

SEC-マルチドリル SMD型

SEC-MULTIDRILL SMD series 第24版



- フランジ付きホルダを148型番拡充
- 軟鋼、ステンレス鋼加工に最適なMSL型をラインアップ
- 12Dホルダにより、深穴、突出しの長い加工にも対応
- 用途に応じて刃先を選択可能
- 再研磨可能な刃先 (MFS型は除く)

刃径ラインアップ (ドリルヘッド)

| | | | | | | | |
|-----|-----------------|---|---|---|---|---|---|
| MTL | φ12.0 ~ φ42.5mm | P | M | K | N | S | H |
| MSL | φ12.0 ~ φ30.8mm | P | M | K | N | S | H |
| MFS | φ12.0 ~ φ30.0mm | P | M | K | N | S | H |
| MB | φ24.5 ~ φ26.7mm | P | M | K | N | S | H |



MSL型



■ 特長

独自の放射状セレーション締結により、高精度かつ高強度のヘッド交換ドリルです。ヘッド交換により、常に新しい刃先で使用でき、生産性、コスト低減および工具管理の簡素化に貢献できます。また再研磨代を1.5mm~3mm程度確保しており、更に工具コストの低減が可能です。

※MTL型/MSL型/MFL型/MB型のみ再研磨可能

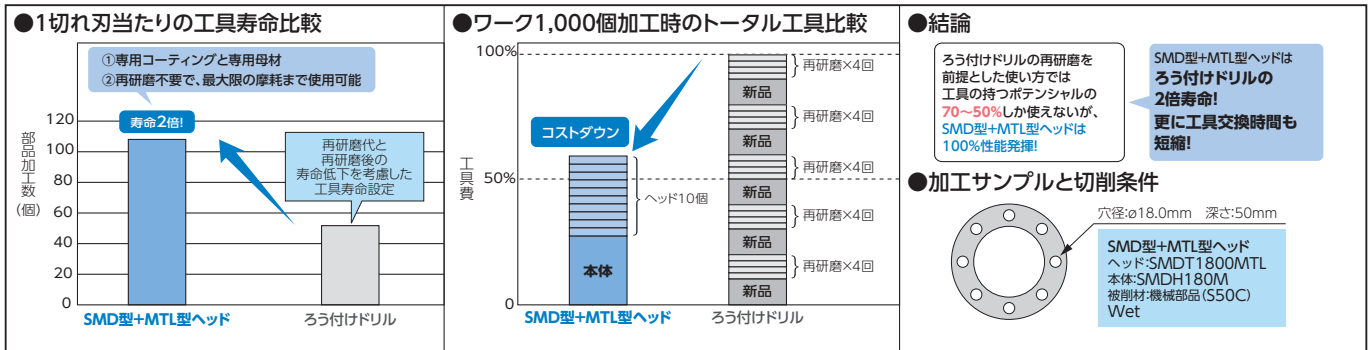
■ シリーズ構成

| ヘッド | 刃径(mm) | 用途 | L/D | 本体形式 | 本体刃径範囲(mm) |
|------|-------------|------------|------|-----------------|--|
| MTL型 | φ12.0-φ42.5 | 一般鋼 | 1.5D | 1.5D型 / 1.5DF型 | M型/L型 φ12.0-φ42.5 |
| | | | 3D | M型 / 3D型 / 3DF型 | |
| | | | 5D | L型 / 5D型 | D型 φ13.5-φ30.8 上記以外 φ12.0~φ30.8 |
| | | | 8D | D型 / 8D型 / 8DF型 | |
| | | | 12D | 12D型 | |
| MSL型 | φ12.0-φ30.8 | SUS/SS/FC用 | 1.5D | 1.5D型 / 1.5DF型 | D型 φ13.5-φ30.8 上記以外 φ12.0-φ30.8 |
| | | | 3D | M型 / 3D型 / 3DF型 | |
| | | | 5D | L型 / 5D型 | |
| | | | 8D | D型 / 8D型 / 8DF型 | |
| MFL型 | φ12.0-φ30.0 | 座ぐり | 1.5D | 1.5D型 / 1.5DF型* | φ12.0-φ30.0 |
| MB型 | φ24.5-φ26.7 | 橋梁 | 3D | B3型 | φ24.5-φ26.7 |

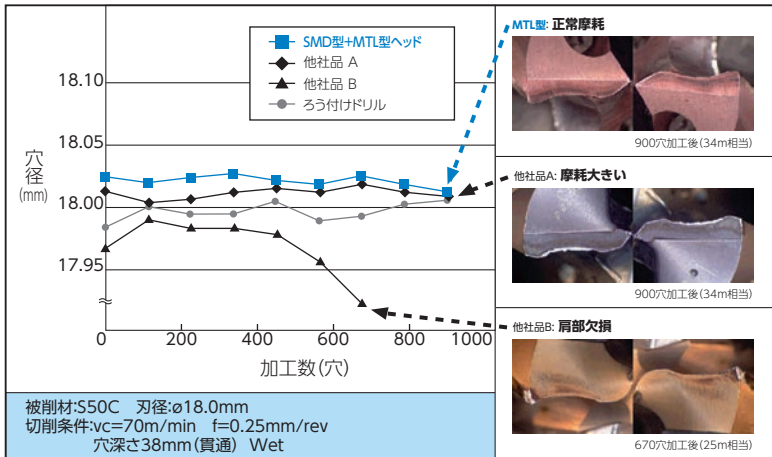
*MFS型は 3D/5D/8D/12D ホルダでも使用可能です。S型は-1.5DF型に名称が変更となりました。

MFS型 \rightarrow P16 MB型 \rightarrow P24

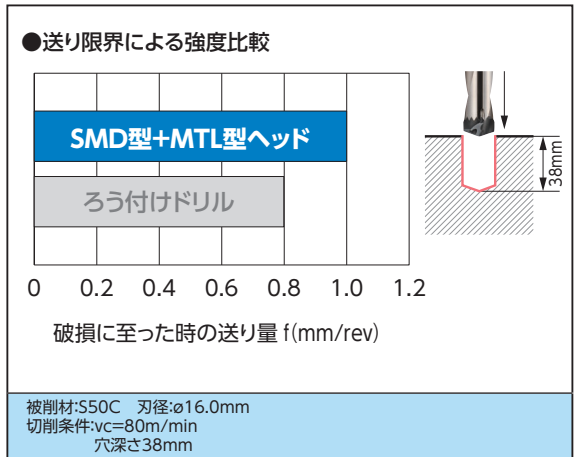
■ 工具寿命とコストダウン効果



■ 加工精度



■ 工具強度

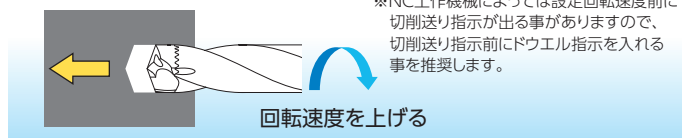
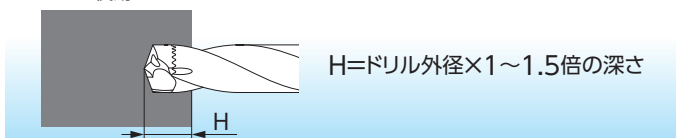


■ 8D、12D用 推奨加工方法

12D用本体の保持具はハイドロチャック、ミーリングチャック、コレットチャックを使用

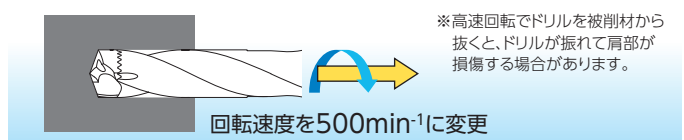
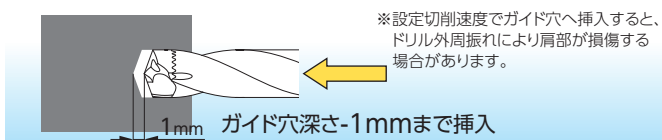
- ①SMDH○○○-1.5D(F)型(1.5D用本体)+MTL型、MSL型(ヘッド)にてガイド穴加工
- ガイド穴加工用の本体は1.5D用本体、ヘッドは8D、12D用と同じ刃径(同型番)のものをご使用ください。

- ③設定回転速度まで回転速度を上げ、その後切削送り



- ②8D、12D用本体+MTL型、MSL型(ヘッド)を低回転にてガイド穴へ挿入
- 回転速度:500min⁻¹ ●送り速度:1,000~2,000mm/min

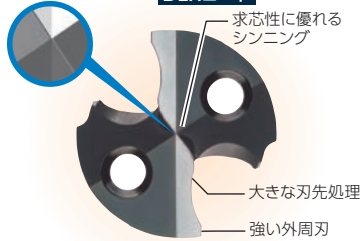
- ④加工後、回転速度を下げ、被削材よりドリルを抜く
- 回転速度:500min⁻¹ ●送り速度:1,000~2,000mm/min



MTL型 一般鋼の高能率加工に最適

X型シンニング

DEXコート

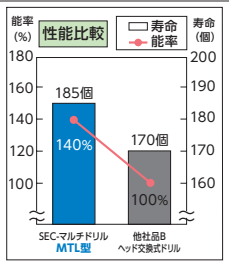


- **高い刃先強度**
大きな刃先処理により、切刃部の欠損を軽減。
- **安定した加工穴精度**
X型シンニングにより、食い付き時の求芯性に優れ安定した穴あけを実現。

■ 長寿命

寿命、能率ともに向上

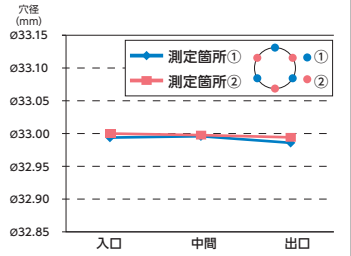
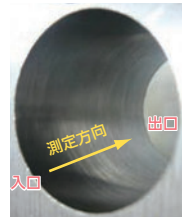
被削材：ハウジング (S20C)
切削工具：φ15×5D用
切削条件：vc=107m/min
f=0.3mm/rev
穴深さ：32mm×12穴



■ 加工精度

大径でも高い穴精度

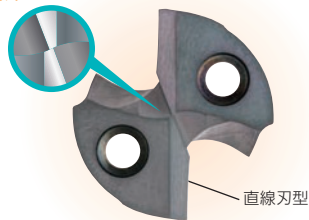
被削材：SM490 (建機用ベースプレート)
切削工具：φ33×5D用
切削条件：vc=120m/min
f=0.25mm/rev
切削油剤：エマルジョン



MSL型 軟鋼、ステンレス鋼などの安定加工を実現

特殊Rシンニング

NXコート



- **軟鋼・ステンレス鋼加工で圧倒的切れ味を發揮**
新設計の直線刃型と特殊Rシンニングにより切りくず処理性能の向上と安定した加工を実現。
- **安定長寿命を実現**
Absotech®技術を応用したNXコーティングにより耐欠損性、耐溶着性を向上。

■ 切りくず処理性能

MSL型

分断された切りくず

他社品 A

設備：立形MC BT50 内部給油2MPa
被削材：SS400 使用工具：φ14×5D用
切削条件：vc=80m/min f=0.2mm/rev H=50mm

■ 長寿命

MSL型: 継続可 (約45m)

従来品: 外周部欠損 (約15m)

MSL型: 従来品 (約30m)

従来品: 外周部損傷大 (約30m)

設備：立形MC BT50 内部給油2MPa
被削材：SUS304 使用工具：φ14×5D用
切削条件：vc=65m/min f=0.15mm/rev H=40mm

■ 推奨切削条件 (MSL型/MTL型)

(n: 回転速度 min⁻¹ vc: 切削速度 m/min f: 送り量 mm/rev)

| 被削材 | 軟鋼 (~250HB) | | 一般鋼 (250~320HB) | | 高硬度鋼 (45HRC) | ステンレス鋼 (~200HB) | ねずみ鋳鉄 | ダクタイル鋳鉄 | アルミニウム合金 |
|---------------|----------------|-----------------------|-----------------------|-----------------------|---------------------|----------------------|----------------------|---------------------------|---------------------------|
| | MSL型 | | MTL型 | MSL型 | MTL型 | MSL型 | MTL型/MSL型 | MTL型/MSL型 | (特殊刃型)* |
| 刃径 DC(mm) | 推奨ヘッド | | | | | | | | |
| φ16.0 | 下限 - 推奨 - 上限 | 下限 - 推奨 - 上限 | 下限 - 推奨 - 上限 | 下限 - 推奨 - 上限 | 下限 - 推奨 - 上限 | 下限 - 推奨 - 上限 | 下限 - 推奨 - 上限 | 下限 - 推奨 - 上限 | 下限 - 推奨 - 上限 |
| | n | 2,000 (1,400) | 2,000 (1,400) | 2,000 (1,400) | 1,200 (1,000) | 1,200 (1,000) | 1,400 (1,200) | 1,200 (1,000) | 4,800 (4,000) |
| | vc | 80-100-120 (50-70-80) | 70-100-120 (50-70-80) | 70-100-120 (50-70-80) | 40-60-90 (30-50-70) | 30-50-80 (30-50-60) | 50-70-90 (40-60-80) | 50-60-80 (40-50-70) | 200-240-260 (180-200-240) |
| φ20.0 | n | 1,600 (1,100) | 1,600 (1,100) | 1,600 (1,100) | 1,000 (800) | 1,100 (950) | 1,300 (1,100) | 1,100 (950) | 3,800 (3,200) |
| | vc | 80-100-120 (50-70-80) | 70-100-120 (50-70-80) | 70-100-120 (50-70-80) | 40-60-90 (30-50-70) | 30-60-90 (30-50-70) | 60-80-100 (50-70-90) | 50-70-90 (40-60-80) | 200-240-260 (180-200-240) |
| | f | 0.15-0.25-0.30 | 0.20-0.25-0.35 | 0.15-0.20-0.25 | 0.15-0.20-0.25 | 0.10-0.20-0.25 | 0.20-0.30-0.35 | 0.20-0.25-0.35 | 0.35-0.50-0.60 |
| φ30.8 | n | 1,000 (700) | 1,000 (700) | 1,000 (700) | 600 (500) | 700 (600) | 800 (700) | 700 (600) | 2,500 (2,000) |
| | vc | 80-100-120 (50-70-80) | 70-100-120 (50-70-80) | 70-100-120 (50-70-80) | 40-60-90 (30-50-70) | 30-60-90 (30-50-70) | 60-80-100 (50-70-90) | 50-70-90 (40-60-80) | 200-240-260 (180-200-240) |
| | f | 0.20-0.25-0.30 | 0.20-0.25-0.35 | 0.15-0.20-0.25 | 0.15-0.20-0.25 | 0.10-0.20-0.25 | 0.20-0.30-0.40 | 0.25-0.30-0.35 | 0.35-0.50-0.60 |
| 推奨ヘッド | 大径MTL型(φ31.0~) | | | | | | | | |
| φ31.0 ~ φ42.5 | n | 650 (520) | 650 (520) | 380 (300) | 450 (300) | 520 (450) | 450 (380) | 1,800 (1,500) | |
| | vc | 70-90-120 (50-70-80) | 70-90-120 (50-70-80) | 40-50-80 (30-40-60) | 40-60-80 (30-40-60) | 60-70-100 (50-60-90) | 50-60-90 (40-50-70) | 200-240-260 (180-200-240) | |
| | f | 0.25-0.35-0.45 | 0.25-0.30-0.40 | 0.15-0.25-0.30 | 0.20-0.25-0.30 | 0.25-0.35-0.45 | 0.25-0.30-0.35 | 0.35-0.50-0.60 | |

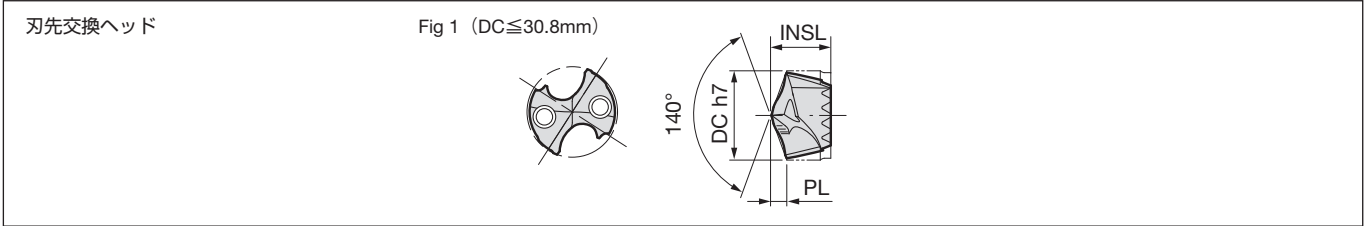
注記: 機械剛性やワーク剛性により切削送りなどの調整が必要です。

8D、12D用の推奨切削速度は()内数値を目安としてください。8D、12D用の使用前に同サイズのガイド穴加工を設けることを推奨します。

*アルミニウム合金用特殊刃型のご用命はお問合せ願います。



*h7公差は総合カタログN章一般資料編をご覧ください。



■ 刃先交換ヘッド MTL型 刃径φ12.0~17.3mm 寸法(mm)

| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig |
|-------|----|---------------|-----------|-------|----------|------|
| 12.0 | ● | SMDT 1200 MTL | 9.1 | 2.2 | SMDH120□ | 1 |
| 12.1 | ● | SMDT 1210 MTL | | | | 1 |
| 12.2 | ● | SMDT 1220 MTL | | 1 | | |
| 12.3 | ● | SMDT 1230 MTL | | 1 | | |
| 12.4 | ● | SMDT 1240 MTL | | 2.3 | | 1 |
| 12.5 | ● | SMDT 1250 MTL | 9.4 | 2.3 | SMDH125□ | 1 |
| 12.6 | ● | SMDT 1260 MTL | | | | 1 |
| 12.7 | ● | SMDT 1270 MTL | | | | 1 |
| 12.8 | ● | SMDT 1280 MTL | | | | 1 |
| 12.9 | ● | SMDT 1290 MTL | | | | 1 |
| 13.0 | ● | SMDT 1300 MTL | | | | 1 |
| 13.1 | ● | SMDT 1310 MTL | 9.7 | 2.4 | SMDH130□ | 1 |
| 13.2 | ● | SMDT 1320 MTL | | | | 1 |
| 13.3 | ● | SMDT 1330 MTL | | | | 1 |
| 13.4 | ● | SMDT 1340 MTL | | | | 1 |
| 13.5 | ● | SMDT 1350 MTL | | | | 1 |
| 13.6 | ● | SMDT 1360 MTL | | | | 1 |
| 13.7 | ● | SMDT 1370 MTL | 10.3 | 2.5 | SMDH140□ | 1 |
| 13.8 | ● | SMDT 1380 MTL | | | | 1 |
| 13.9 | ● | SMDT 1390 MTL | | | | 1 |
| 14.0 | ● | SMDT 1400 MTL | | | | 1 |
| 14.1 | ● | SMDT 1410 MTL | | | | 1 |
| 14.2 | ● | SMDT 1420 MTL | | | | 1 |
| 14.3 | ● | SMDT 1430 MTL | 11.0 | 2.6 | SMDH150□ | 1 |
| 14.4 | ● | SMDT 1440 MTL | | | | 1 |
| 14.5 | ● | SMDT 1450 MTL | | | | 1 |
| 14.6 | ● | SMDT 1460 MTL | | | | 1 |
| 14.7 | ● | SMDT 1470 MTL | | | | 1 |
| 14.8 | ● | SMDT 1480 MTL | | | | 1 |
| 14.9 | ● | SMDT 1490 MTL | 11.6 | 2.7 | SMDH160□ | 1 |
| 15.0 | ● | SMDT 1500 MTL | | | | 1 |
| 15.1 | ● | SMDT 1510 MTL | | | | 1 |
| 15.2 | ● | SMDT 1520 MTL | | | | 1 |
| 15.3 | ● | SMDT 1530 MTL | | | | 1 |
| 15.4 | ● | SMDT 1540 MTL | | | | 1 |
| 15.5 | ● | SMDT 1550 MTL | 12.2 | 2.8 | SMDH170□ | 1 |
| 15.6 | ● | SMDT 1560 MTL | | | | 1 |
| 15.7 | ● | SMDT 1570 MTL | | | | 1 |
| 15.8 | ● | SMDT 1580 MTL | | | | 1 |
| 15.9 | ● | SMDT 1590 MTL | | | | 1 |
| 16.0 | ● | SMDT 1600 MTL | | | | 1 |
| 16.1 | ● | SMDT 1610 MTL | 11.6 | 2.9 | SMDH160□ | 1 |
| 16.2 | ● | SMDT 1620 MTL | | | | 1 |
| 16.3 | ● | SMDT 1630 MTL | | | | 1 |
| 16.4 | ● | SMDT 1640 MTL | | | | 1 |
| 16.5 | ● | SMDT 1650 MTL | | | | 1 |
| 16.6 | ● | SMDT 1660 MTL | | | | 12.2 |
| 16.7 | ● | SMDT 1670 MTL | 1 | | | |
| 16.8 | ● | SMDT 1680 MTL | 1 | | | |
| 16.9 | ● | SMDT 1690 MTL | 1 | | | |
| 17.0 | ● | SMDT 1700 MTL | 1 | | | |
| 17.1 | ● | SMDT 1710 MTL | 1 | | | |
| 17.2 | ● | SMDT 1720 MTL | 12.2 | 3.1 | SMDH170□ | 1 |
| 17.3 | ● | SMDT 1730 MTL | | | | 1 |

材種 ACX70 (刃径 DC : 12.0 ~ 30.8) ACX80 (刃径 DC : 30.9 ~ 42.5)

推奨切削条件 適用ホルダ

■ 刃先交換ヘッド MTL型 刃径φ17.4~22.7mm 寸法(mm)

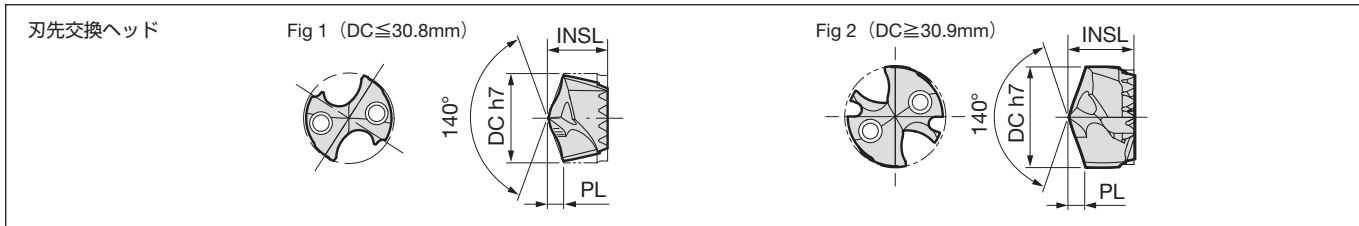
| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig | | | |
|-------|----|---------------|-----------|-------|----------|------|-----|----------|---|
| 17.4 | ● | SMDT 1740 MTL | 12.2 | 3.2 | SMDH170□ | 1 | | | |
| 17.5 | ● | SMDT 1750 MTL | | | | 1 | | | |
| 17.6 | ● | SMDT 1760 MTL | 12.9 | 3.2 | SMDH180□ | 1 | | | |
| 17.7 | ● | SMDT 1770 MTL | | | | 1 | | | |
| 17.8 | ● | SMDT 1780 MTL | | | | 1 | | | |
| 17.9 | ● | SMDT 1790 MTL | | 3.3 | | 1 | | | |
| 18.0 | ● | SMDT 1800 MTL | | | | 1 | | | |
| 18.1 | ● | SMDT 1810 MTL | | | | 1 | | | |
| 18.2 | ● | SMDT 1820 MTL | 13.5 | 3.4 | SMDH190□ | 1 | | | |
| 18.3 | ● | SMDT 1830 MTL | | | | 1 | | | |
| 18.4 | ● | SMDT 1840 MTL | | | | 1 | | | |
| 18.5 | ● | SMDT 1850 MTL | | | | 1 | | | |
| 18.6 | ● | SMDT 1860 MTL | | | | 14.1 | 3.4 | SMDH200□ | 1 |
| 18.7 | ● | SMDT 1870 MTL | | | | | | | 1 |
| 18.8 | ● | SMDT 1880 MTL | 1 | | | | | | |
| 18.9 | ● | SMDT 1890 MTL | 1 | | | | | | |
| 19.0 | ● | SMDT 1900 MTL | 14.8 | 3.5 | SMDH210□ | | | | 1 |
| 19.1 | ● | SMDT 1910 MTL | | | | | | | 1 |
| 19.2 | ● | SMDT 1920 MTL | | | | 1 | | | |
| 19.3 | ● | SMDT 1930 MTL | | | | 1 | | | |
| 19.4 | ● | SMDT 1940 MTL | | | | 1 | | | |
| 19.5 | ● | SMDT 1950 MTL | | | | 1 | | | |
| 19.6 | ● | SMDT 1960 MTL | 15.0 | 3.6 | SMDH220□ | 1 | | | |
| 19.7 | ● | SMDT 1970 MTL | | | | 1 | | | |
| 19.8 | ● | SMDT 1980 MTL | | | | 1 | | | |
| 19.9 | ● | SMDT 1990 MTL | | | | 1 | | | |
| 20.0 | ● | SMDT 2000 MTL | | | | 14.1 | 3.7 | SMDH200□ | 1 |
| 20.1 | ● | SMDT 2010 MTL | | | | | | | 1 |
| 20.2 | ● | SMDT 2020 MTL | 1 | | | | | | |
| 20.3 | ● | SMDT 2030 MTL | 14.8 | 3.7 | SMDH210□ | | | | 1 |
| 20.4 | ● | SMDT 2040 MTL | | | | | | | 1 |
| 20.5 | ● | SMDT 2050 MTL | | | | | | | 1 |
| 20.6 | ● | SMDT 2060 MTL | | | | 15.0 | 3.8 | SMDH220□ | 1 |
| 20.7 | ● | SMDT 2070 MTL | | | | | | | 1 |
| 20.8 | ● | SMDT 2080 MTL | | | | | | | 1 |
| 20.9 | ● | SMDT 2090 MTL | 15.0 | 3.9 | SMDH220□ | | | | 1 |
| 21.0 | ● | SMDT 2100 MTL | | | | | | | 1 |
| 21.1 | ● | SMDT 2110 MTL | | | | | | | 1 |
| 21.2 | ● | SMDT 2120 MTL | | | | 15.0 | 3.9 | SMDH220□ | 1 |
| 21.3 | ● | SMDT 2130 MTL | | | | | | | 1 |
| 21.4 | ● | SMDT 2140 MTL | | | | | | | 1 |
| 21.5 | ● | SMDT 2150 MTL | 15.0 | 4.0 | SMDH220□ | | | | 1 |
| 21.6 | ● | SMDT 2160 MTL | | | | | | | 1 |
| 21.7 | ● | SMDT 2170 MTL | | | | | | | 1 |
| 21.8 | ● | SMDT 2180 MTL | | | | 15.0 | 4.1 | SMDH220□ | 1 |
| 21.9 | ● | SMDT 2190 MTL | | | | | | | 1 |
| 22.0 | ● | SMDT 2200 MTL | | | | | | | 1 |
| 22.1 | ● | SMDT 2210 MTL | 15.0 | 4.1 | SMDH220□ | | | | 1 |
| 22.2 | ● | SMDT 2220 MTL | | | | | | | 1 |
| 22.3 | ● | SMDT 2230 MTL | | | | | | | 1 |
| 22.4 | ● | SMDT 2240 MTL | | | | 1 | | | |
| 22.5 | ● | SMDT 2250 MTL | | | | 1 | | | |
| 22.6 | ● | SMDT 2260 MTL | | | | 1 | | | |
| 22.7 | ● | SMDT 2270 MTL | 1 | | | | | | |

材種 ACX70 (刃径 DC : 12.0 ~ 30.8) ACX80 (刃径 DC : 30.9 ~ 42.5)

推奨切削条件 適用ホルダ



*h7公差は総合カタログN章一般資料編をご覧ください。



■ 刃先交換ヘッド MTL型 刃径φ22.8~28.1mm 寸法(mm)

| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig |
|-------|----|---------------|-----------|-------|----------|-----|
| 22.8 | ● | SMDT 2280 MTL | 15.0 | 4.1 | SMDH220□ | 1 |
| 22.9 | ● | SMDT 2290 MTL | 15.1 | 4.2 | SMDH230□ | 1 |
| 23.0 | ● | SMDT 2300 MTL | | | | 1 |
| 23.1 | ● | SMDT 2310 MTL | | | | 1 |
| 23.2 | ● | SMDT 2320 MTL | | | | 1 |
| 23.3 | ● | SMDT 2330 MTL | | | | 1 |
| 23.4 | ● | SMDT 2340 MTL | | | | 1 |
| 23.5 | ● | SMDT 2350 MTL | | | | 1 |
| 23.6 | ● | SMDT 2360 MTL | | | | 1 |
| 23.7 | ● | SMDT 2370 MTL | | | | 1 |
| 23.8 | ● | SMDT 2380 MTL | | | | 1 |
| 23.9 | ● | SMDT 2390 MTL | 15.4 | 4.3 | SMDH240□ | 1 |
| 24.0 | ● | SMDT 2400 MTL | | | | 1 |
| 24.1 | ● | SMDT 2410 MTL | | | | 1 |
| 24.2 | ● | SMDT 2420 MTL | | | | 1 |
| 24.3 | ● | SMDT 2430 MTL | | | | 1 |
| 24.4 | ● | SMDT 2440 MTL | | | | 1 |
| 24.5 | ● | SMDT 2450 MTL | | | | 1 |
| 24.6 | ● | SMDT 2460 MTL | | | | 1 |
| 24.7 | ● | SMDT 2470 MTL | | | | 1 |
| 24.8 | ● | SMDT 2480 MTL | | | | 1 |
| 24.9 | ● | SMDT 2490 MTL | 15.8 | 4.5 | SMDH250□ | 1 |
| 25.0 | ● | SMDT 2500 MTL | | | | 1 |
| 25.1 | ● | SMDT 2510 MTL | | | | 1 |
| 25.2 | ● | SMDT 2520 MTL | | | | 1 |
| 25.3 | ● | SMDT 2530 MTL | | | | 1 |
| 25.4 | ● | SMDT 2540 MTL | | | | 1 |
| 25.5 | ● | SMDT 2550 MTL | | | | 1 |
| 25.6 | ● | SMDT 2560 MTL | | | | 1 |
| 25.7 | ● | SMDT 2570 MTL | | | | 1 |
| 25.8 | ● | SMDT 2580 MTL | | | | 1 |
| 25.9 | ● | SMDT 2590 MTL | 16.4 | 4.7 | SMDH260□ | 1 |
| 26.0 | ● | SMDT 2600 MTL | | | | 1 |
| 26.1 | ● | SMDT 2610 MTL | | | | 1 |
| 26.2 | ● | SMDT 2620 MTL | | | | 1 |
| 26.3 | ● | SMDT 2630 MTL | | | | 1 |
| 26.4 | ● | SMDT 2640 MTL | | | | 1 |
| 26.5 | ● | SMDT 2650 MTL | | | | 1 |
| 26.6 | ● | SMDT 2660 MTL | | | | 1 |
| 26.7 | ● | SMDT 2670 MTL | | | | 1 |
| 26.8 | ● | SMDT 2680 MTL | | | | 1 |
| 26.9 | ● | SMDT 2690 MTL | 17.1 | 4.9 | SMDH270□ | 1 |
| 27.0 | ● | SMDT 2700 MTL | | | | 1 |
| 27.1 | ● | SMDT 2710 MTL | | | | 1 |
| 27.2 | ● | SMDT 2720 MTL | | | | 1 |
| 27.3 | ● | SMDT 2730 MTL | | | | 1 |
| 27.4 | ● | SMDT 2740 MTL | | | | 1 |
| 27.5 | ● | SMDT 2750 MTL | | | | 1 |
| 27.6 | ● | SMDT 2760 MTL | | | | 1 |
| 27.7 | ● | SMDT 2770 MTL | | | | 1 |
| 27.8 | ● | SMDT 2780 MTL | | | | 1 |
| 27.9 | ● | SMDT 2790 MTL | 17.7 | 5.1 | SMDH280□ | 1 |
| 28.0 | ● | SMDT 2800 MTL | | | | 1 |
| 28.1 | ● | SMDT 2810 MTL | | | | 1 |

材種 ACX70 (刃径 DC : 12.0 ~ 30.8) ACX80 (刃径 DC : 30.9 ~ 42.5)

推奨切削条件 適用ホルダ

■ 刃先交換ヘッド MTL型 刃径φ28.2~42.5mm 寸法(mm)

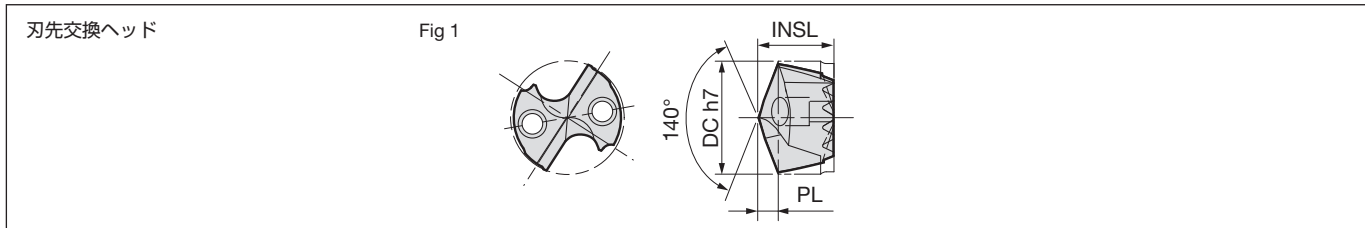
| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig | | | | |
|-------|----|---------------|-----------|-------|----------|------|----------|----------|------|-----|
| 28.2 | ● | SMDT 2820 MTL | 17.7 | 5.1 | SMDH280□ | 1 | | | | |
| 28.3 | ● | SMDT 2830 MTL | | 5.2 | | 1 | | | | |
| 28.4 | ● | SMDT 2840 MTL | | 5.2 | | 1 | | | | |
| 28.5 | ● | SMDT 2850 MTL | | 5.2 | | 1 | | | | |
| 28.6 | ● | SMDT 2860 MTL | | 5.2 | | 1 | | | | |
| 28.7 | ● | SMDT 2870 MTL | | 5.2 | | 1 | | | | |
| 28.8 | ● | SMDT 2880 MTL | | 5.2 | | 1 | | | | |
| 28.9 | ● | SMDT 2890 MTL | | 18.3 | | 5.3 | SMDH290□ | 1 | | |
| 29.0 | ● | SMDT 2900 MTL | 1 | | | | | | | |
| 29.1 | ● | SMDT 2910 MTL | 1 | | | | | | | |
| 29.2 | ● | SMDT 2920 MTL | 1 | | | | | | | |
| 29.3 | ● | SMDT 2930 MTL | 1 | | | | | | | |
| 29.4 | ● | SMDT 2940 MTL | 1 | | | | | | | |
| 29.5 | ● | SMDT 2950 MTL | 1 | | | | | | | |
| 29.6 | ● | SMDT 2960 MTL | 5.4 | | 1 | | | | | |
| 29.7 | ● | SMDT 2970 MTL | 5.4 | | 1 | | | | | |
| 29.8 | ● | SMDT 2980 MTL | 5.4 | | 1 | | | | | |
| 29.9 | ● | SMDT 2990 MTL | 19.0 | 5.4 | SMDH300□ | 1 | | | | |
| 30.0 | ● | SMDT 3000 MTL | | | | 1 | | | | |
| 30.1 | ● | SMDT 3010 MTL | | | | 1 | | | | |
| 30.2 | ● | SMDT 3020 MTL | | | | 5.5 | 1 | | | |
| 30.3 | ● | SMDT 3030 MTL | | | | 5.5 | 1 | | | |
| 30.4 | ● | SMDT 3040 MTL | | | | 5.5 | 1 | | | |
| 30.5 | ● | SMDT 3050 MTL | | | | 5.5 | 1 | | | |
| 30.6 | ● | SMDT 3060 MTL | | | | 5.6 | 1 | | | |
| 30.7 | ● | SMDT 3070 MTL | | | | 5.6 | 1 | | | |
| 30.8 | ● | SMDT 3080 MTL | | | | 5.6 | 1 | | | |
| 31.0 | ● | SMDT 3100 MTL | 21.0 | 5.6 | SMDH320□ | 2 | | | | |
| 31.5 | ● | SMDT 3150 MTL | | | | 5.7 | 2 | | | |
| 32.0 | ● | SMDT 3200 MTL | | | | 5.8 | 2 | | | |
| 32.5 | ● | SMDT 3250 MTL | | | | 5.9 | 2 | | | |
| 33.0 | ● | SMDT 3300 MTL | | | | 6.0 | 2 | | | |
| 33.5 | ● | SMDT 3350 MTL | | | | 6.1 | 2 | | | |
| 34.0 | ● | SMDT 3400 MTL | | | | 23.0 | 6.2 | SMDH335□ | 2 | |
| 34.5 | ● | SMDT 3450 MTL | | | | | | | 6.3 | 2 |
| 35.0 | ● | SMDT 3500 MTL | | | | | | | 6.4 | 2 |
| 35.5 | ● | SMDT 3550 MTL | | | | | | | 6.5 | 2 |
| 36.0 | ● | SMDT 3600 MTL | 25.0 | 6.6 | SMDH365□ | 2 | | | | |
| 36.5 | ● | SMDT 3650 MTL | | | | 6.6 | 2 | | | |
| 37.0 | ● | SMDT 3700 MTL | | | | 23.0 | 6.7 | SMDH380□ | 2 | |
| 37.5 | ● | SMDT 3750 MTL | | | | | | | 6.8 | 2 |
| 38.0 | ● | SMDT 3800 MTL | | | | | | | 6.9 | 2 |
| 38.5 | ● | SMDT 3850 MTL | | | | 27.0 | 7.0 | SMDH395□ | 2 | |
| 39.0 | ● | SMDT 3900 MTL | | | | | | | 7.1 | 2 |
| 39.5 | ● | SMDT 3950 MTL | | | | | | | 7.2 | 2 |
| 40.0 | ● | SMDT 4000 MTL | | | | | | | 27.0 | 7.3 |
| 40.5 | ● | SMDT 4050 MTL | | | | 7.4 | 2 | | | |
| 41.0 | ● | SMDT 4100 MTL | 7.5 | 2 | | | | | | |
| 41.5 | ● | SMDT 4150 MTL | 27.0 | 7.6 | SMDH425□ | 2 | | | | |
| 42.0 | ● | SMDT 4200 MTL | | | | 7.6 | 2 | | | |
| 42.5 | ● | SMDT 4250 MTL | | | | 7.7 | 2 | | | |

材種 ACX70 (刃径 DC : 12.0 ~ 30.8) ACX80 (刃径 DC : 30.9 ~ 42.5)

推奨切削条件 適用ホルダ



*h7公差は総合カタログN章一般資料編をご覧ください。



■ 刃先交換ヘッド MSL型 刃径φ12.0~17.3mm 寸法(mm)

| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig | |
|-------|----|---------------|-----------|-------|----------|-----|---|
| 12.0 | ● | SMDT 1200 MSL | 9.1 | 2.2 | SMDH120□ | 1 | |
| 12.1 | ● | SMDT 1210 MSL | | | | 1 | |
| 12.2 | ● | SMDT 1220 MSL | | 1 | | | |
| 12.3 | ● | SMDT 1230 MSL | | 1 | | | |
| 12.4 | ● | SMDT 1240 MSL | | 2.3 | | 1 | |
| 12.5 | ● | SMDT 1250 MSL | 9.4 | 2.3 | SMDH125□ | 1 | |
| 12.6 | ● | SMDT 1260 MSL | | | | 1 | |
| 12.7 | ● | SMDT 1270 MSL | | | | 1 | |
| 12.8 | ● | SMDT 1280 MSL | | | | 1 | |
| 12.9 | ● | SMDT 1290 MSL | | | | 1 | |
| 13.0 | ● | SMDT 1300 MSL | | | | 1 | |
| 13.1 | ● | SMDT 1310 MSL | 9.7 | 2.4 | SMDH130□ | 1 | |
| 13.2 | ● | SMDT 1320 MSL | | | | 1 | |
| 13.3 | ● | SMDT 1330 MSL | | | | 1 | |
| 13.4 | ● | SMDT 1340 MSL | | | | 1 | |
| 13.5 | ● | SMDT 1350 MSL | 10.3 | 2.5 | SMDH140□ | 1 | |
| 13.6 | ● | SMDT 1360 MSL | | | | 1 | |
| 13.7 | ● | SMDT 1370 MSL | | | | 1 | |
| 13.8 | ● | SMDT 1380 MSL | | | | 1 | |
| 13.9 | ● | SMDT 1390 MSL | | | | 1 | |
| 14.0 | ● | SMDT 1400 MSL | | | | 1 | |
| 14.1 | ● | SMDT 1410 MSL | | 2.6 | | 1 | 1 |
| 14.2 | ● | SMDT 1420 MSL | | | | | |
| 14.3 | ● | SMDT 1430 MSL | | | | | |
| 14.4 | ● | SMDT 1440 MSL | | | | | |
| 14.5 | ● | SMDT 1450 MSL | | | | | |
| 14.6 | ● | SMDT 1460 MSL | | | | | |
| 14.7 | ● | SMDT 1470 MSL | 1 | | | | |
| 14.8 | ● | SMDT 1480 MSL | 1 | | | | |
| 14.9 | ● | SMDT 1490 MSL | 1 | | | | |
| 15.0 | ● | SMDT 1500 MSL | 2.8 | 1 | 1 | | |
| 15.1 | ● | SMDT 1510 MSL | | | | | |
| 15.2 | ● | SMDT 1520 MSL | | | | | |
| 15.3 | ● | SMDT 1530 MSL | | | | | |
| 15.4 | ● | SMDT 1540 MSL | | | | | |
| 15.5 | ● | SMDT 1550 MSL | | | | | |
| 15.6 | ● | SMDT 1560 MSL | 11.6 | 2.8 | SMDH160□ | 1 | |
| 15.7 | ● | SMDT 1570 MSL | | | | 1 | |
| 15.8 | ● | SMDT 1580 MSL | | | | 1 | |
| 15.9 | ● | SMDT 1590 MSL | | | | 1 | |
| 16.0 | ● | SMDT 1600 MSL | | 2.9 | | 1 | 1 |
| 16.1 | ● | SMDT 1610 MSL | | | | | |
| 16.2 | ● | SMDT 1620 MSL | | | | | |
| 16.3 | ● | SMDT 1630 MSL | | | | | |
| 16.4 | ● | SMDT 1640 MSL | | | | | |
| 16.5 | ● | SMDT 1650 MSL | | | | | |
| 16.6 | ● | SMDT 1660 MSL | 12.2 | 3.0 | SMDH170□ | 1 | |
| 16.7 | ● | SMDT 1670 MSL | | | | 1 | |
| 16.8 | ● | SMDT 1680 MSL | | | | 1 | |
| 16.9 | ● | SMDT 1690 MSL | | | | 1 | |
| 17.0 | ● | SMDT 1700 MSL | | 3.1 | | 1 | 1 |
| 17.1 | ● | SMDT 1710 MSL | | | | | |
| 17.2 | ● | SMDT 1720 MSL | | | | | |
| 17.3 | ● | SMDT 1730 MSL | | | | | |

材種 ACT100 推奨切削条件 P3 適用ホルダ P10

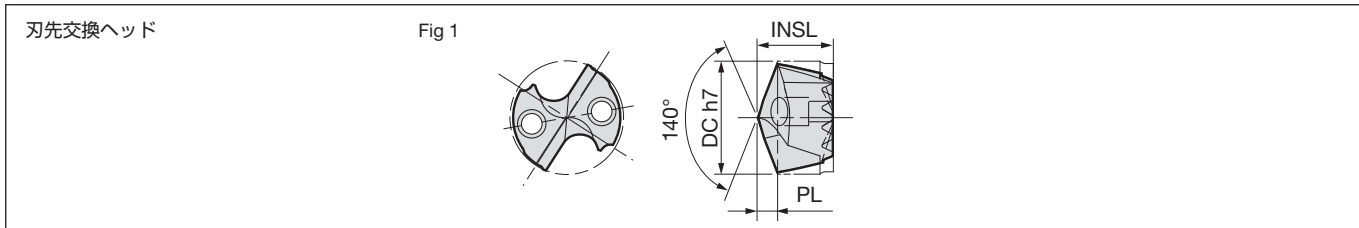
■ 刃先交換ヘッド MSL型 刃径φ17.4~22.7mm 寸法(mm)

| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig |
|-------|----|---------------|-----------|-------|----------|-----|
| 17.4 | ● | SMDT 1740 MSL | 12.2 | 3.2 | SMDH170□ | 1 |
| 17.5 | ● | SMDT 1750 MSL | | | | 1 |
| 17.6 | ● | SMDT 1760 MSL | 12.9 | 3.2 | SMDH180□ | 1 |
| 17.7 | ● | SMDT 1770 MSL | | | | 1 |
| 17.8 | ● | SMDT 1780 MSL | | | | 1 |
| 17.9 | ● | SMDT 1790 MSL | | | | 1 |
| 18.0 | ● | SMDT 1800 MSL | | 3.3 | | 1 |
| 18.1 | ● | SMDT 1810 MSL | | | | |
| 18.2 | ● | SMDT 1820 MSL | | | | |
| 18.3 | ● | SMDT 1830 MSL | | | | |
| 18.4 | ● | SMDT 1840 MSL | 3.4 | 1 | | |
| 18.5 | ● | SMDT 1850 MSL | | | | |
| 18.6 | ● | SMDT 1860 MSL | 13.5 | 3.4 | SMDH190□ | 1 |
| 18.7 | ● | SMDT 1870 MSL | | | | 1 |
| 18.8 | ● | SMDT 1880 MSL | | | | 1 |
| 18.9 | ● | SMDT 1890 MSL | | | | 1 |
| 19.0 | ● | SMDT 1900 MSL | | 3.5 | | 1 |
| 19.1 | ● | SMDT 1910 MSL | | | | |
| 19.2 | ● | SMDT 1920 MSL | | | | |
| 19.3 | ● | SMDT 1930 MSL | | | | |
| 19.4 | ● | SMDT 1940 MSL | | | | |
| 19.5 | ● | SMDT 1950 MSL | 14.1 | 3.6 | SMDH200□ | 1 |
| 19.6 | ● | SMDT 1960 MSL | | | | 1 |
| 19.7 | ● | SMDT 1970 MSL | | | | 1 |
| 19.8 | ● | SMDT 1980 MSL | | | | 1 |
| 19.9 | ● | SMDT 1990 MSL | | 3.7 | | 1 |
| 20.0 | ● | SMDT 2000 MSL | | | | |
| 20.1 | ● | SMDT 2010 MSL | | | | |
| 20.2 | ● | SMDT 2020 MSL | | | | |
| 20.3 | ● | SMDT 2030 MSL | | | | |
| 20.4 | ● | SMDT 2040 MSL | | | | |
| 20.5 | ● | SMDT 2050 MSL | 14.8 | 3.7 | SMDH210□ | 1 |
| 20.6 | ● | SMDT 2060 MSL | | | | 1 |
| 20.7 | ● | SMDT 2070 MSL | | | | 1 |
| 20.8 | ● | SMDT 2080 MSL | | | | 1 |
| 20.9 | ● | SMDT 2090 MSL | | 3.8 | | 1 |
| 21.0 | ● | SMDT 2100 MSL | | | | |
| 21.1 | ● | SMDT 2110 MSL | | | | |
| 21.2 | ● | SMDT 2120 MSL | | | | |
| 21.3 | ● | SMDT 2130 MSL | | | | |
| 21.4 | ● | SMDT 2140 MSL | | | | |
| 21.5 | ● | SMDT 2150 MSL | 15.0 | 3.9 | SMDH220□ | 1 |
| 21.6 | ● | SMDT 2160 MSL | | | | 1 |
| 21.7 | ● | SMDT 2170 MSL | | | | 1 |
| 21.8 | ● | SMDT 2180 MSL | | | | 1 |
| 21.9 | ● | SMDT 2190 MSL | | 4.0 | | 1 |
| 22.0 | ● | SMDT 2200 MSL | | | | |
| 22.1 | ● | SMDT 2210 MSL | | | | |
| 22.2 | ● | SMDT 2220 MSL | | | | |
| 22.3 | ● | SMDT 2230 MSL | | | | |
| 22.4 | ● | SMDT 2240 MSL | | | | |
| 22.5 | ● | SMDT 2250 MSL | 4.1 | 1 | | |
| 22.6 | ● | SMDT 2260 MSL | | | | |
| 22.7 | ● | SMDT 2270 MSL | | | | |

材種 ACT100 推奨切削条件 P3 適用ホルダ P10



*h7公差は総合カタログN章一般資料編をご覧ください。



■ 刃先交換ヘッド MSL型 刃径φ22.8~28.1mm 寸法(mm)

| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig |
|-------|----|---------------|-----------|-------|----------|-----|
| 22.8 | ● | SMDT 2280 MSL | 15.0 | 4.1 | SMDH220□ | 1 |
| 22.9 | ● | SMDT 2290 MSL | 15.1 | 4.2 | SMDH230□ | 1 |
| 23.0 | ● | SMDT 2300 MSL | | | | 1 |
| 23.1 | ● | SMDT 2310 MSL | | | | 1 |
| 23.2 | ● | SMDT 2320 MSL | | | | 1 |
| 23.3 | ● | SMDT 2330 MSL | | | | 1 |
| 23.4 | ● | SMDT 2340 MSL | | | | 1 |
| 23.5 | ● | SMDT 2350 MSL | | | | 1 |
| 23.6 | ● | SMDT 2360 MSL | | | | 1 |
| 23.7 | ● | SMDT 2370 MSL | | | | 1 |
| 23.8 | ● | SMDT 2380 MSL | | | | 1 |
| 23.9 | ● | SMDT 2390 MSL | 15.4 | 4.3 | SMDH240□ | 1 |
| 24.0 | ● | SMDT 2400 MSL | | | | 1 |
| 24.1 | ● | SMDT 2410 MSL | | | | 1 |
| 24.2 | ● | SMDT 2420 MSL | | | | 1 |
| 24.3 | ● | SMDT 2430 MSL | | | | 1 |
| 24.4 | ● | SMDT 2440 MSL | | | | 1 |
| 24.5 | ● | SMDT 2450 MSL | | | | 1 |
| 24.6 | ● | SMDT 2460 MSL | | | | 1 |
| 24.7 | ● | SMDT 2470 MSL | | | | 1 |
| 24.8 | ● | SMDT 2480 MSL | | | | 1 |
| 24.9 | ● | SMDT 2490 MSL | 15.8 | 4.4 | SMDH250□ | 1 |
| 25.0 | ● | SMDT 2500 MSL | | | | 1 |
| 25.1 | ● | SMDT 2510 MSL | | | | 1 |
| 25.2 | ● | SMDT 2520 MSL | | | | 1 |
| 25.3 | ● | SMDT 2530 MSL | | | | 1 |
| 25.4 | ● | SMDT 2540 MSL | | | | 1 |
| 25.5 | ● | SMDT 2550 MSL | | | | 1 |
| 25.6 | ● | SMDT 2560 MSL | | | | 1 |
| 25.7 | ● | SMDT 2570 MSL | | | | 1 |
| 25.8 | ● | SMDT 2580 MSL | | | | 1 |
| 25.9 | ● | SMDT 2590 MSL | 16.4 | 4.5 | SMDH260□ | 1 |
| 26.0 | ● | SMDT 2600 MSL | | | | 1 |
| 26.1 | ● | SMDT 2610 MSL | | | | 1 |
| 26.2 | ● | SMDT 2620 MSL | | | | 1 |
| 26.3 | ● | SMDT 2630 MSL | | | | 1 |
| 26.4 | ● | SMDT 2640 MSL | | | | 1 |
| 26.5 | ● | SMDT 2650 MSL | | | | 1 |
| 26.6 | ● | SMDT 2660 MSL | | | | 1 |
| 26.7 | ● | SMDT 2670 MSL | | | | 1 |
| 26.8 | ● | SMDT 2680 MSL | | | | 1 |
| 26.9 | ● | SMDT 2690 MSL | 17.1 | 4.6 | SMDH270□ | 1 |
| 27.0 | ● | SMDT 2700 MSL | | | | 1 |
| 27.1 | ● | SMDT 2710 MSL | | | | 1 |
| 27.2 | ● | SMDT 2720 MSL | | | | 1 |
| 27.3 | ● | SMDT 2730 MSL | | | | 1 |
| 27.4 | ● | SMDT 2740 MSL | | | | 1 |
| 27.5 | ● | SMDT 2750 MSL | | | | 1 |
| 27.6 | ● | SMDT 2760 MSL | | | | 1 |
| 27.7 | ● | SMDT 2770 MSL | | | | 1 |
| 27.8 | ● | SMDT 2780 MSL | | | | 1 |
| 27.9 | ● | SMDT 2790 MSL | 17.7 | 4.7 | SMDH280□ | 1 |
| 28.0 | ● | SMDT 2800 MSL | | | | 1 |
| 28.1 | ● | SMDT 2810 MSL | | | | 1 |

材種 ACT100 推奨切削条件 P3 適用ホルダ P10

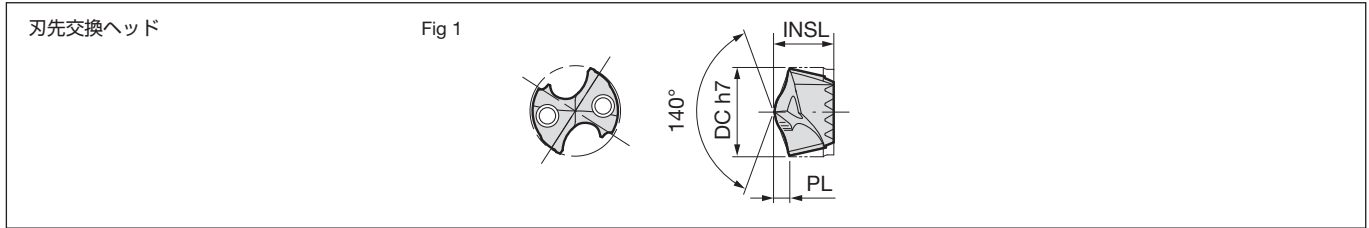
■ 刃先交換ヘッド MSL型 刃径φ28.2~30.8mm 寸法(mm)

| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig | |
|-------|----|---------------|-----------|-------|----------|-----|----------|
| 28.2 | ● | SMDT 2820 MSL | 17.7 | 5.1 | SMDH280□ | 1 | |
| 28.3 | ● | SMDT 2830 MSL | | 5.2 | | 1 | |
| 28.4 | ● | SMDT 2840 MSL | | 5.3 | | 1 | |
| 28.5 | ● | SMDT 2850 MSL | | 5.4 | | 1 | |
| 28.6 | ● | SMDT 2860 MSL | | 5.5 | | 1 | |
| 28.7 | ● | SMDT 2870 MSL | | 5.6 | | 1 | |
| 28.8 | ● | SMDT 2880 MSL | | 5.7 | | 1 | |
| 28.9 | ● | SMDT 2890 MSL | | 18.3 | | 5.8 | SMDH290□ |
| 29.0 | ● | SMDT 2900 MSL | 1 | | | | |
| 29.1 | ● | SMDT 2910 MSL | 1 | | | | |
| 29.2 | ● | SMDT 2920 MSL | 1 | | | | |
| 29.3 | ● | SMDT 2930 MSL | 1 | | | | |
| 29.4 | ● | SMDT 2940 MSL | 1 | | | | |
| 29.5 | ● | SMDT 2950 MSL | 1 | | | | |
| 29.6 | ● | SMDT 2960 MSL | 1 | | | | |
| 29.7 | ● | SMDT 2970 MSL | 1 | | | | |
| 29.8 | ● | SMDT 2980 MSL | 1 | | | | |
| 29.9 | ● | SMDT 2990 MSL | 19.0 | 5.9 | SMDH300□ | 1 | |
| 30.0 | ● | SMDT 3000 MSL | | | | 6.0 | 1 |
| 30.1 | ● | SMDT 3010 MSL | | | | 6.1 | 1 |
| 30.2 | ● | SMDT 3020 MSL | | | | 6.2 | 1 |
| 30.3 | ● | SMDT 3030 MSL | | | | 6.3 | 1 |
| 30.4 | ● | SMDT 3040 MSL | | | | 6.4 | 1 |
| 30.5 | ● | SMDT 3050 MSL | | | | 6.5 | 1 |
| 30.6 | ● | SMDT 3060 MSL | | | | 6.6 | 1 |
| 30.7 | ● | SMDT 3070 MSL | | | | 6.7 | 1 |
| 30.8 | ● | SMDT 3080 MSL | | | | 6.8 | 1 |

材種 ACT100 推奨切削条件 P3 適用ホルダ P10



*h7公差は総合カタログN章一般資料編をご覧ください。



■ 刃先交換ヘッド MEL型 刃径φ12.0~17.3mm 寸法(mm)

| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig | | |
|-------|----|---------------|-----------|-------|----------|-----|--|---|
| 12.0 | ▲ | SMDT 1200 MEL | 9.1 | 2.2 | SMDH120□ | 1 | | |
| 12.1 | ▲ | SMDT 1210 MEL | | | | 1 | | |
| 12.2 | ▲ | SMDT 1220 MEL | | 1 | | | | |
| 12.3 | ▲ | SMDT 1230 MEL | | 1 | | | | |
| 12.4 | ▲ | SMDT 1240 MEL | | 2.3 | | 1 | | |
| 12.5 | ▲ | SMDT 1250 MEL | 9.4 | 2.3 | SMDH125□ | 1 | | |
| 12.6 | ▲ | SMDT 1260 MEL | | | | 1 | | |
| 12.7 | ▲ | SMDT 1270 MEL | | | | 1 | | |
| 12.8 | ▲ | SMDT 1280 MEL | | | | 1 | | |
| 12.9 | ▲ | SMDT 1290 MEL | | | | 1 | | |
| 13.0 | ▲ | SMDT 1300 MEL | 9.7 | 2.4 | SMDH130□ | 1 | | |
| 13.1 | ▲ | SMDT 1310 MEL | | | | 1 | | |
| 13.2 | ▲ | SMDT 1320 MEL | | | | 1 | | |
| 13.3 | ▲ | SMDT 1330 MEL | | | | 1 | | |
| 13.4 | ▲ | SMDT 1340 MEL | | | | 1 | | |
| 13.5 | ▲ | SMDT 1350 MEL | 10.3 | 2.5 | SMDH140□ | 1 | | |
| 13.6 | ▲ | SMDT 1360 MEL | | | | 1 | | |
| 13.7 | ▲ | SMDT 1370 MEL | | | | 1 | | |
| 13.8 | ▲ | SMDT 1380 MEL | | | | 1 | | |
| 13.9 | ▲ | SMDT 1390 MEL | | | | 1 | | |
| 14.0 | ▲ | SMDT 1400 MEL | | | | 1 | | |
| 14.1 | ▲ | SMDT 1410 MEL | | | | 1 | | |
| 14.2 | ▲ | SMDT 1420 MEL | | | | 1 | | |
| 14.3 | ▲ | SMDT 1430 MEL | | | | 1 | | |
| 14.4 | ▲ | SMDT 1440 MEL | | | | 1 | | |
| 14.5 | ▲ | SMDT 1450 MEL | 1 | | | | | |
| 14.6 | ▲ | SMDT 1460 MEL | 11.0 | 2.7 | SMDH150□ | 1 | | |
| 14.7 | ▲ | SMDT 1470 MEL | | | | 1 | | |
| 14.8 | ▲ | SMDT 1480 MEL | | | | 1 | | |
| 14.9 | ▲ | SMDT 1490 MEL | | | | 1 | | |
| 15.0 | ▲ | SMDT 1500 MEL | | | | 1 | | |
| 15.1 | ▲ | SMDT 1510 MEL | | 1 | | | | |
| 15.2 | ▲ | SMDT 1520 MEL | | 1 | | | | |
| 15.3 | ▲ | SMDT 1530 MEL | | 1 | | | | |
| 15.4 | ▲ | SMDT 1540 MEL | | 1 | | | | |
| 15.5 | ▲ | SMDT 1550 MEL | | 2.8 | | 1 | | |
| 15.6 | ▲ | SMDT 1560 MEL | 11.6 | 2.8 | SMDH160□ | 1 | | |
| 15.7 | ▲ | SMDT 1570 MEL | | | | 1 | | |
| 15.8 | ▲ | SMDT 1580 MEL | | | | 1 | | |
| 15.9 | ▲ | SMDT 1590 MEL | | | | 1 | | |
| 16.0 | ▲ | SMDT 1600 MEL | | | | 1 | | |
| 16.1 | ▲ | SMDT 1610 MEL | | 1 | | | | |
| 16.2 | ▲ | SMDT 1620 MEL | | 1 | | | | |
| 16.3 | ▲ | SMDT 1630 MEL | | 1 | | | | |
| 16.4 | ▲ | SMDT 1640 MEL | | 1 | | | | |
| 16.5 | ▲ | SMDT 1650 MEL | | 1 | | | | |
| 16.6 | ▲ | SMDT 1660 MEL | 12.2 | 3.0 | SMDH170□ | 1 | | |
| 16.7 | ▲ | SMDT 1670 MEL | | | | 1 | | |
| 16.8 | ▲ | SMDT 1680 MEL | | | | 1 | | |
| 16.9 | ▲ | SMDT 1690 MEL | | | | 1 | | |
| 17.0 | ▲ | SMDT 1700 MEL | | | | 1 | | |
| 17.1 | ▲ | SMDT 1710 MEL | | 1 | | | | |
| 17.2 | ▲ | SMDT 1720 MEL | | 1 | | | | |
| 17.3 | ▲ | SMDT 1730 MEL | | 1 | | | | |
| | | | | | | 3.1 | | 1 |

材種 ACX80 推奨切削条件 P3 適用ホルダ P10

■ 刃先交換ヘッド MEL型 刃径φ17.4~22.7mm 寸法(mm)

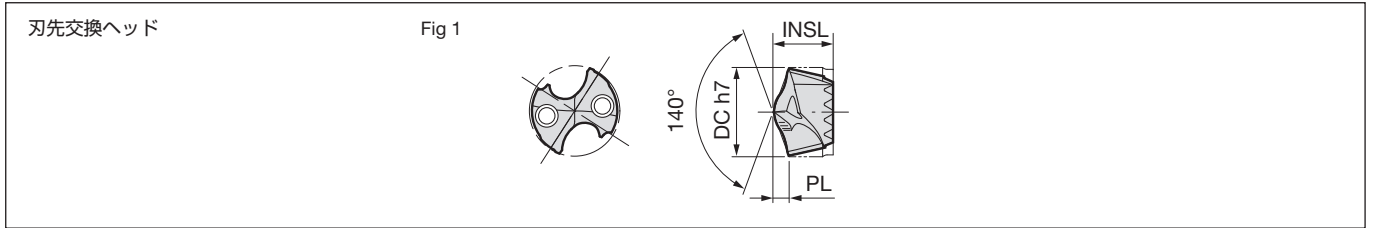
| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig |
|-------|----|---------------|-----------|----------|----------|-----|
| 17.4 | ▲ | SMDT 1740 MEL | 12.2 | 3.2 | SMDH170□ | 1 |
| 17.5 | ▲ | SMDT 1750 MEL | | | | 1 |
| 17.6 | ▲ | SMDT 1760 MEL | 12.9 | 3.2 | SMDH180□ | 1 |
| 17.7 | ▲ | SMDT 1770 MEL | | | | 1 |
| 17.8 | ▲ | SMDT 1780 MEL | | | | 1 |
| 17.9 | ▲ | SMDT 1790 MEL | | | | 1 |
| 18.0 | ▲ | SMDT 1800 MEL | | | | 1 |
| 18.1 | ▲ | SMDT 1810 MEL | | 1 | | |
| 18.2 | ▲ | SMDT 1820 MEL | | 1 | | |
| 18.3 | ▲ | SMDT 1830 MEL | | 1 | | |
| 18.4 | ▲ | SMDT 1840 MEL | | 1 | | |
| 18.5 | ▲ | SMDT 1850 MEL | | 3.4 | | 1 |
| 18.6 | ▲ | SMDT 1860 MEL | 13.5 | 3.4 | SMDH190□ | 1 |
| 18.7 | ▲ | SMDT 1870 MEL | | | | 1 |
| 18.8 | ▲ | SMDT 1880 MEL | | | | 1 |
| 18.9 | ▲ | SMDT 1890 MEL | | | | 1 |
| 19.0 | ▲ | SMDT 1900 MEL | | | | 1 |
| 19.1 | ▲ | SMDT 1910 MEL | | 1 | | |
| 19.2 | ▲ | SMDT 1920 MEL | | 1 | | |
| 19.3 | ▲ | SMDT 1930 MEL | | 1 | | |
| 19.4 | ▲ | SMDT 1940 MEL | | 1 | | |
| 19.5 | ▲ | SMDT 1950 MEL | | 1 | | |
| 19.6 | ▲ | SMDT 1960 MEL | 14.1 | 3.5 | SMDH200□ | 1 |
| 19.7 | ▲ | SMDT 1970 MEL | | | | 1 |
| 19.8 | ▲ | SMDT 1980 MEL | | | | 1 |
| 19.9 | ▲ | SMDT 1990 MEL | | | | 1 |
| 20.0 | ▲ | SMDT 2000 MEL | | | | 1 |
| 20.1 | ▲ | SMDT 2010 MEL | | 1 | | |
| 20.2 | ▲ | SMDT 2020 MEL | | 1 | | |
| 20.3 | ▲ | SMDT 2030 MEL | | 1 | | |
| 20.4 | ▲ | SMDT 2040 MEL | | 1 | | |
| 20.5 | ▲ | SMDT 2050 MEL | | 1 | | |
| 20.6 | ▲ | SMDT 2060 MEL | 14.8 | 3.6 | SMDH210□ | 1 |
| 20.7 | ▲ | SMDT 2070 MEL | | | | 1 |
| 20.8 | ▲ | SMDT 2080 MEL | | | | 1 |
| 20.9 | ▲ | SMDT 2090 MEL | | | | 1 |
| 21.0 | ▲ | SMDT 2100 MEL | | | | 1 |
| 21.1 | ▲ | SMDT 2110 MEL | | 1 | | |
| 21.2 | ▲ | SMDT 2120 MEL | | 1 | | |
| 21.3 | ▲ | SMDT 2130 MEL | | 1 | | |
| 21.4 | ▲ | SMDT 2140 MEL | | 1 | | |
| 21.5 | ▲ | SMDT 2150 MEL | | 1 | | |
| 21.6 | ▲ | SMDT 2160 MEL | 15.0 | 3.7 | SMDH220□ | 1 |
| 21.7 | ▲ | SMDT 2170 MEL | | | | 1 |
| 21.8 | ▲ | SMDT 2180 MEL | | | | 1 |
| 21.9 | ▲ | SMDT 2190 MEL | | | | 1 |
| 22.0 | ▲ | SMDT 2200 MEL | | | | 1 |
| 22.1 | ▲ | SMDT 2210 MEL | | 1 | | |
| 22.2 | ▲ | SMDT 2220 MEL | | 1 | | |
| 22.3 | ▲ | SMDT 2230 MEL | | 1 | | |
| 22.4 | ▲ | SMDT 2240 MEL | | 1 | | |
| 22.5 | ▲ | SMDT 2250 MEL | | 1 | | |
| 22.6 | ▲ | SMDT 2260 MEL | 4.0 | SMDH220□ | 1 | |
| 22.7 | ▲ | SMDT 2270 MEL | | | 1 | |
| | | | 4.1 | | SMDH220□ | 1 |
| | | | | | | 1 |

材種 ACX80 推奨切削条件 P3 適用ホルダ P10

▲印:将来、新製品に置換え・受注生産に移行・廃止などを予定(在庫を確認願います)



*h7公差は総合カタログN章一般資料編をご覧ください。



■ 刃先交換ヘッド MEL型 刃径φ22.8~28.1mm 寸法(mm)

| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig |
|-------|----|---------------|-----------|-------|----------|-----|
| 22.8 | ▲ | SMDT 2280 MEL | 15.0 | 4.1 | SMDH220□ | 1 |
| 22.9 | ▲ | SMDT 2290 MEL | 15.1 | 4.2 | SMDH230□ | 1 |
| 23.0 | ▲ | SMDT 2300 MEL | | | | 1 |
| 23.1 | ▲ | SMDT 2310 MEL | | | | 1 |
| 23.2 | ▲ | SMDT 2320 MEL | | | | 1 |
| 23.3 | ▲ | SMDT 2330 MEL | | | | 1 |
| 23.4 | ▲ | SMDT 2340 MEL | | | | 1 |
| 23.5 | ▲ | SMDT 2350 MEL | | | | 1 |
| 23.6 | ▲ | SMDT 2360 MEL | | | | 1 |
| 23.7 | ▲ | SMDT 2370 MEL | | | | 1 |
| 23.8 | ▲ | SMDT 2380 MEL | | | | 1 |
| 23.9 | ▲ | SMDT 2390 MEL | 15.4 | 4.3 | SMDH240□ | 1 |
| 24.0 | ▲ | SMDT 2400 MEL | | | | 1 |
| 24.1 | ▲ | SMDT 2410 MEL | | | | 1 |
| 24.2 | ▲ | SMDT 2420 MEL | | | | 1 |
| 24.3 | ▲ | SMDT 2430 MEL | | | | 1 |
| 24.4 | ▲ | SMDT 2440 MEL | | | | 1 |
| 24.5 | ▲ | SMDT 2450 MEL | | | | 1 |
| 24.6 | ▲ | SMDT 2460 MEL | | | | 1 |
| 24.7 | ▲ | SMDT 2470 MEL | | | | 1 |
| 24.8 | ▲ | SMDT 2480 MEL | | | | 1 |
| 24.9 | ▲ | SMDT 2490 MEL | 15.8 | 4.4 | SMDH250□ | 1 |
| 25.0 | ▲ | SMDT 2500 MEL | | | | 1 |
| 25.1 | ▲ | SMDT 2510 MEL | | | | 1 |
| 25.2 | ▲ | SMDT 2520 MEL | | | | 1 |
| 25.3 | ▲ | SMDT 2530 MEL | | | | 1 |
| 25.4 | ▲ | SMDT 2540 MEL | | | | 1 |
| 25.5 | ▲ | SMDT 2550 MEL | | | | 1 |
| 25.6 | ▲ | SMDT 2560 MEL | | | | 1 |
| 25.7 | ▲ | SMDT 2570 MEL | | | | 1 |
| 25.8 | ▲ | SMDT 2580 MEL | | | | 1 |
| 25.9 | ▲ | SMDT 2590 MEL | 16.4 | 4.5 | SMDH260□ | 1 |
| 26.0 | ▲ | SMDT 2600 MEL | | | | 1 |
| 26.1 | ▲ | SMDT 2610 MEL | | | | 1 |
| 26.2 | ▲ | SMDT 2620 MEL | | | | 1 |
| 26.3 | ▲ | SMDT 2630 MEL | | | | 1 |
| 26.4 | ▲ | SMDT 2640 MEL | | | | 1 |
| 26.5 | ▲ | SMDT 2650 MEL | | | | 1 |
| 26.6 | ▲ | SMDT 2660 MEL | | | | 1 |
| 26.7 | ▲ | SMDT 2670 MEL | | | | 1 |
| 26.8 | ▲ | SMDT 2680 MEL | | | | 1 |
| 26.9 | ▲ | SMDT 2690 MEL | 17.1 | 4.6 | SMDH270□ | 1 |
| 27.0 | ▲ | SMDT 2700 MEL | | | | 1 |
| 27.1 | ▲ | SMDT 2710 MEL | | | | 1 |
| 27.2 | ▲ | SMDT 2720 MEL | | | | 1 |
| 27.3 | ▲ | SMDT 2730 MEL | | | | 1 |
| 27.4 | ▲ | SMDT 2740 MEL | | | | 1 |
| 27.5 | ▲ | SMDT 2750 MEL | | | | 1 |
| 27.6 | ▲ | SMDT 2760 MEL | | | | 1 |
| 27.7 | ▲ | SMDT 2770 MEL | | | | 1 |
| 27.8 | ▲ | SMDT 2780 MEL | | | | 1 |
| 27.9 | ▲ | SMDT 2790 MEL | 17.7 | 4.7 | SMDH280□ | 1 |
| 28.0 | ▲ | SMDT 2800 MEL | | | | 1 |
| 28.1 | ▲ | SMDT 2810 MEL | | | | 1 |

材種 ACX80 推奨切削条件 P3 適用ホルダ P10

■ 刃先交換ヘッド MEL型 刃径φ28.2~30.8mm 寸法(mm)

| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig | |
|-------|----|---------------|-----------|-------|----------|-----|----------|
| 28.2 | ▲ | SMDT 2820 MEL | 17.7 | 5.1 | SMDH280□ | 1 | |
| 28.3 | ▲ | SMDT 2830 MEL | | 5.2 | | 1 | |
| 28.4 | ▲ | SMDT 2840 MEL | | 5.3 | | 1 | |
| 28.5 | ▲ | SMDT 2850 MEL | | 5.4 | | 1 | |
| 28.6 | ▲ | SMDT 2860 MEL | | 5.5 | | 1 | |
| 28.7 | ▲ | SMDT 2870 MEL | | 5.6 | | 1 | |
| 28.8 | ▲ | SMDT 2880 MEL | | | | 1 | |
| 28.9 | ▲ | SMDT 2890 MEL | | 18.3 | | 5.1 | SMDH290□ |
| 29.0 | ▲ | SMDT 2900 MEL | 5.2 | | 1 | | |
| 29.1 | ▲ | SMDT 2910 MEL | 5.3 | | 1 | | |
| 29.2 | ▲ | SMDT 2920 MEL | 5.4 | | 1 | | |
| 29.3 | ▲ | SMDT 2930 MEL | 5.5 | | 1 | | |
| 29.4 | ▲ | SMDT 2940 MEL | 5.6 | | 1 | | |
| 29.5 | ▲ | SMDT 2950 MEL | | | 1 | | |
| 29.6 | ▲ | SMDT 2960 MEL | | | 1 | | |
| 29.7 | ▲ | SMDT 2970 MEL | | | 1 | | |
| 29.8 | ▲ | SMDT 2980 MEL | | | 1 | | |
| 29.9 | ▲ | SMDT 2990 MEL | 19.0 | 5.1 | SMDH300□ | 1 | |
| 30.0 | ▲ | SMDT 3000 MEL | | | | 5.2 | 1 |
| 30.1 | ▲ | SMDT 3010 MEL | | | | 5.3 | 1 |
| 30.2 | ▲ | SMDT 3020 MEL | | | | 5.4 | 1 |
| 30.3 | ▲ | SMDT 3030 MEL | | | | 5.5 | 1 |
| 30.4 | ▲ | SMDT 3040 MEL | | | | 5.6 | 1 |
| 30.5 | ▲ | SMDT 3050 MEL | | | | | 1 |
| 30.6 | ▲ | SMDT 3060 MEL | | | | | 1 |
| 30.7 | ▲ | SMDT 3070 MEL | | | | | 1 |
| 30.8 | ▲ | SMDT 3080 MEL | | | | | 1 |

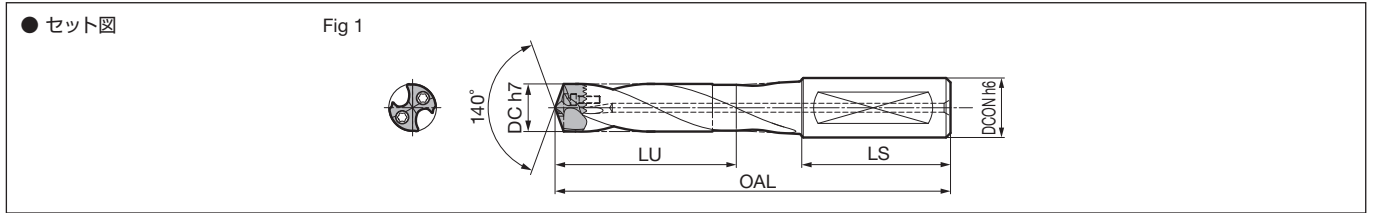
材種 ACX80 推奨切削条件 P3 適用ホルダ P10

SMD型(内部給油) 平取りあり/フランジなし

| | | | | | | | | | | |
|------------|---------------|---------------|--------------|--------------|------|------------|------------|------------|------------|------------|
| MTL | 低合金鋼 ~0.2% | 低合金鋼 0.2%~ | 鋼質 | 高硬合金鋼 HRC | 耐熱鋼 | タタイル 鋳鉄 | タタイル 鋳鉄 | タタイル 鋳鉄 | タタイル 鋳鉄 | タタイル 鋳鉄 |
| MSL | 低合金鋼 ~0.2% | 低合金鋼 0.2%~ | ステン レス鋼 | Ti合金 | 耐熱鋼 | タタイル 鋳鉄 | タタイル 鋳鉄 | タタイル 鋳鉄 | タタイル 鋳鉄 | タタイル 鋳鉄 |
| MEL | 低合金鋼 ~0.2% | 低合金鋼 0.2%~ | 高硬合金鋼 HRC | ステン レス鋼 | Ti合金 | 耐熱鋼 | タタイル 鋳鉄 | タタイル 鋳鉄 | タタイル 鋳鉄 | タタイル 鋳鉄 |

DEX コート
NX コート
交換ヘッド MTL
交換ヘッド MSL
交換ヘッド MEL
油穴付き
刃先交換
3D
5D
8D

*h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 本体 ø12.0~29.8mm MTL型/MSL型/MEL型セット時寸法 寸法(mm) ■ 部品

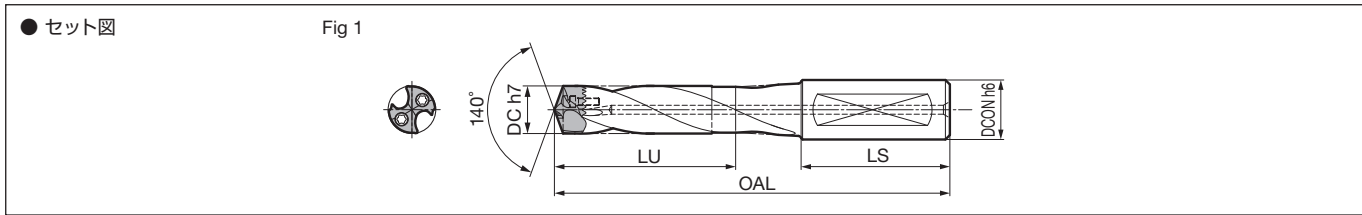
| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | シャンク径 DCON | 刃先交換ヘッド | Fig | キャップスクリュー | | レンチ |
|---------------|-----------|-----------|----|--------|--------|---------|------------|----------------|-----|------------|-----------|----------|
| | | | | | | | | | | | | |
| 12.0以上12.5未満 | 3 | SMDH 120M | ● | 42.0 | 107.2 | 48 | 16 | MTL/MSL MEL | 1 | BXD02208IP | 0.75~1.00 | TRDR08IP |
| | 5 | SMDH 120L | ● | 67.0 | 132.2 | | | | | | | |
| 12.5以上13.0未満 | 3 | SMDH 125M | ● | 44.0 | 107.3 | 48 | 16 | MTL/MSL MEL | 1 | BXD02208IP | 0.75~1.00 | TRDR08IP |
| | 5 | SMDH 125L | ● | 69.0 | 132.3 | | | | | | | |
| 13.0以上13.5未満 | 3 | SMDH 130M | ● | 45.0 | 112.4 | 48 | 16 | MTL/MSL MEL | 1 | BXD02208IP | 0.75~1.00 | TRDR08IP |
| | 5 | SMDH 130L | ● | 72.0 | 142.4 | | | | | | | |
| 13.5以上14.5以下 | 3 | SMDH 140M | ● | 51.0 | 119.0 | 48 | 16 | MTL/MSL MEL | 1 | BXD02208IP | 0.75~1.00 | TRDR08IP |
| | 5 | SMDH 140L | ● | 80.0 | 149.0 | | | | | | | |
| | 8 | SMDH 140D | ● | 123.0 | 194.0 | | | | | | | |
| 14.5をこえ15.5以下 | 3 | SMDH 150M | ● | 54.0 | 129.2 | 50 | 20 | MTL/MSL MEL | 1 | BXD02208IP | 0.75~1.00 | TRDR08IP |
| | 5 | SMDH 150L | ● | 85.0 | 159.2 | | | | | | | |
| | 8 | SMDH 150D | ● | 131.0 | 204.2 | | | | | | | |
| 15.5をこえ16.5以下 | 3 | SMDH 160M | ● | 57.0 | 134.4 | 50 | 20 | MTL/MSL MEL | 1 | BXD02509IP | 0.93~1.24 | TRDR10IP |
| | 5 | SMDH 160L | ● | 90.0 | 169.4 | | | | | | | |
| | 8 | SMDH 160D | ● | 140.0 | 214.4 | | | | | | | |
| 16.5をこえ17.5以下 | 3 | SMDH 170M | ● | 60.0 | 139.6 | 50 | 20 | MTL/MSL MEL | 1 | BXD02509IP | 0.93~1.24 | TRDR10IP |
| | 5 | SMDH 170L | ● | 95.0 | 174.6 | | | | | | | |
| | 8 | SMDH 170D | ● | 148.0 | 224.6 | | | | | | | |
| 17.5をこえ18.5以下 | 3 | SMDH 180M | ● | 63.0 | 144.8 | 50 | 20 | MTL/MSL MEL | 1 | BXD02509IP | 0.93~1.24 | TRDR10IP |
| | 5 | SMDH 180L | ● | 100.0 | 179.8 | | | | | | | |
| | 8 | SMDH 180D | ● | 156.0 | 229.8 | | | | | | | |
| 18.5をこえ19.5以下 | 3 | SMDH 190M | ● | 67.0 | 160.0 | 56 | 25 | MTL/MSL MEL | 1 | BXD03011IP | 1.83~2.44 | TRDR15IP |
| | 5 | SMDH 190L | ● | 106.0 | 195.0 | | | | | | | |
| | 8 | SMDH 190D | ● | 164.0 | 255.0 | | | | | | | |
| 19.5をこえ20.5以下 | 3 | SMDH 200M | ● | 70.0 | 160.1 | 56 | 25 | MTL/MSL MEL | 1 | BXD03011IP | 1.83~2.44 | TRDR15IP |
| | 5 | SMDH 200L | ● | 111.0 | 200.1 | | | | | | | |
| | 8 | SMDH 200D | ● | 172.0 | 265.1 | | | | | | | |
| 20.5をこえ21.5以下 | 3 | SMDH 210M | ● | 73.0 | 160.3 | 56 | 25 | MTL/MSL MEL | 1 | BXD03011IP | 1.83~2.44 | TRDR15IP |
| | 5 | SMDH 210L | ● | 116.0 | 200.3 | | | | | | | |
| | 8 | SMDH 210D | ● | 180.0 | 270.3 | | | | | | | |
| 21.5をこえ22.8以下 | 3 | SMDH 220M | ● | 77.0 | 165.1 | 56 | 25 | MTL/MSL MEL | 1 | BXD03512IP | 2.79~3.72 | TRDR15IP |
| | 5 | SMDH 220L | ● | 123.0 | 205.1 | | | | | | | |
| | 8 | SMDH 220D | ● | 191.0 | 275.1 | | | | | | | |
| 22.8をこえ23.8以下 | 3 | SMDH 230M | ● | 80.0 | 164.7 | 56 | 25 | MTL/MSL MEL | 1 | BXD03512IP | 2.79~3.72 | TRDR15IP |
| | 5 | SMDH 230L | ● | 128.0 | 214.7 | | | | | | | |
| | 8 | SMDH 230D | ● | 199.0 | 284.7 | | | | | | | |
| 23.8をこえ24.8以下 | 3 | SMDH 240M | ● | 83.0 | 174.6 | 60 | 32 | MTL/MSL MEL | 1 | BXD03512IP | 2.79~3.72 | TRDR15IP |
| | 5 | SMDH 240L | ● | 133.0 | 224.6 | | | | | | | |
| | 8 | SMDH 240D | ● | 207.0 | 299.6 | | | | | | | |
| 24.8をこえ25.8以下 | 3 | SMDH 250M | ● | 87.0 | 174.5 | 60 | 32 | MTL/MSL MEL | 1 | BXD04014IP | 4.14~5.52 | TRDR20IP |
| | 5 | SMDH 250L | ● | 138.0 | 229.5 | | | | | | | |
| | 8 | SMDH 250D | ● | 216.0 | 304.5 | | | | | | | |
| 25.8をこえ26.8以下 | 3 | SMDH 260M | ● | 90.0 | 179.7 | 60 | 32 | MTL/MSL MEL | 1 | BXD04014IP | 4.14~5.52 | TRDR20IP |
| | 5 | SMDH 260L | ● | 143.0 | 234.7 | | | | | | | |
| | 8 | SMDH 260D | ● | 224.0 | 314.7 | | | | | | | |
| 26.8をこえ27.8以下 | 3 | SMDH 270M | ● | 93.0 | 179.9 | 60 | 32 | MTL/MSL MEL | 1 | BXD04014IP | 4.14~5.52 | TRDR20IP |
| | 5 | SMDH 270L | ● | 149.0 | 239.9 | | | | | | | |
| | 8 | SMDH 270D | ● | 232.0 | 324.9 | | | | | | | |
| 27.8をこえ28.8以下 | 3 | SMDH 280M | ● | 96.0 | 185.1 | 60 | 32 | MTL/MSL MEL | 1 | BXD04515IP | 4.98~6.64 | TRDR25IP |
| | 5 | SMDH 280L | ● | 154.0 | 245.1 | | | | | | | |
| | 8 | SMDH 280D | ● | 240.0 | 330.1 | | | | | | | |
| 28.8をこえ29.8以下 | 3 | SMDH 290M | ● | 99.0 | 190.3 | 60 | 32 | MTL/MSL MEL | 1 | BXD04515IP | 4.98~6.64 | TRDR25IP |
| | 5 | SMDH 290L | ● | 159.0 | 250.3 | | | | | | | |
| | 8 | SMDH 290D | ● | 248.0 | 340.3 | | | | | | | |

推奨切削条件
☞ P3
MTL型ヘッド
☞ P4
MSL型ヘッド
☞ P6
MEL型ヘッド
☞ P8
☞ 推奨締め付ケトルク(N・m)

| | | | | | | |
|------------|---------------|---------------|-------------------|-------------------|---------|------------|
| MTL | 粉末冶金 ~0.2% | 粉末冶金 0.2%~ | 鋼質 鋼 | 高硬度鋼 ~5 HRC | 鋳鉄 | タタイル 鋳鉄 |
| MSL | 粉末冶金 ~0.2% | 粉末冶金 0.2%~ | ステン レス鋼 | Ti合金 | 耐熱 鋼 | タタイル 鋳鉄 |
| MEL | 粉末冶金 ~0.2% | 粉末冶金 0.2%~ | 高硬度鋼 ~5 HRC | ステン レス鋼 | Ti合金 | 耐熱 鋼 |



*h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 本体 ø29.8~42.5mm MTL型/MSL型/MEL型セット時寸法 寸法(mm) ■ 部品

| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | シャンク径 DCON | 刃先交換 ヘッド | Fig | キャップスクリュー | | レンチ |
|---------------|--------------|-----------|----|-----------|-----------|------------|---------------|----------------|-----|------------|-----------|----------|
| | | | | | | | | | | | | |
| 29.8をこえ30.8以下 | 3 | SMDH 300M | ● | 103.0 | 190.5 | 60 | 32 | MTL/MSL MEL | 1 | BXD04515IP | 4.98~6.64 | TRDR25IP |
| | 5 | SMDH 300L | ● | 164.0 | 260.5 | | | | 1 | | | |
| | 8 | SMDH 300D | ● | 257.0 | 350.5 | | | | 1 | | | |
| 30.8をこえ32.0以下 | 3 | SMDH 320M | ● | 106.0 | 200.7 | 60 | 32 | MTL | 1 | BXD04515IP | 4.98~6.64 | TRDR25IP |
| | 5 | SMDH 320L | ● | 170.0 | 265.8 | | | | 1 | | | |
| | 8 | SMDH 320D | ● | 266.0 | 360.8 | | | | 1 | | | |
| 32.0をこえ33.5以下 | 3 | SMDH 335M | ● | 111.0 | 205.9 | 60 | 32 | MTL | 1 | BXD04515IP | 4.98~6.64 | TRDR25IP |
| | 5 | SMDH 335L | ● | 178.0 | 274.1 | | | | 1 | | | |
| | 8 | SMDH 335D | ● | 279.0 | 376.1 | | | | 1 | | | |
| 33.5をこえ35.0以下 | 3 | SMDH 350M | ● | 116.0 | 221.2 | 70 | 40 | MTL | 1 | BX0515 | 7.2 | HD040 |
| | 5 | SMDH 350L | ● | 186.0 | 296.4 | | | | 1 | | | |
| | 8 | SMDH 350D | ● | 291.0 | 401.4 | | | | 1 | | | |
| 35.0をこえ36.5以下 | 3 | SMDH 365M | ● | 121.0 | 226.4 | 70 | 40 | MTL | 1 | BX0515 | 7.2 | HD040 |
| | 5 | SMDH 365L | ● | 194.0 | 301.6 | | | | 1 | | | |
| | 8 | SMDH 365D | ● | 303.0 | 411.6 | | | | 1 | | | |
| 36.5をこえ38.0以下 | 3 | SMDH 380M | ● | 125.0 | 231.7 | 70 | 40 | MTL | 1 | BX0515 | 7.2 | HD040 |
| | 5 | SMDH 380L | ● | 201.0 | 311.9 | | | | 1 | | | |
| | 8 | SMDH 380D | ● | 315.0 | 426.9 | | | | 1 | | | |
| 38.0をこえ39.5以下 | 3 | SMDH 395M | ● | 130.0 | 237.0 | 70 | 40 | MTL | 1 | BX0515 | 7.2 | HD040 |
| | 5 | SMDH 395L | ● | 209.0 | 322.2 | | | | 1 | | | |
| | 8 | SMDH 395D | ● | 328.0 | 437.2 | | | | 1 | | | |
| 39.5をこえ41.0以下 | 3 | SMDH 410M | ● | 135.0 | 252.2 | 70 | 40 | MTL | 1 | BX0515 | 7.2 | HD040 |
| | 5 | SMDH 410L | ● | 217.0 | 332.5 | | | | 1 | | | |
| | 8 | SMDH 410D | ● | 340.0 | 457.5 | | | | 1 | | | |
| 41.0をこえ42.5以下 | 3 | SMDH 425M | ● | 140.0 | 257.5 | 70 | 40 | MTL | 1 | BX0515 | 7.2 | HD040 |
| | 5 | SMDH 425L | ● | 225.0 | 342.7 | | | | 1 | | | |
| | 8 | SMDH 425D | ● | 352.0 | 467.7 | | | | 1 | | | |

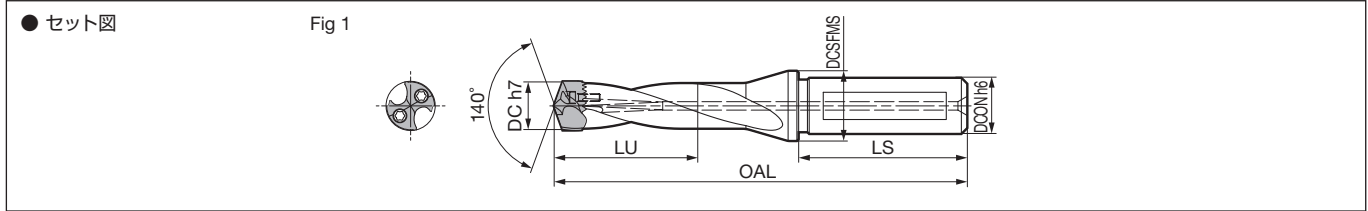
推奨切削条件 P3 MTL型ヘッド P4 MSL型ヘッド P6 MEL型ヘッド

推奨締付けトルク(N·m)

| | | | | | |
|-----------------------------|---------------|------------|------------|---------|------------|
| MTL 両面全周 ~0.2% | 両面全周 0.2%~ | 鋼質 | 高硬鋼 HRC | 鋳鉄 | タタイル 鋳鉄 |
| MSL 両面全周 ~0.2% | 両面全周 0.2%~ | ステン レス鋼 | Ti合金 | 耐熱 鋼 | タタイル 鋳鉄 |
| MEL 両面全周 ~0.2% | 両面全周 0.2%~ | 高硬鋼 HRC | ステン レス鋼 | Ti合金 | 耐熱 鋼 |

DEX コート
NX コート
交換ヘッド MTL
交換ヘッド MSL
交換ヘッド MEL
油穴付き
刃先交換
1.5D
3D
5D
8D

*h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 本体 φ12.0~24.8mm MTL型/MSL型/MEL型セット時寸法 寸法(mm) ■ 部品

| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | フランジ径 DCSFMS | シャンク径 DCON | 刃先交換ヘッド | Fig | キャップスクリュー | | レンチ |
|---------------|-----------|----------------|----|--------|--------|---------|--------------|------------|----------------|-----|-------------|-----------|----------|
| | | | | | | | | | | | Fig | N·m | |
| 12.0以上12.5未満 | 1.5 | SMDH 120-1.5DF | ● | 23.0 | 90.5 | | | | MTL/MSL MEL | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 3 | SMDH 120-3DF | ● | 42.0 | 107.2 | 48 | 20 | 16 | | 1 | | | |
| | 5 | SMDH 120-5DF | ● | 67.0 | 132.2 | | | | | 1 | | | |
| | 8 | SMDH 120-8DF | ● | 98.0 | 164.4 | | | | | 1 | | | |
| 12.5以上13.0未満 | 1.5 | SMDH 125-1.5DF | ● | 24.0 | 91.0 | | | | MTL/MSL MEL | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 3 | SMDH 125-3DF | ● | 44.0 | 107.3 | 48 | 20 | 16 | | 1 | | | |
| | 5 | SMDH 125-5DF | ● | 69.0 | 132.3 | | | | | 1 | | | |
| | 8 | SMDH 125-8DF | ● | 102.0 | 170.1 | | | | | 1 | | | |
| 13.0以上13.5未満 | 1.5 | SMDH 130-1.5DF | ● | 25.0 | 92.2 | | | | MTL/MSL MEL | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 3 | SMDH 130-3DF | ● | 45.0 | 112.4 | 48 | 20 | 16 | | 1 | | | |
| | 5 | SMDH 130-5DF | ● | 72.0 | 142.4 | | | | | 1 | | | |
| | 8 | SMDH 130-8DF | ● | 106.0 | 178.4 | | | | | 1 | | | |
| 13.5以上14.5以下 | 1.5 | SMDH 140-1.5DF | ● | 29.0 | 96.3 | | | | MTL/MSL MEL | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 3 | SMDH 140-3DF | ● | 51.0 | 119.0 | 48 | 20 | 16 | | 1 | | | |
| | 5 | SMDH 140-5DF | ● | 80.0 | 149.0 | | | | | 1 | | | |
| | 8 | SMDH 140-8DF | ● | 123.0 | 194.0 | | | | | 1 | | | |
| 14.5をこえ15.5以下 | 1.5 | SMDH 150-1.5DF | ● | 31.0 | 100.0 | | | | MTL/MSL MEL | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 3 | SMDH 150-3DF | ● | 54.0 | 129.2 | 50 | 25 | 20 | | 1 | | | |
| | 5 | SMDH 150-5DF | ● | 85.0 | 159.2 | | | | | 1 | | | |
| | 8 | SMDH 150-8DF | ● | 131.0 | 204.2 | | | | | 1 | | | |
| 15.5をこえ16.5以下 | 1.5 | SMDH 160-1.5DF | ● | 32.0 | 102.7 | | | | MTL/MSL MEL | 1 | BXD02509IPC | 0.93~1.24 | TRDR10IP |
| | 3 | SMDH 160-3DF | ● | 57.0 | 134.4 | 50 | 25 | 20 | | 1 | | | |
| | 5 | SMDH 160-5DF | ● | 90.0 | 169.4 | | | | | 1 | | | |
| | 8 | SMDH 160-8DF | ● | 140.0 | 214.4 | | | | | 1 | | | |
| 16.5をこえ17.5以下 | 1.5 | SMDH 170-1.5DF | ● | 34.0 | 104.4 | | | | MTL/MSL MEL | 1 | BXD02509IPC | 0.93~1.24 | TRDR10IP |
| | 3 | SMDH 170-3DF | ● | 60.0 | 139.6 | 50 | 25 | 20 | | 1 | | | |
| | 5 | SMDH 170-5DF | ● | 95.0 | 174.6 | | | | | 1 | | | |
| | 8 | SMDH 170-8DF | ● | 148.0 | 224.6 | | | | | 1 | | | |
| 17.5をこえ18.5以下 | 1.5 | SMDH 180-1.5DF | ● | 36.0 | 107.1 | | | | MTL/MSL MEL | 1 | BXD02509IPC | 0.93~1.24 | TRDR10IP |
| | 3 | SMDH 180-3DF | ● | 63.0 | 144.8 | 50 | 25 | 20 | | 1 | | | |
| | 5 | SMDH 180-5DF | ● | 100.0 | 179.8 | | | | | 1 | | | |
| | 8 | SMDH 180-8DF | ● | 156.0 | 229.8 | | | | | 1 | | | |
| 18.5をこえ19.5以下 | 1.5 | SMDH 190-1.5DF | ● | 37.0 | 114.8 | | | | MTL/MSL MEL | 1 | BXD03011IPC | 1.83~2.44 | TRDR15IP |
| | 3 | SMDH 190-3DF | ● | 67.0 | 160.0 | 56 | 30 | 25 | | 1 | | | |
| | 5 | SMDH 190-5DF | ● | 106.0 | 195.0 | | | | | 1 | | | |
| | 8 | SMDH 190-8DF | ● | 164.0 | 255.0 | | | | | 1 | | | |
| 19.5をこえ20.5以下 | 1.5 | SMDH 200-1.5DF | ● | 39.0 | 117.4 | | | | MTL/MSL MEL | 1 | BXD03011IPC | 1.83~2.44 | TRDR15IP |
| | 3 | SMDH 200-3DF | ● | 70.0 | 160.1 | 56 | 30 | 25 | | 1 | | | |
| | 5 | SMDH 200-5DF | ● | 111.0 | 200.1 | | | | | 1 | | | |
| | 8 | SMDH 200-8DF | ● | 172.0 | 265.1 | | | | | 1 | | | |
| 20.5をこえ21.5以下 | 1.5 | SMDH 210-1.5DF | ● | 41.0 | 119.1 | | | | MTL/MSL MEL | 1 | BXD03011IPC | 1.83~2.44 | TRDR15IP |
| | 3 | SMDH 210-3DF | ● | 73.0 | 160.3 | 56 | 30 | 25 | | 1 | | | |
| | 5 | SMDH 210-5DF | ● | 116.0 | 200.3 | | | | | 1 | | | |
| | 8 | SMDH 210-8DF | ● | 180.0 | 270.3 | | | | | 1 | | | |
| 21.5をこえ22.8以下 | 1.5 | SMDH 220-1.5DF | ● | 43.0 | 120.9 | | | | MTL/MSL MEL | 1 | BXD03512IPC | 2.79~3.72 | TRDR15IP |
| | 3 | SMDH 220-3DF | ● | 77.0 | 165.1 | 56 | 30 | 25 | | 1 | | | |
| | 5 | SMDH 220-5DF | ● | 123.0 | 205.1 | | | | | 1 | | | |
| | 8 | SMDH 220-8DF | ● | 191.0 | 275.1 | | | | | 1 | | | |
| 22.8をこえ23.8以下 | 1.5 | SMDH 230-1.5DF | ● | 45.0 | 122.0 | | | | MTL/MSL MEL | 1 | BXD03512IPC | 2.79~3.72 | TRDR15IP |
| | 3 | SMDH 230-3DF | ● | 80.0 | 164.7 | 56 | 30 | 25 | | 1 | | | |
| | 5 | SMDH 230-5DF | ● | 128.0 | 214.7 | | | | | 1 | | | |
| | 8 | SMDH 230-8DF | ● | 199.0 | 284.7 | | | | | 1 | | | |
| 23.8をこえ24.8以下 | 1.5 | SMDH 240-1.5DF | ● | 46.0 | 128.4 | | | | MTL/MSL MEL | 1 | BXD03512IPC | 2.79~3.72 | TRDR15IP |
| | 3 | SMDH 240-3DF | ● | 83.0 | 174.6 | 60 | 37 | 32 | | 1 | | | |
| | 5 | SMDH 240-5DF | ● | 133.0 | 224.6 | | | | | 1 | | | |
| | 8 | SMDH 240-8DF | ● | 207.0 | 299.6 | | | | | 1 | | | |

推奨切削条件 P3 MTL型ヘッド P4 MSL型ヘッド P6 MEL型ヘッド P8 推奨締付トルク(N·m)

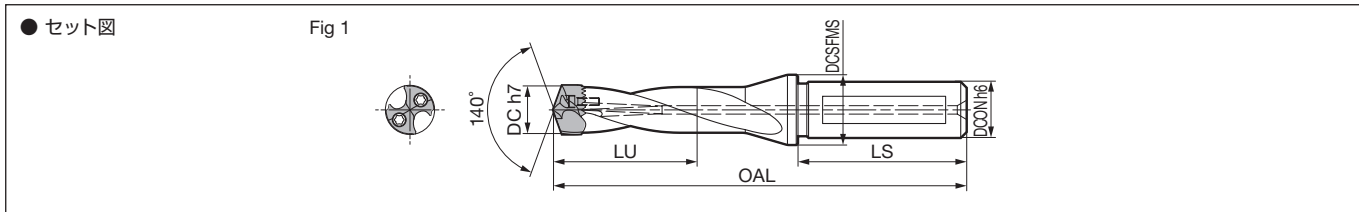
*SMDH〇〇〇Sホルダは型番名称がSMDH〇〇〇-1.5DFに変更になりました。仕様に変更はありません。

●印:標準在庫品

| | | | | | | |
|------------|---------------|---------------|-------------------|-------------------|---------|------------|
| MTL | 鉄合金類 ~0.2% | 鉄合金類 0.2%~ | 鋼質 鋼 | 高硬度鋼 ~5 HRC | 鋳鉄 | タタイル 鋳鉄 |
| MSL | 鉄合金類 ~0.2% | 鉄合金類 0.2%~ | ステン レス鋼 | Ti合金 | 耐熱 鋼 | タタイル 鋳鉄 |
| MEL | 鉄合金類 ~0.2% | 鉄合金類 0.2%~ | 高硬度鋼 ~5 HRC | ステン レス鋼 | Ti合金 | 耐熱 鋼 |



*h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 本体 ø24.8~30.8mm MTL型/MSL型/MEL型セット時寸法 寸法(mm) ■ 部品

| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | フランジ径 DCSFMS | シャンク径 DCON | 刃先交換 ヘッド | Fig | キャップスクリュー | | レンチ |
|---------------|--------------|----------------|----|-----------|-----------|------------|-----------------|---------------|----------------|-----|-------------|-----------|----------|
| | | | | | | | | | | | 5.2 | (N·m) | |
| 24.8をこえ25.8以下 | 1.5 | SMDH 250-1.5DF | ● | 48.0 | 128.8 | 60 | 37 | 32 | MTL/MSL MEL | 1 | BXD04014IPC | 4.14~5.52 | TRDR20IP |
| | 3 | SMDH 250-3DF | ● | 87.0 | 174.5 | | | | | | | | |
| | 5 | SMDH 250-5DF | ● | 138.0 | 229.5 | | | | | | | | |
| | 8 | SMDH 250-8DF | ● | 216.0 | 304.5 | | | | | | | | |
| 25.8をこえ26.8以下 | 1.5 | SMDH 260-1.5DF | ● | 50.0 | 131.5 | 60 | 37 | 32 | MTL/MSL MEL | 1 | BXD04014IPC | 4.14~5.52 | TRDR20IP |
| | 3 | SMDH 260-3DF | ● | 90.0 | 179.7 | | | | | | | | |
| | 5 | SMDH 260-5DF | ● | 143.0 | 234.7 | | | | | | | | |
| | 8 | SMDH 260-8DF | ● | 224.0 | 314.7 | | | | | | | | |
| 26.8をこえ27.8以下 | 1.5 | SMDH 270-1.5DF | ● | 51.0 | 132.2 | 60 | 37 | 32 | MTL/MSL MEL | 1 | BXD04014IPC | 4.14~5.52 | TRDR20IP |
| | 3 | SMDH 270-3DF | ● | 93.0 | 179.9 | | | | | | | | |
| | 5 | SMDH 270-5DF | ● | 149.0 | 239.9 | | | | | | | | |
| | 8 | SMDH 270-8DF | ● | 232.0 | 324.9 | | | | | | | | |
| 27.8をこえ28.8以下 | 1.5 | SMDH 280-1.5DF | ● | 53.0 | 133.9 | 60 | 37 | 32 | MTL/MSL MEL | 1 | BXD04515IPC | 4.98~6.64 | TRDR25IP |
| | 3 | SMDH 280-3DF | ● | 96.0 | 185.1 | | | | | | | | |
| | 5 | SMDH 280-5DF | ● | 154.0 | 245.1 | | | | | | | | |
| | 8 | SMDH 280-8DF | ● | 240.0 | 330.1 | | | | | | | | |
| 28.8をこえ29.8以下 | 1.5 | SMDH 290-1.5DF | ● | 55.0 | 135.6 | 60 | 37 | 32 | MTL/MSL MEL | 1 | BXD04515IPC | 4.98~6.64 | TRDR25IP |
| | 3 | SMDH 290-3DF | ● | 99.0 | 190.3 | | | | | | | | |
| | 5 | SMDH 290-5DF | ● | 159.0 | 250.3 | | | | | | | | |
| | 8 | SMDH 290-8DF | ● | 248.0 | 340.3 | | | | | | | | |
| 29.8をこえ30.8以下 | 1.5 | SMDH 300-1.5DF | ● | 56.0 | 138.3 | 60 | 37 | 32 | MTL/MSL MEL | 1 | BXD04515IPC | 4.98~6.64 | TRDR25IP |
| | 3 | SMDH 300-3DF | ● | 103.0 | 190.5 | | | | | | | | |
| | 5 | SMDH 300-5DF | ● | 164.0 | 260.5 | | | | | | | | |
| | 8 | SMDH 300-8DF | ● | 257.0 | 350.5 | | | | | | | | |

推奨切削条件 P3 MTL型ヘッド P4 MSL型ヘッド P6 MEL型ヘッド P8

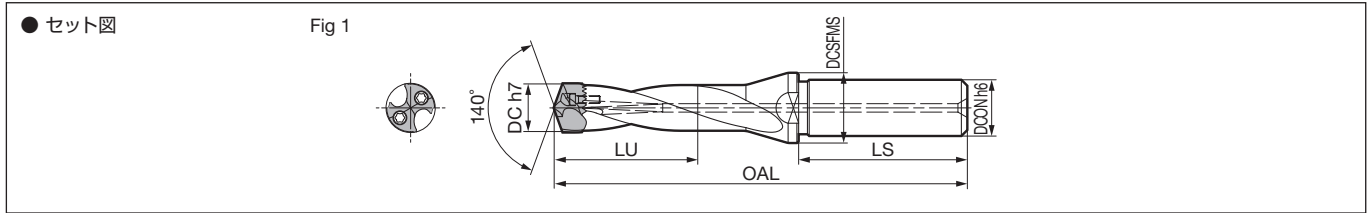
推奨締付けトルク(N·m)

*SMDH○○OSホルダは型番名称がSMDH○○○-1.5DFに変更になりました。仕様に変更はありません。

| | | | | | |
|-----------------------------|---------------|-------------|-------------|---------|------------|
| MTL 両手全鋼 ~0.2% | 両手全鋼 ~0.2% | 鋼質 鋼 | 高硬合金 HPC | 耐熱 鋼 | タタイル 鋼鉄 |
| MSL 両手全鋼 ~0.2% | 両手全鋼 ~0.2% | ステン レス鋼 | Ti合金 | 耐熱 鋼 | タタイル 鋼鉄 |
| MEL 両手全鋼 ~0.2% | 両手全鋼 ~0.2% | 高硬合金 HPC | ステン レス鋼 | Ti合金 | 耐熱 鋼 |



*h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 本体 φ12.0~21.5mm MTL型/MSL型/MEL型セット時寸法 寸法(mm) ■ 部品

| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | フランジ径 DCSFMS | シャンク径 DCON | 刃先交換 ヘッド | Fig | キャップスクリュー | | レンチ |
|---------------|--------------|---------------|----|-----------|-----------|------------|-----------------|---------------|----------------|-----|-------------|-----------|----------|
| | | | | | | | | | | | Fig | N·m | |
| 12.0以上12.5未満 | 1.5 | SMDH 120-1.5D | ● | 23.0 | 90.5 | | | | | 1 | | | |
| | 3 | SMDH 120-3D | ● | 42.0 | 107.2 | | | | | 1 | | | |
| | 5 | SMDH 120-5D | ● | 67.0 | 132.2 | 48 | 20 | 16 | MTL/MSL MEL | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 8 | SMDH 120-8D | ● | 98.0 | 164.4 | | | | | 1 | | | |
| | 12 | SMDH 120-12D | ● | 146.0 | 213.3 | | | | | 1 | | | |
| 12.5以上13.0未満 | 1.5 | SMDH 125-1.5D | ● | 24.0 | 91.0 | | | | | 1 | | | |
| | 3 | SMDH 125-3D | ● | 44.0 | 107.3 | | | | | 1 | | | |
| | 5 | SMDH 125-5D | ● | 69.0 | 132.3 | 48 | 20 | 16 | MTL/MSL MEL | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 8 | SMDH 125-8D | ● | 102.0 | 170.1 | | | | | 1 | | | |
| | 12 | SMDH 125-12D | ● | 152.0 | 219.5 | | | | | 1 | | | |
| 13.0以上13.5未満 | 1.5 | SMDH 130-1.5D | ● | 25.0 | 92.2 | | | | | 1 | | | |
| | 3 | SMDH 130-3D | ● | 45.0 | 112.4 | | | | | 1 | | | |
| | 5 | SMDH 130-5D | ● | 72.0 | 142.4 | 48 | 20 | 16 | MTL/MSL MEL | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 8 | SMDH 130-8D | ● | 106.0 | 178.4 | | | | | 1 | | | |
| | 12 | SMDH 130-12D | ● | 158.0 | 225.7 | | | | | 1 | | | |
| 13.5以上14.5以下 | 1.5 | SMDH 140-1.5D | ● | 29.0 | 96.3 | | | | | 1 | | | |
| | 3 | SMDH 140-3D | ● | 51.0 | 119.0 | | | | | 1 | | | |
| | 5 | SMDH 140-5D | ● | 80.0 | 149.0 | 48 | 20 | 16 | MTL/MSL MEL | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 8 | SMDH 140-8D | ● | 123.0 | 194.0 | | | | | 1 | | | |
| | 12 | SMDH 140-12D | ● | 170.0 | 238.5 | | | | | 1 | | | |
| 14.5をこえ15.5以下 | 1.5 | SMDH 150-1.5D | ● | 31.0 | 100.0 | | | | | 1 | | | |
| | 3 | SMDH 150-3D | ● | 54.0 | 129.2 | | | | | 1 | | | |
| | 5 | SMDH 150-5D | ● | 85.0 | 159.2 | 50 | 25 | 20 | MTL/MSL MEL | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 8 | SMDH 150-8D | ● | 131.0 | 204.2 | | | | | 1 | | | |
| | 12 | SMDH 150-12D | ● | 182.0 | 253.0 | | | | | 1 | | | |
| 15.5をこえ16.5以下 | 1.5 | SMDH 160-1.5D | ● | 32.0 | 102.7 | | | | | 1 | | | |
| | 3 | SMDH 160-3D | ● | 57.0 | 134.4 | | | | | 1 | | | |
| | 5 | SMDH 160-5D | ● | 90.0 | 169.4 | 50 | 25 | 20 | MTL/MSL MEL | 1 | BXD02509IPC | 0.93~1.24 | TRDR10IP |
| | 8 | SMDH 160-8D | ● | 140.0 | 214.4 | | | | | 1 | | | |
| | 12 | SMDH 160-12D | ● | 194.0 | 265.5 | | | | | 1 | | | |
| 16.5をこえ17.5以下 | 1.5 | SMDH 170-1.5D | ● | 34.0 | 104.4 | | | | | 1 | | | |
| | 3 | SMDH 170-3D | ● | 60.0 | 139.6 | | | | | 1 | | | |
| | 5 | SMDH 170-5D | ● | 95.0 | 174.6 | 50 | 25 | 20 | MTL/MSL MEL | 1 | BXD02509IPC | 0.93~1.24 | TRDR10IP |
| | 8 | SMDH 170-8D | ● | 148.0 | 224.6 | | | | | 1 | | | |
| | 12 | SMDH 170-12D | ● | 207.0 | 278.1 | | | | | 1 | | | |
| 17.5をこえ18.5以下 | 1.5 | SMDH 180-1.5D | ● | 36.0 | 107.1 | | | | | 1 | | | |
| | 3 | SMDH 180-3D | ● | 63.0 | 144.8 | | | | | 1 | | | |
| | 5 | SMDH 180-5D | ● | 100.0 | 179.8 | 50 | 25 | 20 | MTL/MSL MEL | 1 | BXD02509IPC | 0.93~1.24 | TRDR10IP |
| | 8 | SMDH 180-8D | ● | 156.0 | 229.8 | | | | | 1 | | | |
| | 12 | SMDH 180-12D | ● | 219.0 | 290.5 | | | | | 1 | | | |
| 18.5をこえ19.5以下 | 1.5 | SMDH 190-1.5D | ● | 37.0 | 114.8 | | | | | 1 | | | |
| | 3 | SMDH 190-3D | ● | 67.0 | 160.0 | | | | | 1 | | | |
| | 5 | SMDH 190-5D | ● | 106.0 | 195.0 | 56 | 30 | 25 | MTL/MSL MEL | 1 | BXD03011IPC | 1.83~2.44 | TRDR15IP |
| | 8 | SMDH 190-8D | ● | 164.0 | 255.0 | | | | | 1 | | | |
| | 12 | SMDH 190-12D | ● | 231.0 | 309.1 | | | | | 1 | | | |
| 19.5をこえ20.5以下 | 1.5 | SMDH 200-1.5D | ● | 39.0 | 117.4 | | | | | 1 | | | |
| | 3 | SMDH 200-3D | ● | 70.0 | 160.1 | | | | | 1 | | | |
| | 5 | SMDH 200-5D | ● | 111.0 | 200.1 | 56 | 30 | 25 | MTL/MSL MEL | 1 | BXD03011IPC | 1.83~2.44 | TRDR15IP |
| | 8 | SMDH 200-8D | ● | 172.0 | 265.1 | | | | | 1 | | | |
| | 12 | SMDH 200-12D | ● | 243.0 | 321.4 | | | | | 1 | | | |
| 20.5をこえ21.5以下 | 1.5 | SMDH 210-1.5D | ● | 41.0 | 119.1 | | | | | 1 | | | |
| | 3 | SMDH 210-3D | ● | 73.0 | 160.3 | | | | | 1 | | | |
| | 5 | SMDH 210-5D | ● | 116.0 | 200.3 | 56 | 30 | 25 | MTL/MSL MEL | 1 | BXD03011IPC | 1.83~2.44 | TRDR15IP |
| | 8 | SMDH 210-8D | ● | 180.0 | 270.3 | | | | | 1 | | | |
| | 12 | SMDH 210-12D | ● | 255.0 | 333.9 | | | | | 1 | | | |

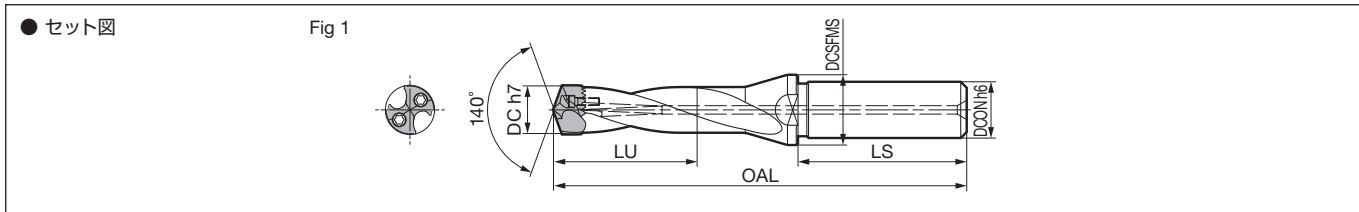
推奨切削条件 P3 MTL型ヘッド P4 MSL型ヘッド P6 MEL型ヘッド P8

推奨締め付けトルク(N·m)

| | | | | | | |
|------------|---------------|---------------|-------------------|-------------|---------|------------|
| MTL | 鉄合金類 ~0.2% | 鉄合金類 0.2%~ | 銅質 鋼 | 高硬度鋼 HRC | 鋳鉄 | タタイル 鋳鉄 |
| MSL | 鉄合金類 ~0.2% | 鉄合金類 0.2%~ | ステン レス鋼 | Ti合金 | 耐熱 鋼 | タタイル 鋳鉄 |
| MEL | 鉄合金類 ~0.2% | 鉄合金類 0.2%~ | 高硬度鋼 ~5 HRC | ステン レス鋼 | Ti合金 | 耐熱 鋼 |



*h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 本体 ø21.5~30.8mm MTL型/MSL型/MEL型セット時寸法 寸法(mm) ■ 部品

| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | フランジ径 DCSFMS | シャンク径 DCON | 刃先交換 ヘッド | Fig | キャップスクリュー | | レンチ |
|---------------|--------------|---------------|----|-----------|-----------|------------|-----------------|---------------|----------------|-----|-------------|-----------|----------|
| | | | | | | | | | | | 5L2 | (N·m) | |
| 21.5をこえ22.8以下 | 1.5 | SMDH 220-1.5D | ● | 43.0 | 120.9 | | | | | 1 | BXD03512IPC | 2.79~3.72 | TRDR15IP |
| | 3 | SMDH 220-3D | ● | 77.0 | 165.1 | | | | | 1 | | | |
| | 5 | SMDH 220-5D | ● | 123.0 | 205.1 | 56 | 30 | 25 | MTL/MSL MEL | 1 | | | |
| | 8 | SMDH 220-8D | ● | 191.0 | 275.1 | | | | | 1 | | | |
| | 12 | SMDH 220-12D | ● | 268.0 | 347.0 | | | | | 1 | | | |
| 22.8をこえ23.8以下 | 1.5 | SMDH 230-1.5D | ● | 45.0 | 122.0 | | | | | 1 | BXD03512IPC | 2.79~3.72 | TRDR15IP |
| | 3 | SMDH 230-3D | ● | 80.0 | 164.7 | | | | | 1 | | | |
| | 5 | SMDH 230-5D | ● | 128.0 | 214.7 | 56 | 30 | 25 | MTL/MSL MEL | 1 | | | |
| | 8 | SMDH 230-8D | ● | 199.0 | 284.7 | | | | | 1 | | | |
| | 12 | SMDH 230-12D | ● | 280.0 | 359.0 | | | | | 1 | | | |
| 23.8をこえ24.8以下 | 1.5 | SMDH 240-1.5D | ● | 46.0 | 128.4 | | | | | 1 | BXD03512IPC | 2.79~3.72 | TRDR15IP |
| | 3 | SMDH 240-3D | ● | 83.0 | 174.6 | | | | | 1 | | | |
| | 5 | SMDH 240-5D | ● | 133.0 | 224.6 | 60 | 37 | 32 | MTL/MSL MEL | 1 | | | |
| | 8 | SMDH 240-8D | ● | 207.0 | 299.6 | | | | | 1 | | | |
| | 12 | SMDH 240-12D | ● | 292.0 | 376.1 | | | | | 1 | | | |
| 24.8をこえ25.8以下 | 1.5 | SMDH 250-1.5D | ● | 48.0 | 128.8 | | | | | 1 | BXD04014IPC | 4.14~5.52 | TRDR20IP |
| | 3 | SMDH 250-3D | ● | 87.0 | 174.5 | | | | | 1 | | | |
| | 5 | SMDH 250-5D | ● | 138.0 | 229.5 | 60 | 37 | 32 | MTL/MSL MEL | 1 | | | |
| | 8 | SMDH 250-8D | ● | 216.0 | 304.5 | | | | | 1 | | | |
| | 12 | SMDH 250-12D | ● | 304.0 | 388.3 | | | | | 1 | | | |
| 25.8をこえ26.8以下 | 1.5 | SMDH 260-1.5D | ● | 50.0 | 131.5 | | | | | 1 | BXD04014IPC | 4.14~5.52 | TRDR20IP |
| | 3 | SMDH 260-3D | ● | 90.0 | 179.7 | | | | | 1 | | | |
| | 5 | SMDH 260-5D | ● | 143.0 | 234.7 | 60 | 37 | 32 | MTL/MSL MEL | 1 | | | |
| | 8 | SMDH 260-8D | ● | 224.0 | 314.7 | | | | | 1 | | | |
| | 12 | SMDH 260-12D | ● | 316.0 | 400.8 | | | | | 1 | | | |
| 26.8をこえ27.8以下 | 1.5 | SMDH 270-1.5D | ● | 51.0 | 132.2 | | | | | 1 | BXD04014IPC | 4.14~5.52 | TRDR20IP |
| | 3 | SMDH 270-3D | ● | 93.0 | 179.9 | | | | | 1 | | | |
| | 5 | SMDH 270-5D | ● | 149.0 | 239.9 | 60 | 37 | 32 | MTL/MSL MEL | 1 | | | |
| | 8 | SMDH 270-8D | ● | 232.0 | 324.9 | | | | | 1 | | | |
| | 12 | SMDH 270-12D | ● | 328.0 | 413.3 | | | | | 1 | | | |
| 27.8をこえ28.8以下 | 1.5 | SMDH 280-1.5D | ● | 53.0 | 133.9 | | | | | 1 | BXD04515IPC | 4.98~6.64 | TRDR25IP |
| | 3 | SMDH 280-3D | ● | 96.0 | 185.1 | | | | | 1 | | | |
| | 5 | SMDH 280-5D | ● | 154.0 | 245.1 | 60 | 37 | 32 | MTL/MSL MEL | 1 | | | |
| | 8 | SMDH 280-8D | ● | 240.0 | 330.1 | | | | | 1 | | | |
| | 12 | SMDH 280-12D | ● | 341.0 | 425.8 | | | | | 1 | | | |
| 28.8をこえ29.8以下 | 1.5 | SMDH 290-1.5D | ● | 55.0 | 135.6 | | | | | 1 | BXD04515IPC | 4.98~6.64 | TRDR25IP |
| | 3 | SMDH 290-3D | ● | 99.0 | 190.3 | | | | | 1 | | | |
| | 5 | SMDH 290-5D | ● | 159.0 | 250.3 | 60 | 37 | 32 | MTL/MSL MEL | 1 | | | |
| | 8 | SMDH 290-8D | ● | 248.0 | 340.3 | | | | | 1 | | | |
| | 12 | SMDH 290-12D | ● | 353.0 | 438.4 | | | | | 1 | | | |
| 29.8をこえ30.8以下 | 1.5 | SMDH 300-1.5D | ● | 56.0 | 138.3 | | | | | 1 | BXD04515IPC | 4.98~6.64 | TRDR25IP |
| | 3 | SMDH 300-3D | ● | 103.0 | 190.5 | | | | | 1 | | | |
| | 5 | SMDH 300-5D | ● | 164.0 | 260.5 | 60 | 37 | 32 | MTL/MSL MEL | 1 | | | |
| | 8 | SMDH 300-8D | ● | 257.0 | 350.5 | | | | | 1 | | | |
| | 12 | SMDH 300-12D | ● | 365.0 | 450.8 | | | | | 1 | | | |

推奨切削条件 P3 MTL型ヘッド P4 MSL型ヘッド P6 MEL型ヘッド P8

推奨締付けトルク(N·m)

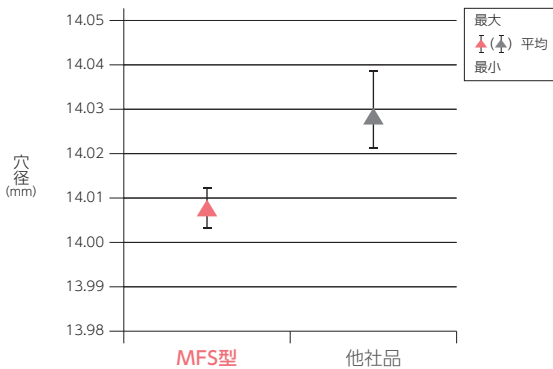
MFS型 非平面への穴あけ、バリ対策に最適



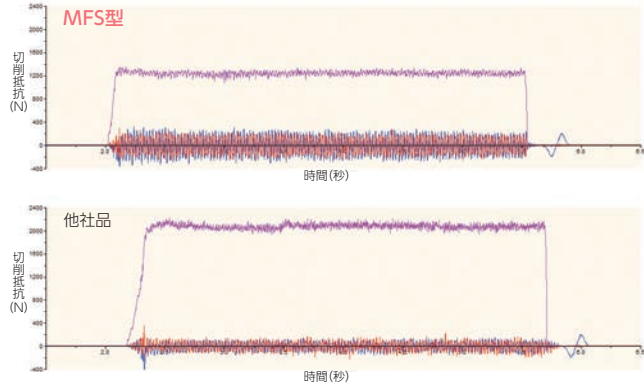
- **先端角180°設計で様々な穴あけに対応**
高能率座ぐり加工、傾斜面や円筒面などの非平面への穴あけ、断続穴あけなどに対応。出口側バリの抑制にも効果を発揮。
- **加工の安定性向上**
底面に肉厚を持たせたRSシンニングを採用し、高剛性を実現。

■ 性能

穴径精度比較



切削抵抗比較



使用工具: SMDH140-1.5DF + SMDT1400MFS
被削材: S50C
切削条件: vc=100mm/min f=0.15mm/rev 穴深さ21mm Wet

■ MFS型ヘッドご使用上の注意

| 加工用途 | ガイド穴無し(無垢穴加工) | | ガイド穴有り | | 穴底フラット仕上げ |
|-----------|---------------|-----|------------|------|-----------|
| | 平面 | 非平面 | ガイド穴 | ガイド穴 | |
| 1.5Dホルダ | ○ | ○ | ○ (ガイド穴不要) | ○ | ○ |
| 3D~12Dホルダ | × | × | × | × | ○ |

■ 推奨切削条件(MFS型)

(n: 回転速度 min⁻¹ vc: 切削速度 m/min f: 送り量 mm/rev)

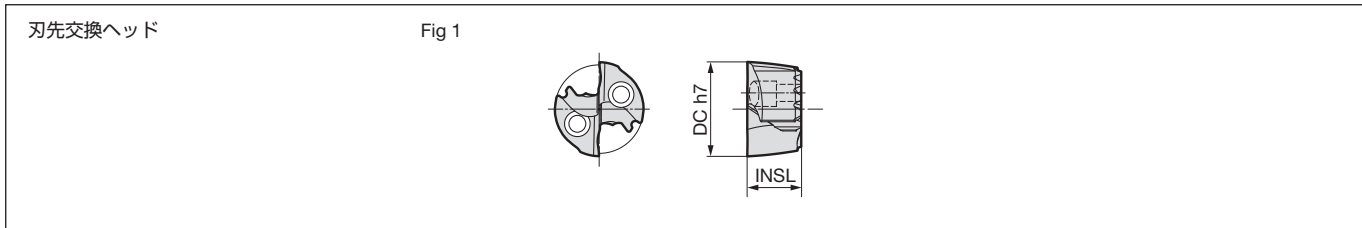
| 被削材 | 軟鋼 (~250HB) | | 一般鋼 (250~320HB) | | 高硬度鋼 (45HRC) | | ステンレス鋼 (~200HB) | | ねずみ鋳鉄 | | ダクタイル鋳鉄 | | アルミニウム合金* | |
|-------|-------------|------|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------|----------|-----------|----------|
| | 刃径 DC(mm) | 切削条件 | 下限-推奨-上限 | 下限-推奨-上限 | 下限-推奨-上限 | 下限-推奨-上限 | 下限-推奨-上限 | 下限-推奨-上限 | 下限-推奨-上限 | 下限-推奨-上限 | 下限-推奨-上限 | 下限-推奨-上限 | 下限-推奨-上限 | 下限-推奨-上限 |
| φ16.0 | n | | 2,000 | 2,000 | 1,200 | 1,200 | 1,200 | 1,200 | 1,400 | 1,200 | 1,200 | 4,800 | | |
| | vc | | 60-100-120 | 70-100-120 | 40-60-90 | 50-60-80 | 50-70-90 | 50-60-80 | 50-70-90 | 200-240-260 | | | | |
| | f | | 0.15-0.20-0.35 | 0.15-0.20-0.30 | 0.10-0.15-0.20 | 0.10-0.15-0.20 | 0.20-0.25-0.30 | 0.20-0.25-0.30 | 0.20-0.25-0.30 | 0.35-0.45-0.55 | | | | |
| φ20.0 | n | | 1,600 | 1,600 | 1,000 | 1,100 | 1,300 | 1,100 | 1,300 | 1,100 | 1,100 | 3,800 | | |
| | vc | | 80-100-120 | 70-100-120 | 40-60-90 | 60-70-90 | 60-80-100 | 50-70-90 | 50-70-90 | 200-240-260 | | | | |
| | f | | 0.15-0.25-0.35 | 0.15-0.25-0.35 | 0.15-0.20-0.25 | 0.15-0.20-0.25 | 0.20-0.30-0.35 | 0.20-0.25-0.35 | 0.20-0.25-0.35 | 0.35-0.50-0.60 | | | | |
| φ30.8 | n | | 1,000 | 1,000 | 600 | 700 | 800 | 700 | 700 | 2,500 | | | | |
| | vc | | 80-100-120 | 70-100-120 | 40-60-90 | 60-70-90 | 60-80-100 | 50-70-90 | 50-70-90 | 200-240-260 | | | | |
| | f | | 0.20-0.30-0.35 | 0.20-0.25-0.35 | 0.15-0.20-0.25 | 0.15-0.20-0.25 | 0.20-0.30-0.40 | 0.25-0.30-0.35 | 0.35-0.50-0.60 | | | | | |

注記: 推奨穴深さは2xDCです。傾斜面加工時はワーク最上部分からの深さです。切削条件は平面への穴あけ時の推奨です。
傾斜面に対する穴加工時は、傾斜角度により送り速度を調整ください。傾斜角度が30°以下では、送り速度を70%以下に設定してください。
傾斜角度が30°を超える場合には送り速度を50%以下に設定してください。本製品は穴あけ加工用工具です。
横送りやヘリカル等の加工はできません。

*アルミニウム合金用特殊刃型のご用命はお問合せ願います。



*h7公差は総合カタログN章一般資料編をご覧ください。



■ 刃先交換ヘッド MFS型 刃径φ12.0~21.5mm 寸法(mm)

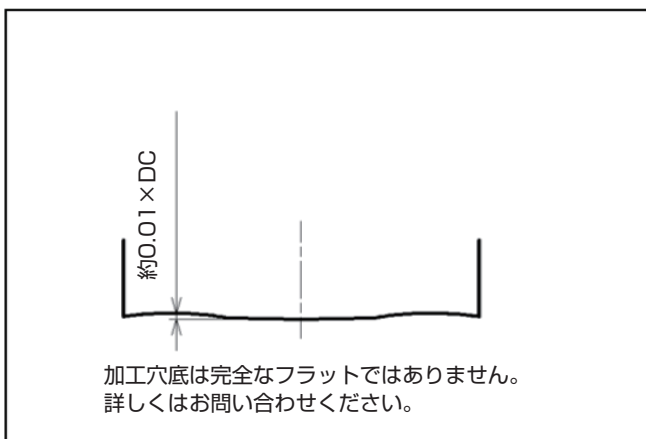
| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 適用ホルダ | Fig |
|-------|----|---------------|-----------|----------|-----|
| 12.0 | ● | SMDT 1200 MFS | 7.1 | SMDH120□ | 1 |
| 12.5 | ● | SMDT 1250 MFS | 7.2 | SMDH125□ | 1 |
| 13.0 | ● | SMDT 1300 MFS | 7.5 | SMDH130□ | 1 |
| 13.5 | ● | SMDT 1350 MFS | | | 1 |
| 14.0 | ● | SMDT 1400 MFS | 7.9 | SMDH140□ | 1 |
| 14.5 | ● | SMDT 1450 MFS | | | 1 |
| 15.0 | ● | SMDT 1500 MFS | | | 1 |
| 15.5 | ● | SMDT 1550 MFS | 8.3 | SMDH150□ | 1 |
| 16.0 | ● | SMDT 1600 MFS | | | 1 |
| 16.5 | ● | SMDT 1650 MFS | 8.8 | SMDH160□ | 1 |
| 17.0 | ● | SMDT 1700 MFS | | | 1 |
| 17.5 | ● | SMDT 1750 MFS | 9.3 | SMDH170□ | 1 |
| 18.0 | ● | SMDT 1800 MFS | | | 1 |
| 18.5 | ● | SMDT 1850 MFS | 9.8 | SMDH180□ | 1 |
| 19.0 | ● | SMDT 1900 MFS | | | 1 |
| 19.5 | ● | SMDT 1950 MFS | 10.2 | SMDH190□ | 1 |
| 20.0 | ● | SMDT 2000 MFS | | | 1 |
| 20.5 | ● | SMDT 2050 MFS | 10.7 | SMDH200□ | 1 |
| 21.0 | ● | SMDT 2100 MFS | | | 1 |
| 21.5 | ● | SMDT 2150 MFS | 11.2 | SMDH210□ | 1 |

材種 ACX70 推奨切削条件 P16 適用ホルダ P18

■ 刃先交換ヘッド MFS型 刃径φ22.0~30.0mm 寸法(mm)

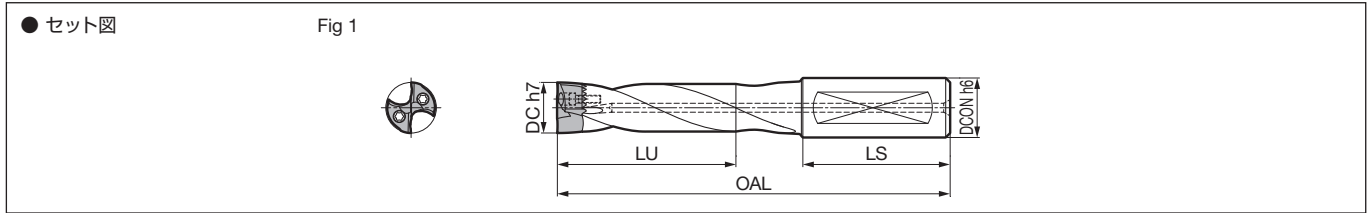
| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 適用ホルダ | Fig |
|-------|----|---------------|-----------|----------|-----|
| 22.0 | ● | SMDT 2200 MFS | | | 1 |
| 22.5 | ● | SMDT 2250 MFS | 11.2 | SMDH220□ | 1 |
| 23.0 | ● | SMDT 2300 MFS | | | 1 |
| 23.5 | ● | SMDT 2350 MFS | | | 1 |
| 24.0 | ● | SMDT 2400 MFS | 11.3 | SMDH240□ | 1 |
| 24.5 | ● | SMDT 2450 MFS | | | 1 |
| 25.0 | ● | SMDT 2500 MFS | 11.7 | SMDH250□ | 1 |
| 25.5 | ● | SMDT 2550 MFS | | | 1 |
| 26.0 | ● | SMDT 2600 MFS | 12.2 | SMDH260□ | 1 |
| 26.5 | ● | SMDT 2650 MFS | | | 1 |
| 27.0 | ● | SMDT 2700 MFS | 12.7 | SMDH270□ | 1 |
| 27.5 | ● | SMDT 2750 MFS | | | 1 |
| 28.0 | ● | SMDT 2800 MFS | 13.2 | SMDH280□ | 1 |
| 28.5 | ● | SMDT 2850 MFS | | | 1 |
| 29.0 | ● | SMDT 2900 MFS | 13.6 | SMDH290□ | 1 |
| 29.5 | ● | SMDT 2950 MFS | | | 1 |
| 30.0 | ● | SMDT 3000 MFS | 14.1 | SMDH300□ | 1 |

材種 ACX70 推奨切削条件 P16 適用ホルダ P18





*h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 本体 ø12.0~29.8mm MFS型セット時寸法

寸法(mm)

■ 部品

| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | シャンク径 DCON | 刃先交換ヘッド | Fig | キャップスクリュー | | レンチ |
|---------------|-----------|-----------|----|--------|--------|---------|------------|---------|-----|------------|-----------|----------|
| | | | | | | | | | | | N·m | |
| 12.0以上12.5未満 | 3 | SMDH 120M | ● | 40.0 | 105.2 | 48 | 16 | MFS | 1 | BXD02208IP | 0.75~1.00 | TRDR08IP |
| | 5 | SMDH 120L | ● | 65.0 | 130.2 | | | | | | | |
| 12.5以上13.0未満 | 3 | SMDH 125M | ● | 41.0 | 105.1 | 48 | 16 | MFS | 1 | BXD02208IP | 0.75~1.00 | TRDR08IP |
| | 5 | SMDH 125L | ● | 67.0 | 130.1 | | | | | | | |
| 13.0以上13.5未満 | 3 | SMDH 130M | ● | 43.0 | 110.2 | 48 | 16 | MFS | 1 | BXD02208IP | 0.75~1.00 | TRDR08IP |
| | 5 | SMDH 130L | ● | 70.0 | 140.2 | | | | | | | |
| 13.5以上14.5以下 | 3 | SMDH 140M | ● | 48.0 | 116.6 | 48 | 16 | MFS | 1 | BXD02208IP | 0.75~1.00 | TRDR08IP |
| | 5 | SMDH 140L | ● | 77.0 | 146.6 | | | | | | | |
| | 8 | SMDH 140D | ● | 121.0 | 191.6 | | | | | | | |
| 14.5をこえ15.5以下 | 3 | SMDH 150M | ● | 51.0 | 126.6 | 50 | 20 | MFS | 1 | BXD02208IP | 0.75~1.00 | TRDR08IP |
| | 5 | SMDH 150L | ● | 82.0 | 156.6 | | | | | | | |
| | 8 | SMDH 150D | ● | 129.0 | 201.6 | | | | | | | |
| 15.5をこえ16.5以下 | 3 | SMDH 160M | ● | 54.0 | 131.6 | 50 | 20 | MFS | 1 | BXD02509IP | 0.93~1.24 | TRDR10IP |
| | 5 | SMDH 160L | ● | 87.0 | 166.6 | | | | | | | |
| | 8 | SMDH 160D | ● | 137.0 | 211.6 | | | | | | | |
| 16.5をこえ17.5以下 | 3 | SMDH 170M | ● | 57.0 | 136.6 | 50 | 20 | MFS | 1 | BXD02509IP | 0.93~1.24 | TRDR10IP |
| | 5 | SMDH 170L | ● | 92.0 | 171.6 | | | | | | | |
| | 8 | SMDH 170D | ● | 145.0 | 221.6 | | | | | | | |
| 17.5をこえ18.5以下 | 3 | SMDH 180M | ● | 60.0 | 141.7 | 50 | 20 | MFS | 1 | BXD02509IP | 0.93~1.24 | TRDR10IP |
| | 5 | SMDH 180L | ● | 97.0 | 176.7 | | | | | | | |
| | 8 | SMDH 180D | ● | 153.0 | 226.7 | | | | | | | |
| 18.5をこえ19.5以下 | 3 | SMDH 190M | ● | 63.0 | 156.6 | 56 | 25 | MFS | 1 | BXD03011IP | 1.83~2.44 | TRDR15IP |
| | 5 | SMDH 190L | ● | 102.0 | 191.6 | | | | | | | |
| | 8 | SMDH 190D | ● | 161.0 | 251.6 | | | | | | | |
| 19.5をこえ20.5以下 | 3 | SMDH 200M | ● | 66.0 | 156.7 | 56 | 25 | MFS | 1 | BXD03011IP | 1.83~2.44 | TRDR15IP |
| | 5 | SMDH 200L | ● | 107.0 | 196.7 | | | | | | | |
| | 8 | SMDH 200D | ● | 169.0 | 261.7 | | | | | | | |
| 20.5をこえ21.5以下 | 3 | SMDH 210M | ● | 69.0 | 156.7 | 56 | 25 | MFS | 1 | BXD03011IP | 1.83~2.44 | TRDR15IP |
| | 5 | SMDH 210L | ● | 112.0 | 196.7 | | | | | | | |
| | 8 | SMDH 210D | ● | 177.0 | 266.7 | | | | | | | |
| 21.5をこえ22.8以下 | 3 | SMDH 220M | ● | 73.0 | 161.3 | 56 | 25 | MFS | 1 | BXD03512IP | 2.79~3.72 | TRDR15IP |
| | 5 | SMDH 220L | ● | 119.0 | 201.3 | | | | | | | |
| | 8 | SMDH 220D | ● | 187.0 | 271.3 | | | | | | | |
| 22.8をこえ23.8以下 | 3 | SMDH 230M | ● | 76.0 | 160.7 | 56 | 25 | MFS | 1 | BXD03512IP | 2.79~3.72 | TRDR15IP |
| | 5 | SMDH 230L | ● | 124.0 | 210.7 | | | | | | | |
| | 8 | SMDH 230D | ● | 195.0 | 280.7 | | | | | | | |
| 23.8をこえ24.8以下 | 3 | SMDH 240M | ● | 79.0 | 170.5 | 60 | 32 | MFS | 1 | BXD03512IP | 2.79~3.72 | TRDR15IP |
| | 5 | SMDH 240L | ● | 129.0 | 220.5 | | | | | | | |
| | 8 | SMDH 240D | ● | 203.0 | 295.5 | | | | | | | |
| 24.8をこえ25.8以下 | 3 | SMDH 250M | ● | 82.0 | 170.4 | 60 | 32 | MFS | 1 | BXD04014IP | 4.14~5.52 | TRDR20IP |
| | 5 | SMDH 250L | ● | 134.0 | 225.4 | | | | | | | |
| | 8 | SMDH 250D | ● | 211.0 | 300.4 | | | | | | | |
| 25.8をこえ26.8以下 | 3 | SMDH 260M | ● | 85.0 | 175.5 | 60 | 32 | MFS | 1 | BXD04014IP | 4.14~5.52 | TRDR20IP |
| | 5 | SMDH 260L | ● | 139.0 | 230.5 | | | | | | | |
| | 8 | SMDH 260D | ● | 219.0 | 310.5 | | | | | | | |
| 26.8をこえ27.8以下 | 3 | SMDH 270M | ● | 88.0 | 175.5 | 60 | 32 | MFS | 1 | BXD04014IP | 4.14~5.52 | TRDR20IP |
| | 5 | SMDH 270L | ● | 144.0 | 235.5 | | | | | | | |
| | 8 | SMDH 270D | ● | 227.0 | 320.5 | | | | | | | |
| 27.8をこえ28.8以下 | 3 | SMDH 280M | ● | 91.0 | 180.6 | 60 | 32 | MFS | 1 | BXD04515IP | 4.98~6.64 | TRDR25IP |
| | 5 | SMDH 280L | ● | 149.0 | 240.6 | | | | | | | |
| | 8 | SMDH 280D | ● | 235.0 | 325.6 | | | | | | | |
| 28.8をこえ29.8以下 | 3 | SMDH 290M | ● | 94.0 | 185.4 | 60 | 32 | MFS | 1 | BXD04515IP | 4.98~6.64 | TRDR25IP |
| | 5 | SMDH 290L | ● | 154.0 | 245.4 | | | | | | | |
| | 8 | SMDH 290D | ● | 243.0 | 335.4 | | | | | | | |

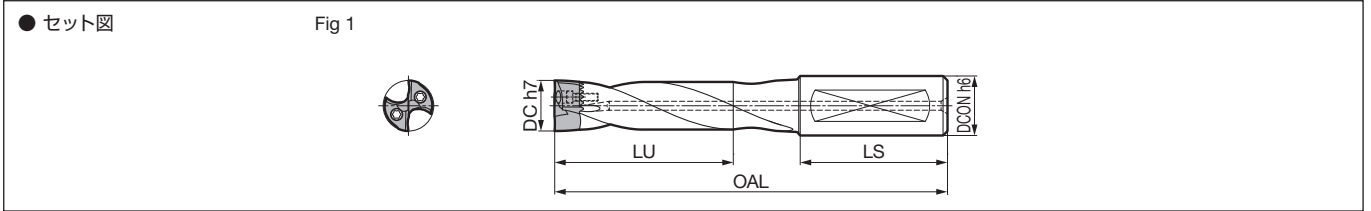
推奨切削条件 P16

MFS型ヘッド P17

推奨締め付けトルク(N·m)



*h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 本体 ø29.8~30.8mm MFS型セット時寸法

寸法(mm)

■ 部品

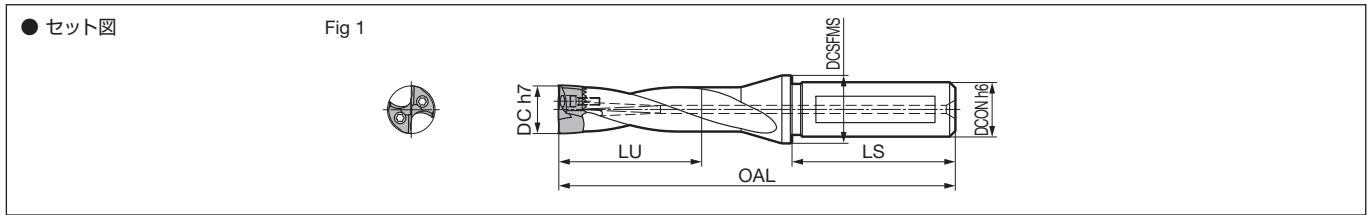
| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | シャンク径 DCON | 刃先交換ヘッド | Fig | 部品 | |
|---------------|-----------|-----------|----|--------|--------|---------|------------|---------|-----|------------|----------|
| | | | | | | | | | | キャップスクリュー | レンチ |
| 29.8をこえ30.8以下 | 3 | SMDH 300M | ● | 97.0 | 185.6 | | | | 1 | | |
| | 5 | SMDH 300L | ● | 159.0 | 255.6 | 60 | 32 | MFS | 1 | BXD04515IP | TRDR25IP |
| | 8 | SMDH 300D | ● | 251.0 | 345.6 | | | | 1 | | |

推奨切削条件 P16 MFS型ヘッド P17

推奨締め付けトルク(N・m)



*h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 本体 ø12.0~24.8mm MFS型セット時寸法

寸法(mm)

■ 部品

| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | フランジ径 DCSFMS | シャンク径 DCON | 刃先交換ヘッド | Fig | キャップスクリュー | | レンチ |
|---------------|-----------|----------------|----|--------|--------|---------|--------------|------------|---------|-----|-------------|-----------|----------|
| | | | | | | | | | | | Fig | N·m | |
| 12.0以上12.5未満 | 1.5 | SMDH 120-1.5DF | ● | 21.0 | 88.5 | | | | | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 3 | SMDH 120-3DF | ● | 40.0 | 105.2 | 48 | 20 | 16 | MFS | 1 | | | |
| | 5 | SMDH 120-5DF | ● | 65.0 | 130.2 | | | | | 1 | | | |
| | 8 | SMDH 120-8DF | ● | 96.0 | 162.4 | | | | | 1 | | | |
| 12.5以上13.0未満 | 1.5 | SMDH 125-1.5DF | ● | 22.0 | 88.8 | | | | | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 3 | SMDH 125-3DF | ● | 41.0 | 105.1 | 48 | 20 | 16 | MFS | 1 | | | |
| | 5 | SMDH 125-5DF | ● | 67.0 | 130.1 | | | | | 1 | | | |
| | 8 | SMDH 125-8DF | ● | 100.0 | 167.9 | | | | | 1 | | | |
| 13.0以上13.5未満 | 1.5 | SMDH 130-1.5DF | ● | 23.0 | 90.0 | | | | | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 3 | SMDH 130-3DF | ● | 43.0 | 110.2 | 48 | 20 | 16 | MFS | 1 | | | |
| | 5 | SMDH 130-5DF | ● | 70.0 | 140.2 | | | | | 1 | | | |
| | 8 | SMDH 130-8DF | ● | 104.0 | 176.2 | | | | | 1 | | | |
| 13.5以上14.5以下 | 1.5 | SMDH 140-1.5DF | ● | 26.0 | 93.9 | | | | | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 3 | SMDH 140-3DF | ● | 48.0 | 116.6 | 48 | 20 | 16 | MFS | 1 | | | |
| | 5 | SMDH 140-5DF | ● | 77.0 | 146.6 | | | | | 1 | | | |
| | 8 | SMDH 140-8DF | ● | 121.0 | 191.6 | | | | | 1 | | | |
| 14.5をこえ15.5以下 | 1.5 | SMDH 150-1.5DF | ● | 28.0 | 97.3 | | | | | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 3 | SMDH 150-3DF | ● | 51.0 | 126.6 | 50 | 25 | 20 | MFS | 1 | | | |
| | 5 | SMDH 150-5DF | ● | 82.0 | 156.6 | | | | | 1 | | | |
| | 8 | SMDH 150-8DF | ● | 129.0 | 201.6 | | | | | 1 | | | |
| 15.5をこえ16.5以下 | 1.5 | SMDH 160-1.5DF | ● | 29.0 | 99.9 | | | | | 1 | BXD02509IPC | 0.93~1.24 | TRDR10IP |
| | 3 | SMDH 160-3DF | ● | 54.0 | 131.6 | 50 | 25 | 20 | MFS | 1 | | | |
| | 5 | SMDH 160-5DF | ● | 87.0 | 166.6 | | | | | 1 | | | |
| | 8 | SMDH 160-8DF | ● | 137.0 | 211.6 | | | | | 1 | | | |
| 16.5をこえ17.5以下 | 1.5 | SMDH 170-1.5DF | ● | 31.0 | 101.4 | | | | | 1 | BXD02509IPC | 0.93~1.24 | TRDR10IP |
| | 3 | SMDH 170-3DF | ● | 57.0 | 136.6 | 50 | 25 | 20 | MFS | 1 | | | |
| | 5 | SMDH 170-5DF | ● | 92.0 | 171.6 | | | | | 1 | | | |
| | 8 | SMDH 170-8DF | ● | 145.0 | 221.6 | | | | | 1 | | | |
| 17.5をこえ18.5以下 | 1.5 | SMDH 180-1.5DF | ● | 32.0 | 104.0 | | | | | 1 | BXD02509IPC | 0.93~1.24 | TRDR10IP |
| | 3 | SMDH 180-3DF | ● | 60.0 | 141.7 | 50 | 25 | 20 | MFS | 1 | | | |
| | 5 | SMDH 180-5DF | ● | 97.0 | 176.7 | | | | | 1 | | | |
| | 8 | SMDH 180-8DF | ● | 153.0 | 226.7 | | | | | 1 | | | |
| 18.5をこえ19.5以下 | 1.5 | SMDH 190-1.5DF | ● | 34.0 | 111.4 | | | | | 1 | BXD03011IPC | 1.83~2.44 | TRDR15IP |
| | 3 | SMDH 190-3DF | ● | 63.0 | 156.6 | 56 | 30 | 25 | MFS | 1 | | | |
| | 5 | SMDH 190-5DF | ● | 102.0 | 191.6 | | | | | 1 | | | |
| | 8 | SMDH 190-8DF | ● | 161.0 | 251.6 | | | | | 1 | | | |
| 19.5をこえ20.5以下 | 1.5 | SMDH 200-1.5DF | ● | 35.0 | 114.0 | | | | | 1 | BXD03011IPC | 1.83~2.44 | TRDR15IP |
| | 3 | SMDH 200-3DF | ● | 66.0 | 156.7 | 56 | 30 | 25 | MFS | 1 | | | |
| | 5 | SMDH 200-5DF | ● | 107.0 | 196.7 | | | | | 1 | | | |
| | 8 | SMDH 200-8DF | ● | 169.0 | 261.7 | | | | | 1 | | | |
| 20.5をこえ21.5以下 | 1.5 | SMDH 210-1.5DF | ● | 37.0 | 115.5 | | | | | 1 | BXD03011IPC | 1.83~2.44 | TRDR15IP |
| | 3 | SMDH 210-3DF | ● | 69.0 | 156.7 | 56 | 30 | 25 | MFS | 1 | | | |
| | 5 | SMDH 210-5DF | ● | 112.0 | 196.7 | | | | | 1 | | | |
| | 8 | SMDH 210-8DF | ● | 177.0 | 266.7 | | | | | 1 | | | |
| 21.5をこえ22.8以下 | 1.5 | SMDH 220-1.5DF | ● | 39.0 | 117.1 | | | | | 1 | BXD03512IPC | 2.79~3.72 | TRDR15IP |
| | 3 | SMDH 220-3DF | ● | 73.0 | 161.3 | 56 | 30 | 25 | MFS | 1 | | | |
| | 5 | SMDH 220-5DF | ● | 119.0 | 201.3 | | | | | 1 | | | |
| | 8 | SMDH 220-8DF | ● | 187.0 | 271.3 | | | | | 1 | | | |
| 22.8をこえ23.8以下 | 1.5 | SMDH 230-1.5DF | ● | 40.0 | 118.0 | | | | | 1 | BXD03512IPC | 2.79~3.72 | TRDR15IP |
| | 3 | SMDH 230-3DF | ● | 76.0 | 160.7 | 56 | 30 | 25 | MFS | 1 | | | |
| | 5 | SMDH 230-5DF | ● | 124.0 | 210.7 | | | | | 1 | | | |
| | 8 | SMDH 230-8DF | ● | 195.0 | 280.7 | | | | | 1 | | | |
| 23.8をこえ24.8以下 | 1.5 | SMDH 240-1.5DF | ● | 42.0 | 124.3 | | | | | 1 | BXD03512IPC | 2.79~3.72 | TRDR15IP |
| | 3 | SMDH 240-3DF | ● | 79.0 | 170.5 | 60 | 37 | 32 | MFS | 1 | | | |
| | 5 | SMDH 240-5DF | ● | 129.0 | 220.5 | | | | | 1 | | | |
| | 8 | SMDH 240-8DF | ● | 203.0 | 295.5 | | | | | 1 | | | |

推奨切削条件 P16 MFS型ヘッド P17

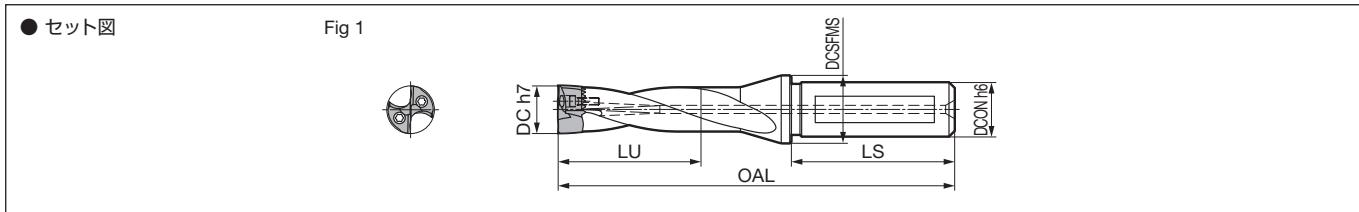
推奨締付トルク(N·m)

*SMDH○○○ホルダは型番名称がSMDH○○○-1.5DFに変更になりました。仕様に変更はありません。

●印:標準在庫品



*h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 本体 ø24.8~30.8mm MFS型セット時寸法

寸法(mm)

■ 部品

| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | フランジ径 DCSFMS | シャンク径 DCON | 刃先交換ヘッド | Fig | 部品 | | |
|---------------|-----------|----------------|----|--------|--------|---------|--------------|------------|---------|-----|-------------|-----------|----------|
| | | | | | | | | | | | キャップスクリュー | レンチ | |
| 24.8をこえ25.8以下 | 1.5 | SMDH 250-1.5DF | ● | 43.0 | 124.7 | 60 | 37 | 32 | MFS | 1 | BXD04014IPC | 4.14~5.52 | TRDR20IP |
| | 3 | SMDH 250-3DF | ● | 82.0 | 170.4 | | | | | | | | |
| | 5 | SMDH 250-5DF | ● | 134.0 | 225.4 | | | | | | | | |
| | 8 | SMDH 250-8DF | ● | 211.0 | 300.4 | | | | | | | | |
| 25.8をこえ26.8以下 | 1.5 | SMDH 260-1.5DF | ● | 45.0 | 127.3 | 60 | 37 | 32 | MFS | 1 | BXD04014IPC | 4.14~5.52 | TRDR20IP |
| | 3 | SMDH 260-3DF | ● | 85.0 | 175.5 | | | | | | | | |
| | 5 | SMDH 260-5DF | ● | 139.0 | 230.5 | | | | | | | | |
| | 8 | SMDH 260-8DF | ● | 219.0 | 310.5 | | | | | | | | |
| 26.8をこえ27.8以下 | 1.5 | SMDH 270-1.5DF | ● | 46.0 | 127.8 | 60 | 37 | 32 | MFS | 1 | BXD04014IPC | 4.14~5.52 | TRDR20IP |
| | 3 | SMDH 270-3DF | ● | 88.0 | 175.5 | | | | | | | | |
| | 5 | SMDH 270-5DF | ● | 144.0 | 235.5 | | | | | | | | |
| | 8 | SMDH 270-8DF | ● | 227.0 | 320.5 | | | | | | | | |
| 27.8をこえ28.8以下 | 1.5 | SMDH 280-1.5DF | ● | 48.0 | 129.4 | 60 | 37 | 32 | MFS | 1 | BXD04515IPC | 4.98~6.64 | TRDR25IP |
| | 3 | SMDH 280-3DF | ● | 91.0 | 180.6 | | | | | | | | |
| | 5 | SMDH 280-5DF | ● | 149.0 | 240.6 | | | | | | | | |
| | 8 | SMDH 280-8DF | ● | 235.0 | 325.6 | | | | | | | | |
| 28.8をこえ29.8以下 | 1.5 | SMDH 290-1.5DF | ● | 49.0 | 130.8 | 60 | 37 | 32 | MFS | 1 | BXD04515IPC | 4.98~6.64 | TRDR25IP |
| | 3 | SMDH 290-3DF | ● | 94.0 | 185.4 | | | | | | | | |
| | 5 | SMDH 290-5DF | ● | 154.0 | 245.4 | | | | | | | | |
| | 8 | SMDH 290-8DF | ● | 243.0 | 335.4 | | | | | | | | |
| 29.8をこえ30.8以下 | 1.5 | SMDH 300-1.5DF | ● | 51.0 | 133.4 | 60 | 37 | 32 | MFS | 1 | BXD04515IPC | 4.98~6.64 | TRDR25IP |
| | 3 | SMDH 300-3DF | ● | 97.0 | 185.6 | | | | | | | | |
| | 5 | SMDH 300-5DF | ● | 159.0 | 255.6 | | | | | | | | |
| | 8 | SMDH 300-8DF | ● | 251.0 | 345.6 | | | | | | | | |

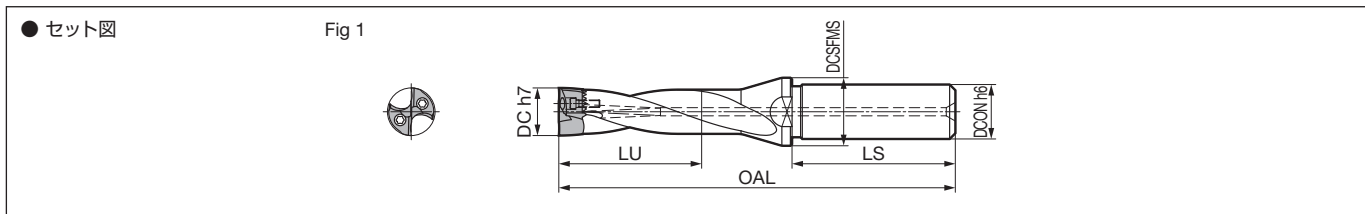
推奨切削条件 P16 MFS型ヘッド P17

推奨締付けトルク(N・m)

*SMDH○○○Sホルダは型番名称がSMDH○○○-1.5DFに変更になりました。仕様に変更はありません。



*h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 本体 ø12.0~21.5mm MFS型セット時寸法

寸法(mm)

■ 部品

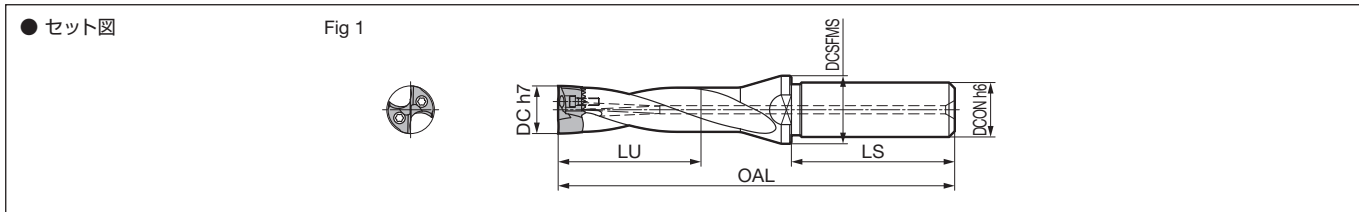
| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | フランジ径 DCSFMS | シャンク径 DCON | 刃先交換ヘッド | Fig | キャップスクリュー | | レンチ |
|---------------|-----------|---------------|----|--------|--------|---------|--------------|------------|---------|-----|-------------|-----------|----------|
| | | | | | | | | | | | Fig | N·m | |
| 12.0以上12.5未満 | 1.5 | SMDH 120-1.5D | ● | 21.0 | 88.5 | | | | | 1 | | | |
| | 3 | SMDH 120-3D | ● | 40.0 | 105.2 | | | | | 1 | | | |
| | 5 | SMDH 120-5D | ● | 65.0 | 130.2 | 48 | 20 | 16 | MFS | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 8 | SMDH 120-8D | ● | 96.0 | 162.4 | | | | | 1 | | | |
| | 12 | SMDH 120-12D | ● | 144.0 | 211.3 | | | | | 1 | | | |
| 12.5以上13.0未満 | 1.5 | SMDH 125-1.5D | ● | 22.0 | 88.8 | | | | | 1 | | | |
| | 3 | SMDH 125-3D | ● | 41.0 | 105.1 | | | | | 1 | | | |
| | 5 | SMDH 125-5D | ● | 67.0 | 130.1 | 48 | 20 | 16 | MFS | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 8 | SMDH 125-8D | ● | 100.0 | 167.9 | | | | | 1 | | | |
| | 12 | SMDH 125-12D | ● | 150.0 | 217.3 | | | | | 1 | | | |
| 13.0以上13.5未満 | 1.5 | SMDH 130-1.5D | ● | 23.0 | 90.0 | | | | | 1 | | | |
| | 3 | SMDH 130-3D | ● | 43.0 | 110.2 | | | | | 1 | | | |
| | 5 | SMDH 130-5D | ● | 70.0 | 140.2 | 48 | 20 | 16 | MFS | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 8 | SMDH 130-8D | ● | 104.0 | 176.2 | | | | | 1 | | | |
| | 12 | SMDH 130-12D | ● | 156.0 | 223.5 | | | | | 1 | | | |
| 13.5以上14.5以下 | 1.5 | SMDH 140-1.5D | ● | 26.0 | 93.9 | | | | | 1 | | | |
| | 3 | SMDH 140-3D | ● | 48.0 | 116.6 | | | | | 1 | | | |
| | 5 | SMDH 140-5D | ● | 77.0 | 146.6 | 48 | 20 | 16 | MFS | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 8 | SMDH 140-8D | ● | 121.0 | 191.6 | | | | | 1 | | | |
| | 12 | SMDH 140-12D | ● | 168.0 | 236.1 | | | | | 1 | | | |
| 14.5をこえ15.5以下 | 1.5 | SMDH 150-1.5D | ● | 28.0 | 97.3 | | | | | 1 | | | |
| | 3 | SMDH 150-3D | ● | 51.0 | 126.6 | | | | | 1 | | | |
| | 5 | SMDH 150-5D | ● | 82.0 | 156.6 | 50 | 25 | 20 | MFS | 1 | BXD02208IPC | 0.75~1.00 | TRDR08IP |
| | 8 | SMDH 150-8D | ● | 129.0 | 201.6 | | | | | 1 | | | |
| | 12 | SMDH 150-12D | ● | 180.0 | 250.4 | | | | | 1 | | | |
| 15.5をこえ16.5以下 | 1.5 | SMDH 160-1.5D | ● | 29.0 | 99.9 | | | | | 1 | | | |
| | 3 | SMDH 160-3D | ● | 54.0 | 131.6 | | | | | 1 | | | |
| | 5 | SMDH 160-5D | ● | 87.0 | 166.6 | 50 | 25 | 20 | MFS | 1 | BXD02509IPC | 0.93~1.24 | TRDR10IP |
| | 8 | SMDH 160-8D | ● | 137.0 | 211.6 | | | | | 1 | | | |
| | 12 | SMDH 160-12D | ● | 192.0 | 262.7 | | | | | 1 | | | |
| 16.5をこえ17.5以下 | 1.5 | SMDH 170-1.5D | ● | 31.0 | 101.4 | | | | | 1 | | | |
| | 3 | SMDH 170-3D | ● | 57.0 | 136.6 | | | | | 1 | | | |
| | 5 | SMDH 170-5D | ● | 92.0 | 171.6 | 50 | 25 | 20 | MFS | 1 | BXD02509IPC | 0.93~1.24 | TRDR10IP |
| | 8 | SMDH 170-8D | ● | 145.0 | 221.6 | | | | | 1 | | | |
| | 12 | SMDH 170-12D | ● | 204.0 | 275.1 | | | | | 1 | | | |
| 17.5をこえ18.5以下 | 1.5 | SMDH 180-1.5D | ● | 32.0 | 104.0 | | | | | 1 | | | |
| | 3 | SMDH 180-3D | ● | 60.0 | 141.7 | | | | | 1 | | | |
| | 5 | SMDH 180-5D | ● | 97.0 | 176.7 | 50 | 25 | 20 | MFS | 1 | BXD02509IPC | 0.93~1.24 | TRDR10IP |
| | 8 | SMDH 180-8D | ● | 153.0 | 226.7 | | | | | 1 | | | |
| | 12 | SMDH 180-12D | ● | 216.0 | 287.4 | | | | | 1 | | | |
| 18.5をこえ19.5以下 | 1.5 | SMDH 190-1.5D | ● | 34.0 | 111.4 | | | | | 1 | | | |
| | 3 | SMDH 190-3D | ● | 63.0 | 156.6 | | | | | 1 | | | |
| | 5 | SMDH 190-5D | ● | 102.0 | 191.6 | 56 | 30 | 25 | MFS | 1 | BXD03011IPC | 1.83~2.44 | TRDR15IP |
| | 8 | SMDH 190-8D | ● | 161.0 | 251.6 | | | | | 1 | | | |
| | 12 | SMDH 190-12D | ● | 228.0 | 305.7 | | | | | 1 | | | |
| 19.5をこえ20.5以下 | 1.5 | SMDH 200-1.5D | ● | 35.0 | 114.0 | | | | | 1 | | | |
| | 3 | SMDH 200-3D | ● | 66.0 | 156.7 | | | | | 1 | | | |
| | 5 | SMDH 200-5D | ● | 107.0 | 196.7 | 56 | 30 | 25 | MFS | 1 | BXD03011IPC | 1.83~2.44 | TRDR15IP |
| | 8 | SMDH 200-8D | ● | 169.0 | 261.7 | | | | | 1 | | | |
| | 12 | SMDH 200-12D | ● | 240.0 | 318.0 | | | | | 1 | | | |
| 20.5をこえ21.5以下 | 1.5 | SMDH 210-1.5D | ● | 37.0 | 115.5 | | | | | 1 | | | |
| | 3 | SMDH 210-3D | ● | 69.0 | 156.7 | | | | | 1 | | | |
| | 5 | SMDH 210-5D | ● | 112.0 | 196.7 | 56 | 30 | 25 | MFS | 1 | BXD03011IPC | 1.83~2.44 | TRDR15IP |
| | 8 | SMDH 210-8D | ● | 177.0 | 266.7 | | | | | 1 | | | |
| | 12 | SMDH 210-12D | ● | 252.0 | 330.3 | | | | | 1 | | | |

推奨切削条件 MFS型ヘッド

推奨締付けトルク(N·m)



*h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 本体 ø21.5~30.8mm MFS型セット時寸法

寸法(mm)

■ 部品

| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | フランジ径 DCSFMS | シャンク径 DCON | 刃先交換ヘッド | Fig | 部品 | | |
|---------------|-----------|---------------|----|--------|--------|---------|--------------|------------|---------|-----|-------------|-----------|----------|
| | | | | | | | | | | | キャップスクリュー | レンチ | |
| 21.5をこえ22.8以下 | 1.5 | SMDH 220-1.5D | ● | 39.0 | 117.1 | 56 | 30 | 25 | MFS | 1 | BXD03512IPC | 2.79~3.72 | TRDR15IP |
| | 3 | SMDH 220-3D | ● | 73.0 | 161.3 | | | | | | | | |
| | 5 | SMDH 220-5D | ● | 119.0 | 201.3 | | | | | | | | |
| | 8 | SMDH 220-8D | ● | 187.0 | 271.3 | | | | | | | | |
| | 12 | SMDH 220-12D | ● | 264.0 | 343.2 | | | | | | | | |
| 22.8をこえ23.8以下 | 1.5 | SMDH 230-1.5D | ● | 40.0 | 118.0 | 56 | 30 | 25 | MFS | 1 | BXD03512IPC | 2.79~3.72 | TRDR15IP |
| | 3 | SMDH 230-3D | ● | 76.0 | 160.7 | | | | | | | | |
| | 5 | SMDH 230-5D | ● | 124.0 | 210.7 | | | | | | | | |
| | 8 | SMDH 230-8D | ● | 195.0 | 280.7 | | | | | | | | |
| | 12 | SMDH 230-12D | ● | 276.0 | 355.0 | | | | | | | | |
| 23.8をこえ24.8以下 | 1.5 | SMDH 240-1.5D | ● | 42.0 | 124.3 | 60 | 37 | 32 | MFS | 1 | BXD03512IPC | 2.79~3.72 | TRDR15IP |
| | 3 | SMDH 240-3D | ● | 79.0 | 170.5 | | | | | | | | |
| | 5 | SMDH 240-5D | ● | 129.0 | 220.5 | | | | | | | | |
| | 8 | SMDH 240-8D | ● | 203.0 | 295.5 | | | | | | | | |
| | 12 | SMDH 240-12D | ● | 288.0 | 372.0 | | | | | | | | |
| 24.8をこえ25.8以下 | 1.5 | SMDH 250-1.5D | ● | 43.0 | 124.7 | 60 | 37 | 32 | MFS | 1 | BXD04014IPC | 4.14~5.52 | TRDR20IP |
| | 3 | SMDH 250-3D | ● | 82.0 | 170.4 | | | | | | | | |
| | 5 | SMDH 250-5D | ● | 134.0 | 225.4 | | | | | | | | |
| | 8 | SMDH 250-8D | ● | 211.0 | 300.4 | | | | | | | | |
| | 12 | SMDH 250-12D | ● | 300.0 | 384.2 | | | | | | | | |
| 25.8をこえ26.8以下 | 1.5 | SMDH 260-1.5D | ● | 45.0 | 127.3 | 60 | 37 | 32 | MFS | 1 | BXD04014IPC | 4.14~5.52 | TRDR20IP |
| | 3 | SMDH 260-3D | ● | 85.0 | 175.5 | | | | | | | | |
| | 5 | SMDH 260-5D | ● | 139.0 | 230.5 | | | | | | | | |
| | 8 | SMDH 260-8D | ● | 219.0 | 310.5 | | | | | | | | |
| | 12 | SMDH 260-12D | ● | 312.0 | 396.6 | | | | | | | | |
| 26.8をこえ27.8以下 | 1.5 | SMDH 270-1.5D | ● | 46.0 | 127.8 | 60 | 37 | 32 | MFS | 1 | BXD04014IPC | 4.14~5.52 | TRDR20IP |
| | 3 | SMDH 270-3D | ● | 88.0 | 175.5 | | | | | | | | |
| | 5 | SMDH 270-5D | ● | 144.0 | 235.5 | | | | | | | | |
| | 8 | SMDH 270-8D | ● | 227.0 | 320.5 | | | | | | | | |
| | 12 | SMDH 270-12D | ● | 324.0 | 408.9 | | | | | | | | |
| 27.8をこえ28.8以下 | 1.5 | SMDH 280-1.5D | ● | 48.0 | 129.4 | 60 | 37 | 32 | MFS | 1 | BXD04515IPC | 4.98~6.64 | TRDR25IP |
| | 3 | SMDH 280-3D | ● | 91.0 | 180.6 | | | | | | | | |
| | 5 | SMDH 280-5D | ● | 149.0 | 240.6 | | | | | | | | |
| | 8 | SMDH 280-8D | ● | 235.0 | 325.6 | | | | | | | | |
| | 12 | SMDH 280-12D | ● | 336.0 | 421.3 | | | | | | | | |
| 28.8をこえ29.8以下 | 1.5 | SMDH 290-1.5D | ● | 49.0 | 130.8 | 60 | 37 | 32 | MFS | 1 | BXD04515IPC | 4.98~6.64 | TRDR25IP |
| | 3 | SMDH 290-3D | ● | 94.0 | 185.4 | | | | | | | | |
| | 5 | SMDH 290-5D | ● | 154.0 | 245.4 | | | | | | | | |
| | 8 | SMDH 290-8D | ● | 243.0 | 335.4 | | | | | | | | |
| | 12 | SMDH 290-12D | ● | 348.0 | 433.5 | | | | | | | | |
| 29.8をこえ30.8以下 | 1.5 | SMDH 300-1.5D | ● | 51.0 | 133.4 | 60 | 37 | 32 | MFS | 1 | BXD04515IPC | 4.98~6.64 | TRDR25IP |
| | 3 | SMDH 300-3D | ● | 97.0 | 185.6 | | | | | | | | |
| | 5 | SMDH 300-5D | ● | 159.0 | 255.6 | | | | | | | | |
| | 8 | SMDH 300-8D | ● | 251.0 | 345.6 | | | | | | | | |
| | 12 | SMDH 300-12D | ● | 360.0 | 445.9 | | | | | | | | |

推奨切削条件 P16 MFS型ヘッド P17

推奨締め付けトルク(N・m)

MB型 橋梁用溶接構造用圧延鋼の加工(単体加工・重ね板加工共)に最適



■ 切りくず処理性能

橋梁用MB型

切りくず処理良好



被削材:SM490YB
切削条件:vc=87m/min f=0.29mm/rev

他社品

切りくず伸び発生



被削材:SM490YB
切削条件:vc=87m/min f=0.29mm/rev

■ MB型 切削長比較

| 事例 | 現状工具 | 寿命比較(切削長) | | 切削条件 |
|----|-----------------|--------------------|--------------|--|
| 1 | 他社品 A ヘッド交換式 | MB型 42m | 他社品 A 17m | vc=46m/min f=0.35mm/rev 切削油: MQL |
| 2 | 他社品 B ヘッド交換式 | MB型 87m | 他社品 B 50m | vc=56m/min f=0.30mm/rev 切削油: MQL |
| 3 | 他社品 C ろう付け | MB型 95m | 他社品 C 32m | vc=54m/min f=0.30mm/rev 切削油: MQL |
| 4 | 他社品 D ヘッド交換式 | MB型 120m | 他社品 D 70m | vc=60m/min f=0.30mm/rev 切削油: MQL |

現状工具寿命に比べ

1.7倍~3倍の
長寿命化実績



工具費

大幅節約可能

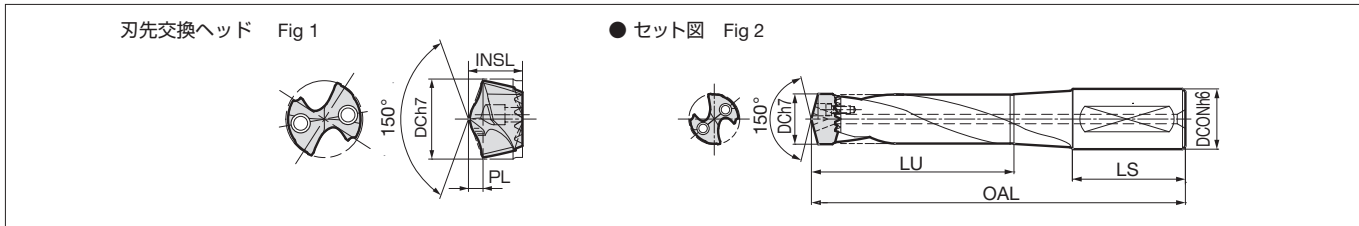
■ 推奨切削条件(MB型)

(n: 回転速度 min⁻¹ vc: 切削速度 m/min f: 送り量 mm/rev)

| 被削材 | | 溶接構造用圧延鋼 SS400 | 溶接構造用圧延鋼 SM490 | 溶接構造用圧延鋼 SM520 | 溶接構造用圧延鋼 SM570 |
|--------------|----------|-------------------|-------------------|-------------------|-------------------|
| 刃径 DC(mm) | 切削 条件 | 下限- 推奨 -上限 | 下限- 推奨 -上限 | 下限- 推奨 -上限 | 下限- 推奨 -上限 |
| φ24.7 | n | 900 | 840 | 700 | 700 |
| | vc | 60-70-80 | 55-65-75 | 45-55-65 | 45-55-65 |
| | f | 0.20-0.30-0.40 | 0.20-0.30-0.40 | 0.20-0.25-0.30 | 0.20-0.25-0.30 |
| φ26.7 | n | 830 | 770 | 650 | 650 |
| | vc | 60-70-80 | 55-65-75 | 45-55-65 | 45-55-65 |
| | f | 0.20-0.30-0.40 | 0.20-0.30-0.40 | 0.20-0.25-0.30 | 0.20-0.25-0.30 |



B3型ホルダには専用のMB型ヘッドのみ使用願います *h6-h7公差は総合カタログN章一般資料編をご覧ください。



■ 刃先交換ヘッド MB型 刃径φ24.5 / 24.7mm 寸法(mm)

| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig |
|-------|----|--------------|-----------|-------|------------|-----|
| 24.5 | ● | SMDT 2450 MB | 14.1 | 3.3 | SMDH 240B3 | 1 |
| 24.7 | ● | SMDT 2470 MB | | | | 1 |

材種 ACX80

■ 刃先交換ヘッド MB型 刃径φ26.5 / 26.7mm 寸法(mm)

| 刃径 DC | 在庫 | 型番 | ヘッド長 INSL | 先端 PL | 適用ホルダ | Fig |
|-------|----|--------------|-----------|-------|------------|-----|
| 26.5 | ● | SMDT 2650 MB | 15.3 | 3.6 | SMDH 260B3 | 1 |
| 26.7 | ● | SMDT 2670 MB | | | | 1 |

材種 ACX80

■ 本体 φ23.8~26.8mm MB型セット時寸法

寸法(mm)

| 刃径 DC | 穴深さ (L/D) | 型番 | 在庫 | 有効長 LU | 全長 OAL | シャンク LS | シャンク径 DCON | 刃先交換ヘッド | Fig | 部品 | | |
|---------------|-----------|------------|----|--------|--------|---------|------------|---------|-----|------------|-----------|----------|
| | | | | | | | | | | キャップスクリュー | レンチ | |
| 23.8をこえ24.8以下 | 3 | SMDH 240B3 | ● | 90.3 | 173.3 | 60 | 32 | MB | 2 | BXD03512IP | 2.79~3.72 | TRDR15IP |
| 25.8をこえ26.8以下 | 3 | SMDH 260B3 | ● | 95.6 | 178.6 | 60 | 32 | MB | 2 | BXD04014IP | 4.14~5.52 | TRDR20IP |

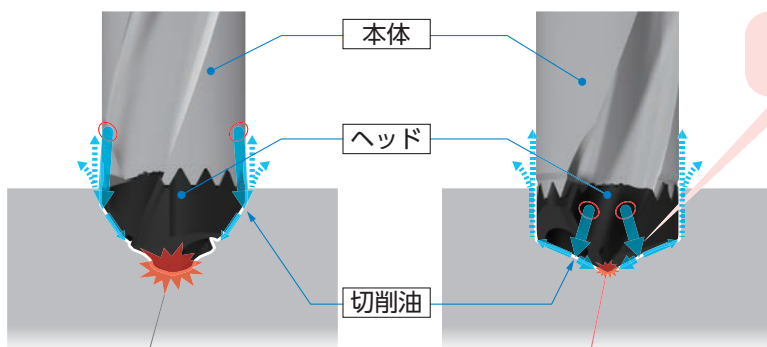
在庫表以外の本体製作は別途ご相談ください。

◎ 推奨締付けトルク (N・m)

■ 切削油による潤滑性の向上

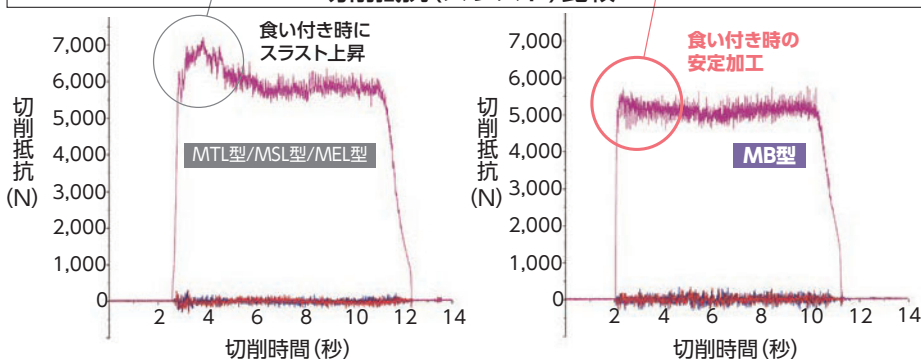
MTL型/MSL型/MEL型

MB型



ドリル先端部分への切削油供給が改善されました。

切削抵抗 (スラスト) 比較

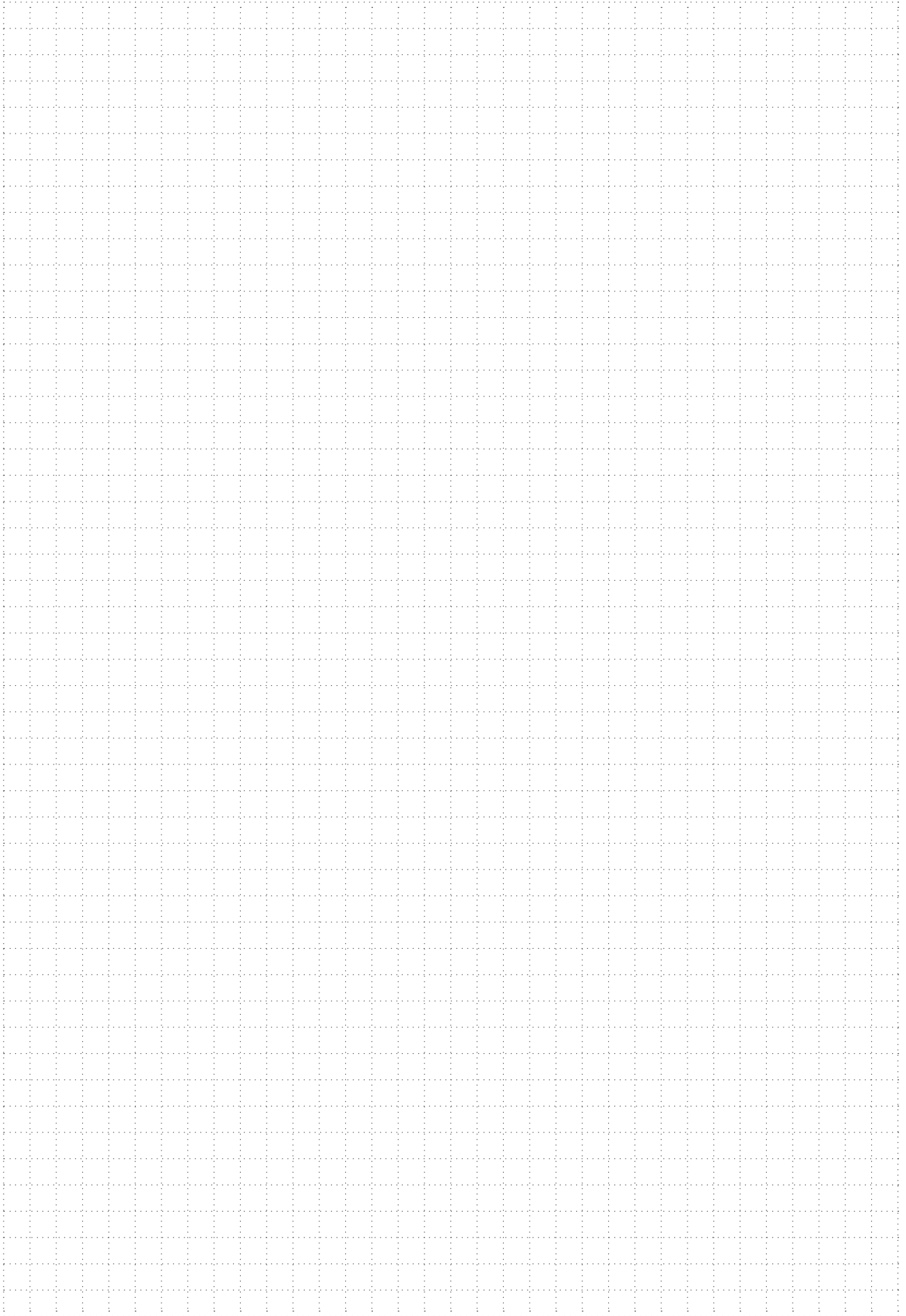


被削材:SS400 刃径:φ24.7mm 切削条件:vc=70m/min f=0.35mm/rev 切削油:MQL

※オイルホール位置や溝形状が異なるため、「MTL型/MSL型/MEL型ヘッド」+「B3型 本体 (橋梁用)」、
「MB型ヘッド (橋梁用)」+「-1.5D (F) ~ -1.2D型/M型/L型/D型 本体」の組み合わせでは使用できません。
(S型は-1.5DF型に名称が変更となりました。)



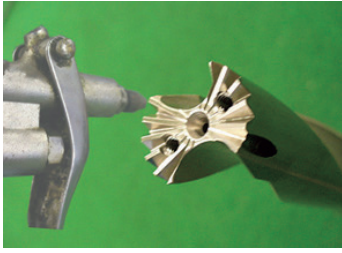
MEMO



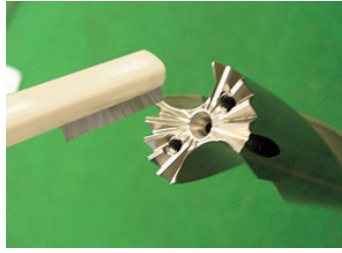
MEMO

A large grid of dotted lines for writing a memo. The grid consists of 20 columns and 30 rows of small squares, each formed by two dotted lines. The grid is intended for handwritten notes.

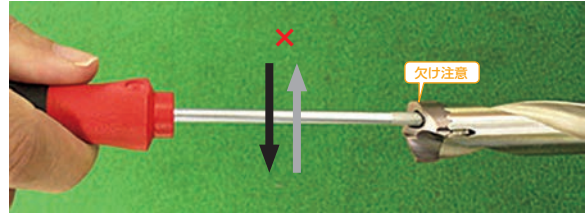
■ ヘッド交換要領



①使用済みヘッドを外し、本体のセレーション締結部をエアブローして、異物を除去してください。



②エアブローで除去できない異物には、ワイヤーブラシ等をご使用ください。



③締付け時にレンチが波打つとヘッド穴周りに欠けが発生するためご注意ください。

④ねじは著しく損耗、変形する前に交換してください。

⑤締付け力は、推奨締付けトルクを目安にしてください。

⚠ご使用上の注意

・ドリルを長期間で使用になれない場合には、ヘッドとホルダを別々に保管されることを推奨いたします。

※オイルホール位置や溝形状が異なるため、「MTL型/MSL型/MEL型ヘッド」+「B3型 本体(橋梁用)」、「MB型ヘッド(橋梁用)」+「-1.5D(F)~-12D型/M型/L型/D型 本体」の組み合わせでは使用できません。(S型は-1.5DF型に名称が変更となりました。)

◆安全にお使いいただくために◆



●高温の切りくずが飛散したり長く伸びた切りくずが排出されることがありますので、安全カバーや保護メガネ等の保護具を使用し、防災・防火に十分ご注意ください。

●Very hot or lengthy chips may be discharged while the machine is in operation. Therefore, machine guards, safety goggles or other protective covers must be used. Fire safety precautions must also be considered.

●鋭い切れ刃を持っているため取扱いにご注意ください。
●使用方法を誤ったり、使用条件が不適切な場合、工具破損、飛散を招きますので推奨条件の範囲内でご使用ください。

●Please handle with care as this product has sharp edges.
●Improper cutting conditions or mis-handling of the tool may result in breakages or projectiles. Therefore, please use the tool within its recommended conditions.

●不水溶性の切削液をご使用になる場合は、自動消火装置を設置するなどの対策を講じて頂き、火災にくれぐれもご注意ください。

●When using non-water soluble cutting oil, precautions against fire must be taken and please ensure that a fire extinguisher is placed near the machine.

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