

超硬3Dタイプオイル穴無し2枚刃ドリル【刀】

2 Flutes Tungsten Carbide Drill 3D Type without Oil Hole

品質の良い2枚刃超硬ドリルを低価格でご提供いたします。コーティングはALTiNを施しております。シリーズには内部クーラントホール付きと無しがあり、刃長は3Dタイプと5Dタイプがございます。



| ワーク | 炭素鋼等 HRC35以下 | 合金鋼 HRC45辺り | 焼入鋼 HRC50辺り | 焼入鋼 HRC60以上 | 鋳物 | ステンレス チタン合金 | 耐熱合金 | 銅 | アルミ | ナイロン 樹脂系 |
|-------------------|-----------------|----------------|----------------|----------------|------------|----------------|------|------------|-----|-------------|
| 第一推奨● 第二推奨○ 第三推奨△ | ● | ● | | | ● | ○ | | ● | | ○ |
| ブリネル硬度(HB) | ~125 | 125~300 | | | ~300 | 125~300 | | ~125 | | ~125 |
| 外部給油 切削速度 Vc | 120-80-50 | 120-70-45 | | | 120-80-60 | 120-70-45 | | 120-80-50 | | 120-80-50 |
| 内部給油 切削速度 Vc | 140-100-60 | 120-80-60 | | | 140-100-60 | 120-80-60 | | 140-100-60 | | 140-100-60 |
| 送りスピード F | 3~4φ | 0.10-0.20 | 0.10-0.20 | | 0.11-0.18 | | | 0.10-0.20 | | 0.10-0.20 |
| | 4~6φ | 0.14-0.25 | 0.14-0.25 | | 0.13-0.20 | 0.14-0.25 | | 0.14-0.25 | | 0.14-0.25 |
| | 6~8φ | 0.16-0.32 | 0.16-0.32 | | 0.15-0.25 | 0.16-0.32 | | 0.16-0.32 | | 0.16-0.32 |
| | 8~10φ | 0.16-0.35 | 0.16-0.35 | | 0.17-0.32 | 0.16-0.35 | | 0.16-0.35 | | 0.16-0.35 |
| | 10~12φ | 0.18-0.40 | 0.18-0.40 | | 0.20-0.36 | 0.18-0.40 | | 0.18-0.40 | | 0.18-0.40 |
| | 12~16φ | 0.22-0.45 | 0.22-0.45 | | 0.24-0.45 | 0.22-0.45 | | 0.22-0.45 | | 0.22-0.45 |
| | 16~20φ | 0.25-0.50 | 0.25-0.50 | | 0.28-0.48 | 0.25-0.50 | | 0.25-0.50 | | 0.25-0.50 |

| CTW3Dシリーズ 型番 | 定価 | 刃径 | 刃先角度 | シャンク(h6) | 刃長 | 全長 | — | — | — | — | — |
|--------------|-------|-----|------|----------|----|----|---|---|---|---|---|
| CTW030D6 | 4,940 | 3 | 140° | 6 | 20 | 62 | | | | | |
| CTW031D6 | 4,940 | 3.1 | 140° | 6 | 20 | 62 | | | | | |
| CTW032D6 | 4,940 | 3.2 | 140° | 6 | 20 | 62 | | | | | |
| CTW033D6 | 4,940 | 3.3 | 140° | 6 | 20 | 62 | | | | | |
| CTW034D6 | 4,940 | 3.4 | 140° | 6 | 20 | 62 | | | | | |
| CTW035D6 | 4,940 | 3.5 | 140° | 6 | 20 | 62 | | | | | |
| CTW036D6 | 4,940 | 3.6 | 140° | 6 | 20 | 62 | | | | | |
| CTW037D6 | 4,940 | 3.7 | 140° | 6 | 20 | 62 | | | | | |
| CTW038D6 | 5,660 | 3.8 | 140° | 6 | 24 | 66 | | | | | |
| CTW039D6 | 5,660 | 3.9 | 140° | 6 | 24 | 66 | | | | | |
| CTW040D6 | 5,660 | 4 | 140° | 6 | 24 | 66 | | | | | |
| CTW041D6 | 5,660 | 4.1 | 140° | 6 | 24 | 66 | | | | | |
| CTW042D6 | 5,660 | 4.2 | 140° | 6 | 24 | 66 | | | | | |
| CTW043D6 | 5,660 | 4.3 | 140° | 6 | 24 | 66 | | | | | |
| CTW044D6 | 5,660 | 4.4 | 140° | 6 | 24 | 66 | | | | | |
| CTW045D6 | 5,660 | 4.5 | 140° | 6 | 24 | 66 | | | | | |
| CTW046D6 | 5,660 | 4.6 | 140° | 6 | 24 | 66 | | | | | |
| CTW047D6 | 5,660 | 4.7 | 140° | 6 | 24 | 66 | | | | | |
| CTW048D6 | 5,660 | 4.8 | 140° | 6 | 28 | 66 | | | | | |
| CTW049D6 | 5,660 | 4.9 | 140° | 6 | 28 | 66 | | | | | |
| CTW050D6 | 5,660 | 5 | 140° | 6 | 28 | 66 | | | | | |
| CTW051D6 | 5,660 | 5.1 | 140° | 6 | 28 | 66 | | | | | |
| CTW052D6 | 5,660 | 5.2 | 140° | 6 | 28 | 66 | | | | | |
| CTW053D6 | 5,660 | 5.3 | 140° | 6 | 28 | 66 | | | | | |
| CTW054D6 | 5,660 | 5.4 | 140° | 6 | 28 | 66 | | | | | |
| CTW055D6 | 5,660 | 5.5 | 140° | 6 | 28 | 66 | | | | | |
| CTW056D6 | 5,660 | 5.6 | 140° | 6 | 28 | 66 | | | | | |
| CTW057D6 | 5,660 | 5.7 | 140° | 6 | 28 | 66 | | | | | |
| CTW058D6 | 5,660 | 5.8 | 140° | 6 | 28 | 66 | | | | | |
| CTW059D6 | 5,660 | 5.9 | 140° | 6 | 28 | 66 | | | | | |

| CTW3Dシリーズ 型番 | 定価 | 刃径 | 刃先角度 | シャンク(h6) | 刃長 | 全長 | — | — | — | — | — |
|--------------|----|----|------|----------|----|----|---|---|---|---|---|
|--------------|----|----|------|----------|----|----|---|---|---|---|---|

| | | | | | | | | | | | |
|------------|--------|------|------|----|----|-----|--|--|--|--|--|
| CTW060D6 | 5,660 | 6 | 140° | 6 | 28 | 66 | | | | | |
| CTW061D8 | 8,520 | 6.1 | 140° | 8 | 34 | 79 | | | | | |
| CTW062D8 | 8,520 | 6.2 | 140° | 8 | 34 | 79 | | | | | |
| CTW063D8 | 8,520 | 6.3 | 140° | 8 | 34 | 79 | | | | | |
| CTW064D8 | 8,520 | 6.4 | 140° | 8 | 34 | 79 | | | | | |
| CTW065D8 | 8,520 | 6.5 | 140° | 8 | 34 | 79 | | | | | |
| CTW066D8 | 8,520 | 6.6 | 140° | 8 | 34 | 79 | | | | | |
| CTW067D8 | 8,520 | 6.7 | 140° | 8 | 34 | 79 | | | | | |
| CTW068D8 | 8,520 | 6.8 | 140° | 8 | 34 | 79 | | | | | |
| CTW069D8 | 8,520 | 6.9 | 140° | 8 | 34 | 79 | | | | | |
| CTW070D8 | 8,520 | 7 | 140° | 8 | 34 | 79 | | | | | |
| CTW071D8 | 8,520 | 7.1 | 140° | 8 | 41 | 79 | | | | | |
| CTW072D8 | 8,520 | 7.2 | 140° | 8 | 41 | 79 | | | | | |
| CTW073D8 | 8,520 | 7.3 | 140° | 8 | 41 | 79 | | | | | |
| CTW074D8 | 8,520 | 7.4 | 140° | 8 | 41 | 79 | | | | | |
| CTW075D8 | 8,520 | 7.5 | 140° | 8 | 41 | 79 | | | | | |
| CTW076D8 | 8,520 | 7.6 | 140° | 8 | 41 | 79 | | | | | |
| CTW077D8 | 8,520 | 7.7 | 140° | 8 | 41 | 79 | | | | | |
| CTW078D8 | 8,520 | 7.8 | 140° | 8 | 41 | 79 | | | | | |
| CTW079D8 | 8,520 | 7.9 | 140° | 8 | 41 | 79 | | | | | |
| CTW080D8 | 8,520 | 8 | 140° | 8 | 41 | 79 | | | | | |
| CTW081D10 | 12,070 | 8.1 | 140° | 10 | 47 | 89 | | | | | |
| CTW082D10 | 12,070 | 8.2 | 140° | 10 | 47 | 89 | | | | | |
| CTW083D10 | 12,070 | 8.3 | 140° | 10 | 47 | 89 | | | | | |
| CTW084D10 | 12,070 | 8.4 | 140° | 10 | 47 | 89 | | | | | |
| CTW085D10 | 12,070 | 8.5 | 140° | 10 | 47 | 89 | | | | | |
| CTW086D10 | 12,070 | 8.6 | 140° | 10 | 47 | 89 | | | | | |
| CTW087D10 | 12,070 | 8.7 | 140° | 10 | 47 | 89 | | | | | |
| CTW088D10 | 12,070 | 8.8 | 140° | 10 | 47 | 89 | | | | | |
| CTW089D10 | 12,070 | 8.9 | 140° | 10 | 47 | 89 | | | | | |
| CTW090D10 | 12,070 | 9 | 140° | 10 | 47 | 89 | | | | | |
| CTW091D10 | 12,070 | 9.1 | 140° | 10 | 47 | 89 | | | | | |
| CTW092D10 | 12,070 | 9.2 | 140° | 10 | 47 | 89 | | | | | |
| CTW0925D10 | 12,070 | 9.25 | 140° | 10 | 47 | 89 | | | | | |
| CTW093D10 | 12,070 | 9.3 | 140° | 10 | 47 | 89 | | | | | |
| CTW094D10 | 12,070 | 9.4 | 140° | 10 | 47 | 89 | | | | | |
| CTW095D10 | 12,070 | 9.5 | 140° | 10 | 47 | 89 | | | | | |
| CTW096D10 | 12,070 | 9.6 | 140° | 10 | 47 | 89 | | | | | |
| CTW097D10 | 12,070 | 9.7 | 140° | 10 | 47 | 89 | | | | | |
| CTW098D10 | 12,070 | 9.8 | 140° | 10 | 47 | 89 | | | | | |
| CTW099D10 | 12,070 | 9.9 | 140° | 10 | 47 | 89 | | | | | |
| CTW100D10 | 12,070 | 10 | 140° | 10 | 47 | 89 | | | | | |
| CTW101D12 | 16,920 | 10.1 | 140° | 12 | 55 | 102 | | | | | |
| CTW102D12 | 16,920 | 10.2 | 140° | 12 | 55 | 102 | | | | | |
| CTW103D12 | 16,920 | 10.3 | 140° | 12 | 55 | 102 | | | | | |
| CTW104D12 | 16,920 | 10.4 | 140° | 12 | 55 | 102 | | | | | |
| CTW105D12 | 16,920 | 10.5 | 140° | 12 | 55 | 102 | | | | | |
| CTW106D12 | 16,920 | 10.6 | 140° | 12 | 55 | 102 | | | | | |
| CTW107D12 | 16,920 | 10.7 | 140° | 12 | 55 | 102 | | | | | |
| CTW108D12 | 16,920 | 10.8 | 140° | 12 | 55 | 102 | | | | | |
| CTW109D12 | 16,920 | 10.9 | 140° | 12 | 55 | 102 | | | | | |

79

| CTW3Dシリーズ 型番 | 定価 | 刃径 | 刃先角度 | シャンク(h6) | 刃長 | 全長 | — | — | — | — | — |
|--------------|--------|------|------|----------|----|-----|---|---|---|---|---|
| CTW110D12 | 16,920 | 11 | 140° | 12 | 55 | 102 | | | | | |
| CTW111D12 | 16,920 | 11.1 | 140° | 12 | 55 | 102 | | | | | |
| CTW112D12 | 16,920 | 11.2 | 140° | 12 | 55 | 102 | | | | | |

| | | | | | | | | | | | |
|-----------|--------|------|------|----|----|-----|--|--|--|--|--|
| CTW113D12 | 16,920 | 11.3 | 140° | 12 | 55 | 102 | | | | | |
| CTW114D12 | 16,920 | 11.4 | 140° | 12 | 55 | 102 | | | | | |
| CTW115D12 | 16,920 | 11.5 | 140° | 12 | 55 | 102 | | | | | |
| CTW116D12 | 16,920 | 11.6 | 140° | 12 | 55 | 102 | | | | | |
| CTW117D12 | 16,920 | 11.7 | 140° | 12 | 55 | 102 | | | | | |
| CTW118D12 | 16,920 | 11.8 | 140° | 12 | 55 | 102 | | | | | |
| CTW119D12 | 16,920 | 11.9 | 140° | 12 | 55 | 102 | | | | | |
| CTW120D12 | 16,920 | 12 | 140° | 12 | 55 | 102 | | | | | |
| CTW125D14 | 22,270 | 12.5 | 140° | 14 | 60 | 107 | | | | | |
| CTW128D14 | 22,270 | 12.8 | 140° | 14 | 60 | 107 | | | | | |
| CTW130D14 | 22,270 | 13 | 140° | 14 | 60 | 107 | | | | | |
| CTW135D14 | 22,270 | 13.5 | 140° | 14 | 60 | 107 | | | | | |
| CTW138D14 | 22,270 | 13.8 | 140° | 14 | 60 | 107 | | | | | |
| CTW140D14 | 22,270 | 14 | 140° | 14 | 60 | 107 | | | | | |
| CTW145D16 | 28,720 | 14.5 | 140° | 16 | 65 | 115 | | | | | |
| CTW148D16 | 28,720 | 14.8 | 140° | 16 | 65 | 115 | | | | | |
| CTW150D16 | 28,720 | 15 | 140° | 16 | 65 | 115 | | | | | |
| CTW155D16 | 28,720 | 15.5 | 140° | 16 | 65 | 115 | | | | | |
| CTW158D16 | 28,720 | 15.8 | 140° | 16 | 65 | 115 | | | | | |
| CTW160D16 | 28,720 | 16 | 140° | 16 | 65 | 115 | | | | | |
| CTW165D18 | 38,120 | 16.5 | 140° | 18 | 73 | 123 | | | | | |
| CTW168D18 | 38,120 | 16.8 | 140° | 18 | 73 | 123 | | | | | |
| CTW170D18 | 38,120 | 17 | 140° | 18 | 73 | 123 | | | | | |
| CTW175D18 | 38,120 | 17.5 | 140° | 18 | 73 | 123 | | | | | |
| CTW178D18 | 38,120 | 17.8 | 140° | 18 | 73 | 123 | | | | | |
| CTW180D18 | 38,120 | 18 | 140° | 18 | 73 | 123 | | | | | |
| CTW185D20 | 46,140 | 18.5 | 140° | 20 | 79 | 131 | | | | | |
| CTW188D20 | 46,140 | 18.8 | 140° | 20 | 79 | 131 | | | | | |
| CTW190D20 | 46,140 | 19 | 140° | 20 | 79 | 131 | | | | | |
| CTW195D20 | 46,140 | 19.5 | 140° | 20 | 79 | 131 | | | | | |
| CTW198D20 | 46,140 | 19.8 | 140° | 20 | 79 | 131 | | | | | |
| CTW200D20 | 46,140 | 20 | 140° | 20 | 79 | 131 | | | | | |