | 5              | ●           | 69,900        |
| 52.5     | 250     | 430     | 5              | ●           | 79,800        |
| 53.0     | 250     | 430     | 5              | ●           | 73,700        |
| 53.5     | 255     | 435     | 5              | ●           | 84,600        |
| 54.0     | 255     | 435     | 5              | ●           | 78,600        |
| 54.5     | 255     | 435     | 5              | ●           | 89,700        |
| 55.0     | 255     | 435     | 5              | ●           | 83,200        |
| 55.5     | 260     | 440     | 5              | ●           | 93,700        |
| 56.0     | 260     | 440     | 5              | ●           | 86,800        |
| 56.5     | 260     | 440     | 5              | ●           | 98,600        |
| 57.0     | 260     | 440     | 5              | ●           | 91,000        |
| 57.5     | 265     | 445     | 5              | ●           | 103,000       |
| 58.0     | 265     | 445     | 5              | ●           | 95,300        |
| 58.5     | 265     | 445     | 5              | ●           | 108,000       |
| 59.0     | 265     | 445     | 5              | ●           | 99,400        |
| 59.5     | 270     | 450     | 5              | ●           | 113,000       |
| 60.0     | 270     | 450     | 5              | ●           | 104,000       |
| 60.5     | 270     | 450     | 5              | ●           | 118,000       |
| 61.0     | 270     | 450     | 5              | ●           | 109,000       |
| 61.5     | 275     | 455     | 5              | ●           | 124,000       |
| 62.0     | 275     | 455     | 5              | ●           | 115,000       |
| 62.5     | 275     | 455     | 5              | ●           | 128,000       |
| 63.0     | 275     | 455     | 5              | ●           | 119,000       |
| 63.5     | 280     | 460     | 5              | ●           | 135,000       |
| 64.0     | 280     | 460     | 5              | ●           | 124,000       |
| 64.5     | 280     | 460     | 5              | ●           | 139,000       |
| 65.0     | 280     | 460     | 5              | ●           | 129,000       |
| 65.5     | 285     | 465     | 5              | ●           | 145,000       |
| 66.0     | 285     | 465     | 5              | ●           | 135,000       |
| 66.5     | 285     | 465     | 5              | ●           | 150,000       |

| 直径<br>Dc | 溝長<br>ℓ | 全長<br>L | シャンク<br>MT No. | 在庫<br>Stock | 参考価格<br>Price |
|----------|---------|---------|----------------|-------------|---------------|
| 67.0     | 285     | 465     | 5              | ●           | 139,000       |
| 67.5     | 290     | 470     | 5              | ●           | 157,000       |
| 68.0     | 290     | 470     | 5              | ●           | 146,000       |
| 68.5     | 290     | 470     | 5              | ●           | 162,000       |
| 69.0     | 290     | 470     | 5              | ●           | 150,000       |
| 69.5     | 295     | 475     | 5              | ●           | 170,000       |
| 70.0     | 295     | 475     | 5              | ●           | 156,000       |
| 70.5     | 295     | 475     | 5              | ●           | 174,000       |
| 71.0     | 295     | 475     | 5              | ●           | 162,000       |
| 71.5     | 300     | 480     | 5              | ●           | 183,000       |
| 72.0     | 300     | 480     | 5              | ●           | 170,000       |
| 72.5     | 300     | 480     | 5              | ●           | 192,000       |
| 73.0     | 300     | 480     | 5              | ●           | 180,000       |
| 73.5     | 305     | 485     | 5              | ●           | 197,000       |
| 74.0     | 305     | 485     | 5              | ●           | 183,000       |
| 74.5     | 305     | 485     | 5              | ●           | 204,000       |
| 75.0     | 305     | 485     | 5              | ●           | 190,000       |
| 75.5     | 310     | 490     | 5              | ●           | 241,000       |
| 76.0     | 310     | 490     | 5              | ●           | 223,000       |
| 77.0     | 315     | 500     | 5              | □           | -             |
| 77.0     | 315     | 560     | 6              | ●           | 282,000       |
| 78.0     | 315     | 500     | 5              | □           | -             |
| 78.0     | 315     | 560     | 6              | ●           | 291,000       |
| 79.0     | 315     | 500     | 5              | □           | -             |
| 79.0     | 315     | 560     | 6              | ●           | 300,000       |
| 80.0     | 315     | 500     | 5              | □           | -             |
| 80.0     | 315     | 560     | 6              | ●           | 308,000       |
| 81.0     | 325     | 510     | 5              | □           | -             |
| 81.0     | 325     | 570     | 6              | ●           | 318,000       |
| 82.0     | 325     | 510     | 5              | □           | -             |
| 82.0     | 325     | 570     | 6              | ●           | 325,000       |
| 83.0     | 325     | 510     | 5              | □           | -             |
| 83.0     | 325     | 570     | 6              | ●           | 334,000       |
| 84.0     | 325     | 510     | 5              | □           | -             |
| 84.0     | 325     | 570     | 6              | ●           | 344,000       |
| 85.0     | 325     | 510     | 5              | □           | -             |
| 85.0     | 325     | 570     | 6              | ●           | 351,000       |
| 86.0     | 335     | 520     | 5              | □           | -             |
| 86.0     | 335     | 580     | 6              | ●           | 361,000       |
| 87.0     | 335     | 520     | 5              | □           | -             |
| 87.0     | 335     | 580     | 6              | ●           | 368,000       |
| 88.0     | 335     | 520     | 5              | □           | -             |
| 88.0     | 335     | 580     | 6              | ●           | 379,000       |
| 89.0     | 335     | 520     | 5              | □           | -             |
| 89.0     | 335     | 580     | 6              | ●           | 390,000       |
| 90.0     | 335     | 520     | 5              | □           | -             |
| 90.0     | 335     | 580     | 6              | ●           | 400,000       |
| 91.0     | 345     | 530     | 5              | □           | -             |
| 91.0     | 345     | 590     | 6              | ●           | 414,000       |
| 92.0     | 345     | 530     | 5              | □           | -             |
| 92.0     | 345     | 590     | 6              | ●           | 428,000       |
| 93.0     | 345     | 530     | 5              | □           | -             |
| 93.0     | 345     | 590     | 6              | ●           | 438,000       |
| 94.0     | 345     | 530     | 5              | □           | -             |
| 94.0     | 345     | 590     | 6              | ●           | 453,000       |
| 95.0     | 345     | 530     | 5              | □           | -             |
| 95.0     | 345     | 590     | 6              | ●           | 472,000       |
| 96.0     | 355     | 540     | 5              | □           | -             |
| 96.0     | 355     | 600     | 6              | ●           | 489,000       |
| 97.0     | 355     | 540     | 5              | □           | -             |
| 97.0     | 355     | 600     | 6              | ●           | 506,000       |
| 98.0     | 355     | 540     | 5              | □           | -             |
| 98.0     | 355     | 600     | 6              | ●           | 522,000       |
| 99.0     | 355     | 540     | 5              | □           | -             |
| 99.0     | 355     | 600     | 6              | ●           | 539,000       |
| 100.0    | 355     | 540     | 5              | □           | -             |
| 100.0    | 355     | 600     | 6              | ●           | 556,000       |

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