



■ Made
■ in
■ Germany



BasicDrill ベーシックドリル

EMUGE ★

オールラウンド超硬ドリル

マイクロサイズを
追加導入!

主な対象アプリケーション

エムーゲ ベーシックドリルは穴径φ3,0 からφ18,0 に対応する新開発のオールラウンド超硬油穴付きドリルです。

ベーシックドリルは様々な被削材に適用できる汎用性の高さを最大の特長としており、軟鋼、炭素鋼、低/高合金鋼などの鋼をメインに、ステンレス、鋳鉄、非鉄合金とさらに耐熱合金や高硬度鋼にも適用可能です。

切刃形状と刃先処理

独自に開発された主切刃の設計に加え、最適化された刃先処理により、様々な被削材で最高の切削パフォーマンスと長寿命を実現

超硬母材とコーティング

最新の超硬母材と高性能コーティングの組み合わせで従来より高速・高送り加工が可能に

マージン設計

第3、第4 マージンが加工開始から即座にガイドとして機能する設計により加工中の高いガイド性を確保しながら、ステンレスなどの被削材でも過度な擦れを抑制

ドリルポイント

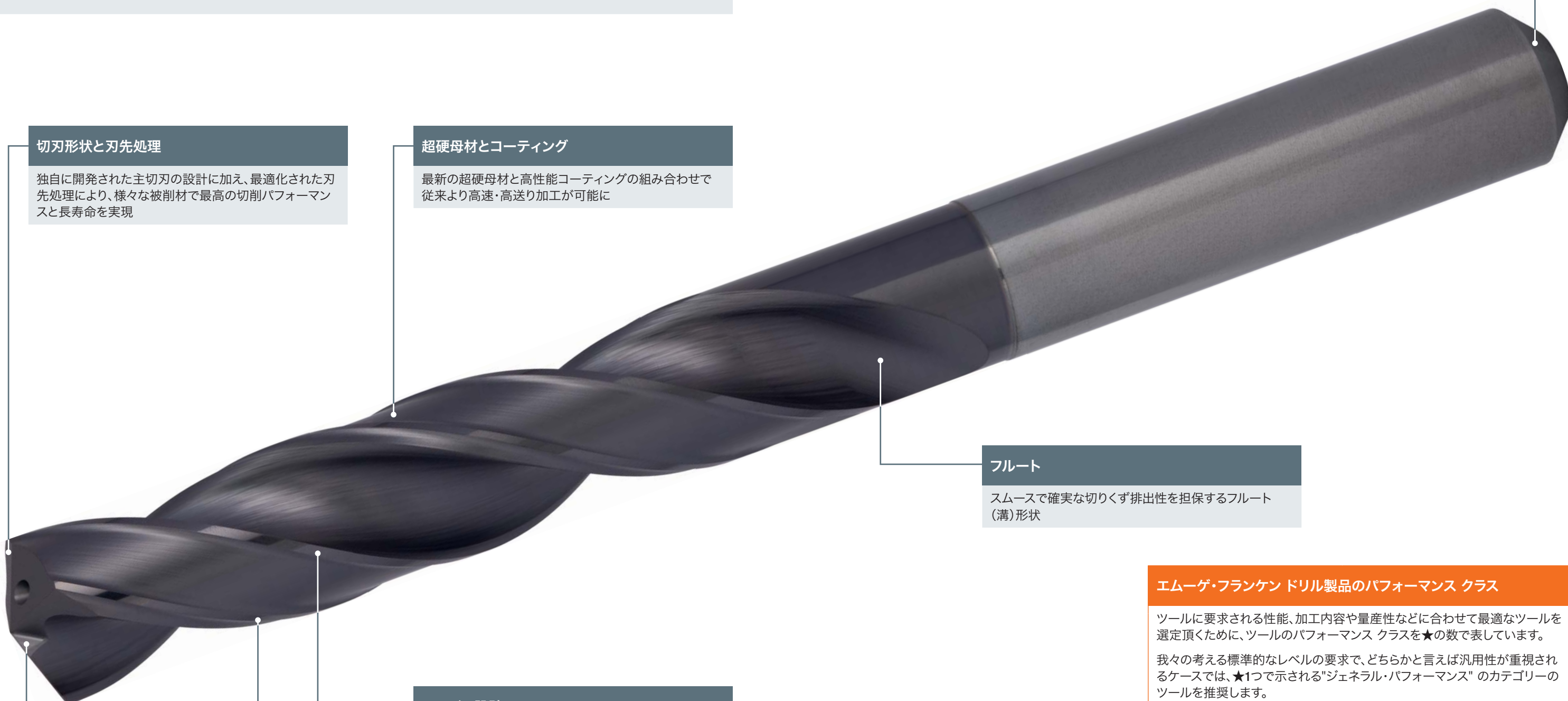
最適化されたドリルポイントとギャッシュの設計が十分な切削油供給スペースを確保し、確実に切りくずを排出

シャンクエンド

水溶性切削油に加えて、ミスト (MQL) での加工にも対応できるシャンクエンドデザイン

フルート

スムーズで確実な切りくず排出性を担保するフルート(溝)形状



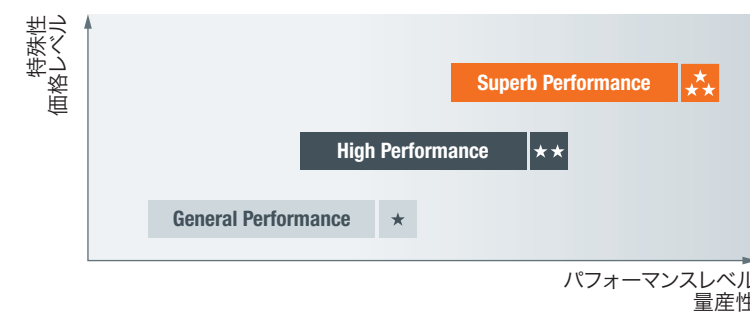
エムーゲ・フランケン ドリル製品のパフォーマンス クラス

ツールに要求される性能、加工内容や量産性などに合わせて最適なツールを選定頂くために、ツールのパフォーマンス クラスを★の数で表しています。

我々の考える標準的なレベルの要求で、どちらかと言えば汎用性が重視されるケースでは、★1つで示される"ジェネラル・パフォーマンス" のカテゴリーのツールを推奨します。

より専門性が高く、特別な要求がある被削材やアプリケーション用のツールは、"ハイ・パフォーマンス"にカテゴライズしています。

さらに、実現可能な最高のパフォーマンスを要求されるレベルでは、スペシャリストとして"スパーブ・パフォーマンス" のカテゴリーを設けています。



BasicDrill Micro BD108-6xD **new**

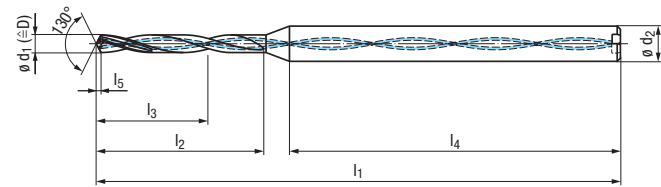
★ 6xD



超硬ベーシックドリル マイクロ 6xD

製品の仕様と特長:

- 4マージン仕様で高いガイド性能と安定した加工品質
- 油穴付きに加え、独自の高性能コーティングで高いプロセス安全性
- 鋼を中心に様々な被削材に適用できる高い汎用性



| 被削材 - Material | |
|----------------|------------------|
| P | 1.1-5.1 |
| M | 1.1-4.1 |
| K | 1.1-3.2 |
| N | 1.1-2.3 |
| S | 1.2-1.3, 2.2-2.3 |
| H | 1.1-1.2 |

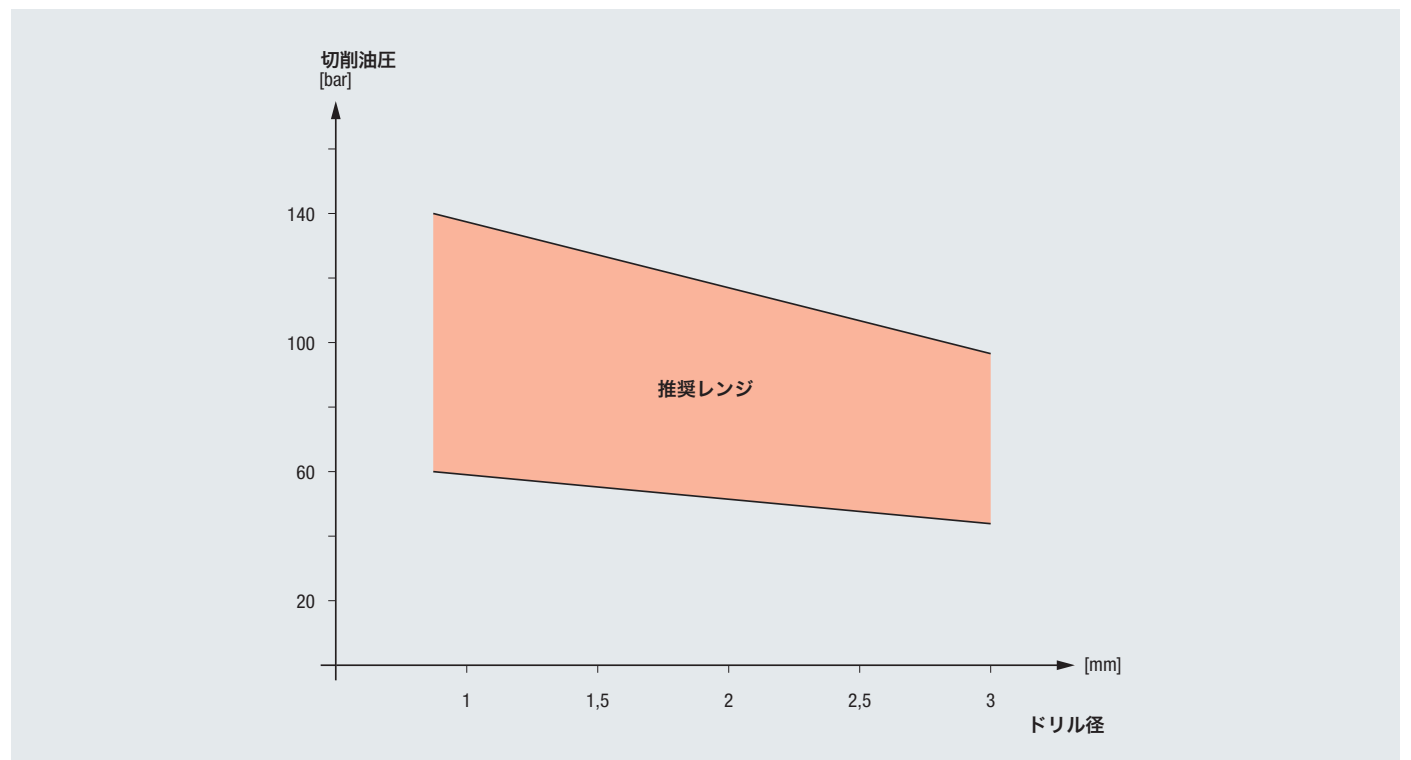
製品情報はQRコードからwebでもご確認ください



| φ d ₁ k5 | 切削タップ 下穴 | 転造タップ 下穴 | l ₁ | l ₂ | l ₃ | l ₄ + 3 mm | l ₅ | φ d ₂ h6 | HA |
|------------------------|--------------------------|---------------|----------------|----------------|----------------|--------------------------|----------------|------------------------|---------------|
| 1.00 | M1.2x0.2 | M1.1 | 50 | 9 | 6 | 36 | 0.20 | 3 | TE211344.0100 |
| 1.05 | | | 50 | 9.5 | 6.3 | 36 | 0.20 | 3 | TE211344.0105 |
| 1.10 | M1.4 | M1.2 | 50 | 9.9 | 6.6 | 36 | 0.20 | 3 | TE211344.0110 |
| 1.15 | | | 50 | 10.4 | 6.9 | 36 | 0.20 | 3 | TE211344.0115 |
| 1.20 | M1.4x0.2 | | 50 | 10.8 | 7.2 | 36 | 0.20 | 3 | TE211344.0120 |
| 1.25 | M1.6 / #0-80 | | 50 | 11.3 | 7.5 | 36 | 0.20 | 3 | TE211344.0125 |
| 1.30 | MJ1.6x0.35 | | 52 | 11.7 | 7.8 | 36 | 0.25 | 3 | TE211344.0130 |
| 1.35 | M1.7 | | 52 | 12.2 | 8.1 | 36 | 0.25 | 3 | TE211344.0135 |
| 1.40 | M1.6x0.2 | #0-80 | 52 | 12.6 | 8.4 | 36 | 0.25 | 3 | TE211344.0140 |
| 1.45 | M1.8 | | 52 | 13.1 | 8.7 | 36 | 0.25 | 3 | TE211344.0145 |
| 1.47 | | M1.6 | 52 | 13.5 | 8.8 | 36 | 0.25 | 3 | TE211344.0147 |
| 1.50 | | | 52 | 13.5 | 9 | 36 | 0.25 | 3 | TE211344.0150 |
| 1.55 | #1-64 | | 55 | 14 | 9.3 | 36 | 0.30 | 3 | TE211344.0155 |
| 1.60 | M2 / M1.8x0.2 | | 55 | 14.4 | 9.6 | 36 | 0.30 | 3 | TE211344.0160 |
| 1.65 | | | 55 | 14.9 | 9.9 | 36 | 0.30 | 3 | TE211344.0165 |
| 1.70 | | #1-64 / #1-72 | 55 | 15.3 | 10.2 | 36 | 0.30 | 3 | TE211344.0170 |
| 1.75 | M2.2 / M2x0.25 | | 55 | 15.8 | 10.5 | 36 | 0.30 | 3 | TE211344.0175 |
| 1.80 | | | 57 | 16.2 | 10.8 | 36 | 0.30 | 3 | TE211344.0180 |
| 1.85 | #2-56 / #2-64 | M2 | 57 | 16.7 | 11.1 | 36 | 0.35 | 3 | TE211344.0185 |
| 1.90 | M2.3 | | 57 | 17.1 | 11.4 | 36 | 0.35 | 3 | TE211344.0190 |
| 1.95 | M2.2x0.25 / M2.3x0.35 | | 57 | 17.6 | 11.7 | 36 | 0.35 | 3 | TE211344.0195 |
| 2.00 | | #2-56 | 57 | 18 | 12 | 36 | 0.35 | 4 | TE211344.0200 |
| 2.03 | | M2.2 | 57 | 18.5 | 12.2 | 36 | 0.35 | 4 | TE211344.0203 |
| 2.05 | M2.5 / M2.3x0.25 | | 60 | 18.5 | 12.3 | 36 | 0.35 | 4 | TE211344.0205 |
| 2.10 | MJ2.5x0.45 / #3-48 | | 60 | 18.9 | 12.6 | 36 | 0.40 | 4 | TE211344.0210 |
| 2.15 | M2.6 / M2.5x0.35 / #3-56 | M2.3 | 60 | 19.4 | 12.9 | 36 | 0.40 | 4 | TE211344.0215 |
| 2.20 | | | 60 | 19.8 | 13.2 | 36 | 0.40 | 4 | TE211344.0220 |
| 2.25 | M2.6x0.35 | | 60 | 20.3 | 13.5 | 36 | 0.40 | 4 | TE211344.0225 |
| 2.30 | | #3-48 | 62 | 20.7 | 13.8 | 36 | 0.40 | 4 | TE211344.0230 |
| 2.33 | | M2.5 | 62 | 21.2 | 14 | 36 | 0.40 | 4 | TE211344.0233 |
| 2.35 | #4-40 | | 62 | 21.2 | 14.1 | 36 | 0.40 | 4 | TE211344.0235 |
| 2.40 | #4-48 | | 62 | 21.6 | 14.4 | 36 | 0.45 | 4 | TE211344.0240 |

| φ d ₁ k5 | 切削タップ 下穴 | 転造タップ 下穴 | l ₁ | l ₂ | l ₃ | l ₄ + 3 mm | l ₅ | φ d ₂ h6 | HA |
|------------------------|-----------------|-------------|----------------|----------------|----------------|--------------------------|----------------|------------------------|---------------|
| 2.45 | | | 62 | 22.1 | 14.7 | 36 | 0.45 | 4 | TE211344.0245 |
| 2.50 | M3 | | 62 | 22.5 | 15 | 36 | 0.45 | 4 | TE211344.0250 |
| 2.55 | | #4-40 | 65 | 23 | 15.3 | 36 | 0.45 | 4 | TE211344.0255 |
| 2.60 | MJ3x0.5 | | 65 | 23.4 | 15.6 | 36 | 0.45 | 4 | TE211344.0260 |
| 2.65 | M3x0.35 / #5-40 | | 65 | 23.9 | 15.9 | 36 | 0.45 | 4 | TE211344.0265 |
| 2.70 | #5-44 | | 65 | 24.3 | 16.2 | 36 | 0.50 | 4 | TE211344.0270 |
| 2.75 | M3x0.25 | | 65 | 24.8 | 16.5 | 36 | 0.50 | 4 | TE211344.0275 |
| 2.80 | | M3 | 67 | 25.2 | 16.8 | 36 | 0.50 | 4 | TE211344.0280 |
| 2.85 | #6-32 | | 67 | 25.7 | 17.1 | 36 | 0.50 | 4 | TE211344.0285 |
| 2.90 | M3.5 | #5-40 | 67 | 26.1 | 17.4 | 36 | 0.50 | 4 | TE211344.0290 |
| 2.95 | | | 67 | 26.6 | 17.7 | 36 | 0.55 | 4 | TE211344.0295 |

ベーシックドリル マイクロの推奨切削油圧



BasicDrill BD101-3xD

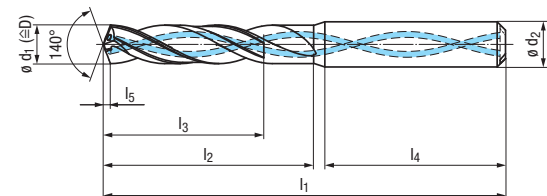
★ 3xD



超硬ベーシックドリル 3xD

製品の仕様と特長:

- 4マージン仕様で高いガイド性能と安定した加工品質
- 油穴付きに加え、独自の高性能コーティングで高いプロセス安全性
- 鋼を中心に様々な被削材に適用できる高い汎用性



アプリケーション - 被削材

| | |
|---|------------------|
| P | 1.1-5.1 |
| M | 1.1-3.1 |
| K | 1.1-4.2 |
| N | 1.1-2.3 |
| S | 1.2-1.3, 2.2-2.3 |
| H | 1.1-1.3 |



製品情報はQRコードからwebでもご確認頂けます

ショートデザイン

| ∅ d ₁ m7 | 切削タップ 下穴 | 転造タップ 下穴 | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | ∅ d ₂ h6 | ベーシックドリル BD101-3xD HA |
|------------------------|-------------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|------------------------|-----------------------------|
| 3.00 | M3.5x0.5 / MJ3.5x0.6 | | 62 | 20 | 14 | 36 | 0.5 | 6 | TA201344.0300 |
| 3.10 | | | 62 | 20 | 14 | 36 | 0.5 | 6 | TA201344.0310 |
| 3.15 | M3.5x0.35 | #6-32 | 62 | 20 | 14 | 36 | 0.5 | 6 | TA201344.0315 |
| 3.18 | | | 62 | 20 | 14 | 36 | 0.5 | 6 | TA201344.0318 |
| 3.20 | MJ3.5x0.35 | | 62 | 20 | 14 | 36 | 0.5 | 6 | TA201344.0320 |
| 3.22 | | #6-40 | 62 | 20 | 14 | 36 | 0.5 | 6 | TA201344.0322 |
| 3.25 | | M3.5 | 62 | 20 | 14 | 36 | 0.6 | 6 | TA201344.0325 |
| 3.30 | M4 | M3.5x0.5 | 62 | 20 | 14 | 36 | 0.6 | 6 | TA201344.0330 |
| 3.35 | | | 62 | 20 | 14 | 36 | 0.6 | 6 | TA201344.0335 |
| 3.38 | | M3.5x0.35 | 62 | 20 | 14 | 36 | 0.6 | 6 | TA201344.0338 |
| 3.40 | MJ4x0.7 | | 62 | 20 | 14 | 36 | 0.6 | 6 | TA201344.0340 |
| 3.50 | M4x0.5 / #8-32 / #8-36 | | 62 | 20 | 14 | 36 | 0.6 | 6 | TA201344.0350 |
| 3.57 | | | 62 | 20 | 14 | 36 | 0.6 | 6 | TA201344.0357 |
| 3.60 | MJ4x0.5 | | 62 | 20 | 14 | 36 | 0.6 | 6 | TA201344.0360 |
| 3.65 | M4x0.35 | | 62 | 20 | 14 | 36 | 0.6 | 6 | TA201344.0365 |
| 3.70 | M4.5 | M4 | 62 | 20 | 14 | 36 | 0.6 | 6 | TA201344.0370 |
| 3.80 | | M4x0.5 / #8-32 | 66 | 24 | 17 | 36 | 0.6 | 6 | TA201344.0380 |
| 3.85 | | #8-36 | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0385 |
| 3.88 | | M4x0.35 | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0388 |
| 3.90 | MJ4.5x0.75 / #10-24 | | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0390 |
| 3.97 | | | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0397 |
| 4.00 | | | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0400 |
| 4.04 | | | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0404 |
| 4.10 | MJ4.5x0.5 / #10-32 | | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0410 |
| 4.15 | M5x0.9 | | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0415 |
| 4.20 | M5 / M5x0.75 | M4,5 | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0420 |
| 4.30 | MJ5x0.8 | M4.5x0.5 / #10-24 (GAL) | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0430 |
| 4.35 | | #10-24 | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0435 |
| 4.37 | | | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0437 |
| 4.40 | | | 66 | 24 | 17 | 36 | 0.7 | 6 | TA201344.0440 |
| 4.45 | | #10-32 | 66 | 24 | 17 | 36 | 0.8 | 6 | TA201344.0445 |
| 4.50 | M5x0.5 / #12-24 | | 66 | 24 | 17 | 36 | 0.8 | 6 | TA201344.0450 |
| 4.60 | M5.5 / MJ5x0.5 / #12-28 | | 66 | 24 | 17 | 36 | 0.8 | 6 | TA201344.0460 |
| 4.65 | | M5 | 66 | 24 | 17 | 36 | 0.8 | 6 | TA201344.0465 |
| 4.70 | | M5x0.75 | 66 | 24 | 17 | 36 | 0.8 | 6 | TA201344.0470 |
| 4.76 | | | 66 | 28 | 20 | 36 | 0.8 | 6 | TA201344.0476 |

| ∅ d ₁ m7 | 切削タップ 下穴 | 転造タップ 下穴 | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | ∅ d ₂ h6 | ベーシックドリル BD101-3xD HA |
|------------------------|-----------------------|--------------------------|----------------|----------------|----------------|----------------|----------------|------------------------|-----------------------------|
| 4.80 | | M5x0.5 | 66 | 28 | 20 | 36 | 0.8 | 6 | TA201344.0480 |
| 4.90 | | | 66 | 28 | 20 | 36 | 0.8 | 6 | TA201344.0490 |
| 5.00 | M6 | #12-24 | 66 | 28 | 20 | 36 | 0.8 | 6 | TA201344.0500 |
| new 5.05 | | | 66 | 28 | 20 | 36 | 0.9 | 6 | TA201344.0505 |
| 5.10 | MJ6x1 / 1/4-20 | M5.5 / #12-28 | 66 | 28 | 20 | 36 | 0.9 | 6 | TA201344.0510 |
| 5.11 | | | 66 | 28 | 20 | 36 | 0.9 | 6 | TA201344.0511 |
| 5.16 | | | 66 | 28 | 20 | 36 | 0.9 | 6 | TA201344.0516 |
| 5.20 | M6x0.75 | | 66 | 28 | 20 | 36 | 0.9 | 6 | TA201344.0520 |
| 5.30 | | M5.5x0.5 | 66 | 28 | 20 | 36 | 0.9 | 6 | TA201344.0530 |
| 5.40 | | | 66 | 28 | 20 | 36 | 0.9 | 6 | TA201344.0540 |
| 5.41 | | | 66 | 28 | 20 | 36 | 0.9 | 6 | TA201344.0541 |
| 5.50 | M6x0.5 / 1/4-28 | | 66 | 28 | 20 | 36 | 0.9 | 6 | TA201344.0550 |
| 5.55 | | M6 (GAL) | 66 | 28 | 20 | 36 | 0.9 | 6 | TA201344.0555 |
| 5.56 | | | 66 | 28 | 20 | 36 | 0.9 | 6 | TA201344.0556 |
| 5.60 | MJ6x0.5 | M6 | 66 | 28 | 20 | 36 | 1.0 | 6 | TA201344.0560 |
| 5.70 | | M6x0.75 / 1/4-20 (GAL) | 66 | 28 | 20 | 36 | 1.0 | 6 | TA201344.0570 |
| 5.75 | | 1/4-20 | 66 | 28 | 20 | 36 | 1.0 | 6 | TA201344.0575 |
| 5.80 | | M6x0.5 | 66 | 28 | 20 | 36 | 1.0 | 6 | TA201344.0580 |
| 5.90 | | | 66 | 28 | 20 | 36 | 1.0 | 6 | TA201344.0590 |
| 5.95 | | 1/4-28 | 66 | 28 | 20 | 36 | 1.0 | 6 | TA201344.0595 |
| 6.00 | M7 | | 66 | 28 | 20 | 36 | 1.0 | 6 | TA201344.0600 |
| 6.10 | MJ7x1 | | 79 | 34 | 24 | 36 | 1.0 | 8 | TA201344.0610 |
| new 6.15 | | | 79 | 34 | 24 | 36 | 1.1 | 8 | TA201344.0615 |
| 6.20 | M7x0.75 | | 79 | 34 | 24 | 36 | 1.1 | 8 | TA201344.0620 |
| 6.30 | | | 79 | 34 | 24 | 36 | 1.1 | 8 | TA201344.0630 |
| 6.35 | MJ7x0.75 | | 79 | 34 | 24 | 36 | 1.1 | 8 | TA201344.0635 |
| 6.40 | | | 79 | 34 | 24 | 36 | 1.1 | 8 | TA201344.0640 |
| 6.50 | M7x0.5 | | 79 | 34 | 24 | 36 | 1.1 | 8 | TA201344.0650 |
| 6.53 | | | 79 | 34 | 24 | 36 | 1.1 | 8 | TA201344.0653 |
| 6.60 | 5/16-18 | M7 | 79 | 34 | 24 | 36 | 1.1 | 8 | TA201344.0660 |
| 6.70 | | M7x0.75 | 79 | 34 | 24 | 36 | 1.1 | 8 | TA201344.0670 |
| 6.75 | | | 79 | 34 | 24 | 36 | 1.1 | 8 | TA201344.0675 |
| 6.80 | M8 / G1/16 | M7x0.5 | 79 | 34 | 24 | 36 | 1.2 | 8 | TA201344.0680 |
| 6.90 | MJ8x1.25 / 5/16-24 | | 79 | 34 | 24 | 36 | 1.2 | 8 | TA201344.0690 |
| 7.00 | M8x1 | | 79 | 34 | 24 | 36 | 1.2 | 8 | TA201344.0700 |
| 7.10 | MJ8x1 | | 79 | 41 | 29 | 36 | 1.2 | 8 | TA201344.0710 |
| 7.15 | | | 79 | 41 | 29 | 36 | 1.2 | 8 | TA201344.0715 |
| 7.20 | M8x0.75 | | 79 | 41 | 29 | 36 | 1.2 | 8 | TA201344.0720 |
| 7.25 | | 5/16-18 (GAL) / G1/16 | 79 | 41 | 29 | 36 | 1.2 | 8 | TA201344.0725 |
| 7.30 | | 5/16-18 | 79 | 41 | 29 | 36 | 1.2 | 8 | TA201344.0730 |
| 7.40 | | M8 (GAL) / 5/16-24 (GAL) | 79 | 41 | 29 | 36 | 1.3 | 8 | TA201344.0740 |
| 7.45 | | M8 / 5/16-24 | 79 | 41 | 29 | 36 | 1.3 | 8 | TA201344.0745 |
| 7.50 | M8x0.5 | | 79 | 41 | 29 | 36 | 1.3 | 8 | TA201344.0750 |
| 7.54 | | | 79 | 41 | 29 | 36 | 1.3 | 8 | TA201344.0754 |
| 7.60 | | M8x1 | 79 | 41 | 29 | 36 | 1.3 | 8 | TA201344.0760 |
| 7.70 | | M8x0.75 | 79 | 41 | 29 | 36 | 1.3 | 8 | TA201344.0770 |
| 7.80 | M9 | M8x0.5 | 79 | 41 | 29 | 36 | 1.3 | 8 | TA201344.0780 |
| 7.90 | MJ9x1.25 | | 79 | 41 | 29 | 36 | 1.3 | 8 | TA201344.0790 |
| 7.94 | | | 79 | 41 | 29 | 36 | 1.3 | 8 | TA201344.0794 |
| 8.00 | M9x1 / 3/8-16 | | 79 | 41 | 29 | 36 | 1.4 | 8 | TA201344.0800 |
| 8.10 | MJ9x1 | | 89 | 47 | 35 | 40 | 1.4 | 10 | TA201344.0810 |
| 8.20 | M9x0.75 | | 89 | 47 | 35 | 40 | 1.4 | 10 | TA201344.0820 |
| 8.30 | | | 89 | 47 | 35 | 40 | 1.4 | 10 | TA201344.0830 |
| 8.33 | | | 89 | 47 | 35 | 40 | 1.4 | 10 | TA201344.0833 |
| 8.40 | | M9 (GAL) | 89 | 47 | 35 | 40 | 1.4 | 10 | TA201344.0840 |
| 8.45 | | M9 | 89 | 47 | 35 | 40 | 1.4 | 10 | TA201344.0845 |
| 8.50 | M10 / M9x0.5 / 3/8-24 | | 89 | 47 | 35 | 40 | 1.4 | 10 | TA201344.0850 |
| 8.60 | MJ10x1.5 | M9x1 | 89 | 47 | 35 | 40 | 1.5 | 10 | TA201344.0860 |
| 8.70 | | M9x0.75 | 89 | 47 | 35 | 40 | 1.5 | 10 | TA201344.0870 |
| 8.73 | | | 89 | 47 | 35 | 40 | 1.5 | 10 | TA201344.0873 |

Table with 10 columns: drill diameter (ø d1), flute diameter (ø d2), cutting edge length (l1-l5), and HA material. It lists various drill bit specifications like M10x1.25, MJ10x0.75, and MJ11x1.25 with their corresponding part numbers.

Table with 10 columns: drill diameter (ø d1), flute diameter (ø d2), cutting edge length (l1-l5), and HA material. It lists various drill bit specifications like M14x1.25, MJ14x1.25, and M20x2 with their corresponding part numbers.

BasicDrill BD101-5xD

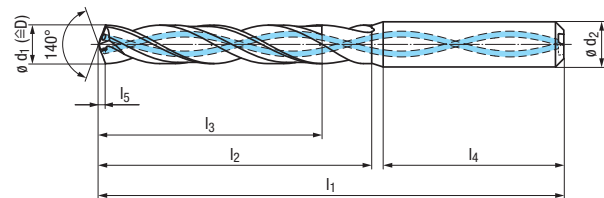
★ 5xD



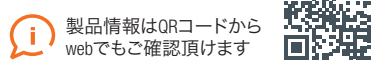
超硬ベーシックドリル 5xD

製品の仕様と特長:

- 4マージン仕様で高いガイド性能と安定した加工品質
- 油穴付きに加え、独自の高性能コーティングで高いプロセス安全性
- 鋼を中心に様々な被削材に適用できる高い汎用性



ロングデザイン



| ϕd_1 m7 | 切削タップ 下穴 | 転造タップ 下穴 | l_1 | l_2 | l_3 | l_4 | l_5 | ϕd_2 h6 | ベーシックドリル BD101-5xD HA |
|------------------|-------------------------|-------------------------|-------|-------|-------|-------|-------|------------------|-----------------------------|
| 3.00 | M3.5x0.5 / MJ3.5x0.6 | | 66 | 28 | 23 | 36 | 0.5 | 6 | TA211344.0300 |
| 3.10 | | | 66 | 28 | 23 | 36 | 0.5 | 6 | TA211344.0310 |
| 3.15 | M3.5x0.35 | #6-32 | 66 | 28 | 23 | 36 | 0.5 | 6 | TA211344.0315 |
| 3.18 | | | 66 | 28 | 23 | 36 | 0.5 | 6 | TA211344.0318 |
| 3.20 | MJ3.5x0.35 | | 66 | 28 | 23 | 36 | 0.5 | 6 | TA211344.0320 |
| 3.22 | | #6-40 | 66 | 28 | 23 | 36 | 0.5 | 6 | TA211344.0322 |
| 3.25 | | M3.5 | 66 | 28 | 23 | 36 | 0.6 | 6 | TA211344.0325 |
| 3.30 | M4 | M3.5x0.5 | 66 | 28 | 23 | 36 | 0.6 | 6 | TA211344.0330 |
| 3.35 | | | 66 | 28 | 23 | 36 | 0.6 | 6 | TA211344.0335 |
| 3.38 | | M3.5x0.35 | 66 | 28 | 23 | 36 | 0.6 | 6 | TA211344.0338 |
| 3.40 | MJ4x0.7 | | 66 | 28 | 23 | 36 | 0.6 | 6 | TA211344.0340 |
| 3.50 | M4x0.5 / #8-32 / #8-36 | | 66 | 28 | 23 | 36 | 0.6 | 6 | TA211344.0350 |
| 3.57 | | | 66 | 28 | 23 | 36 | 0.6 | 6 | TA211344.0357 |
| 3.60 | MJ4x0.5 | | 66 | 28 | 23 | 36 | 0.6 | 6 | TA211344.0360 |
| 3.65 | M4x0.35 | | 66 | 28 | 23 | 36 | 0.6 | 6 | TA211344.0365 |
| 3.70 | M4.5 | M4 | 74 | 36 | 29 | 36 | 0.6 | 6 | TA211344.0370 |
| 3.80 | | M4x0.5 / #8-32 | 74 | 36 | 29 | 36 | 0.6 | 6 | TA211344.0380 |
| 3.85 | | #8-36 | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0385 |
| 3.88 | | M4x0.35 | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0388 |
| 3.90 | MJ4.5x0.75 / #10-24 | | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0390 |
| 3.97 | | | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0397 |
| 4.00 | | | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0400 |
| 4.04 | | | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0404 |
| 4.10 | MJ4.5x0.5 / #10-32 | | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0410 |
| 4.15 | M5x0.9 | | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0415 |
| 4.20 | M5 / M5x0.75 | M4.5 | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0420 |
| 4.30 | MJ5x0.8 | M4.5x0.5 / #10-24 (GAL) | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0430 |
| 4.35 | | #10-24 | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0435 |
| 4.37 | | | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0437 |
| 4.40 | | | 74 | 36 | 29 | 36 | 0.7 | 6 | TA211344.0440 |
| 4.45 | | #10-32 | 74 | 36 | 29 | 36 | 0.8 | 6 | TA211344.0445 |
| 4.50 | M5x0.5 / #12-24 | | 74 | 36 | 29 | 36 | 0.8 | 6 | TA211344.0450 |
| 4.60 | M5.5 / MJ5x0.5 / #12-28 | | 74 | 36 | 29 | 36 | 0.8 | 6 | TA211344.0460 |
| 4.65 | | M5 | 74 | 36 | 29 | 36 | 0.8 | 6 | TA211344.0465 |
| 4.70 | | M5x0.75 | 74 | 36 | 29 | 36 | 0.8 | 6 | TA211344.0470 |
| 4.76 | | | 82 | 44 | 35 | 36 | 0.8 | 6 | TA211344.0476 |

| ϕd_1 m7 | 切削タップ 下穴 | 転造タップ 下穴 | l_1 | l_2 | l_3 | l_4 | l_5 | ϕd_2 h6 | ベーシックドリル BD101-5xD HA |
|------------------|-----------------------|--------------------------|-------|-------|-------|-------|-------|------------------|-----------------------------|
| 4.80 | | M5x0.5 | 82 | 44 | 35 | 36 | 0.8 | 6 | TA211344.0480 |
| 4.90 | | | 82 | 44 | 35 | 36 | 0.8 | 6 | TA211344.0490 |
| 5.00 | M6 | #12-24 | 82 | 44 | 35 | 36 | 0.8 | 6 | TA211344.0500 |
| new 5.05 | | | 82 | 44 | 35 | 36 | 0.9 | 6 | TA211344.0505 |
| 5.10 | MJ6x1 / 1/4-20 | MJ6x1 / 1/4-20 | 82 | 44 | 35 | 36 | 0.9 | 6 | TA211344.0510 |
| 5.11 | | | 82 | 44 | 35 | 36 | 0.9 | 6 | TA211344.0511 |
| 5.16 | | | 82 | 44 | 35 | 36 | 0.9 | 6 | TA211344.0516 |
| 5.20 | M6x0.75 | | 82 | 44 | 35 | 36 | 0.9 | 6 | TA211344.0520 |
| 5.30 | | M5.5x0.5 | 82 | 44 | 35 | 36 | 0.9 | 6 | TA211344.0530 |
| 5.40 | | | 82 | 44 | 35 | 36 | 0.9 | 6 | TA211344.0540 |
| 5.41 | | | 82 | 44 | 35 | 36 | 0.9 | 6 | TA211344.0541 |
| 5.50 | M6x0.5 / 1/4-28 | | 82 | 44 | 35 | 36 | 0.9 | 6 | TA211344.0550 |
| 5.55 | | M6 (GAL) | 82 | 44 | 35 | 36 | 0.9 | 6 | TA211344.0555 |
| 5.56 | | | 82 | 44 | 35 | 36 | 0.9 | 6 | TA211344.0556 |
| 5.60 | MJ6x0.5 | M6 | 82 | 44 | 35 | 36 | 1.0 | 6 | TA211344.0560 |
| 5.70 | | M6x0.75 / 1/4-20 (GAL) | 82 | 44 | 35 | 36 | 1.0 | 6 | TA211344.0570 |
| 5.75 | | 1/4-20 | 82 | 44 | 35 | 36 | 1.0 | 6 | TA211344.0575 |
| 5.80 | | M6x0.5 | 82 | 44 | 35 | 36 | 1.0 | 6 | TA211344.0580 |
| 5.90 | | | 82 | 44 | 35 | 36 | 1.0 | 6 | TA211344.0590 |
| 5.95 | | 1/4-28 | 82 | 44 | 35 | 36 | 1.0 | 6 | TA211344.0595 |
| 6.00 | M7 | | 82 | 44 | 35 | 36 | 1.0 | 6 | TA211344.0600 |
| 6.10 | MJ7x1 | | 91 | 53 | 43 | 36 | 1.0 | 8 | TA211344.0610 |
| new 6.15 | | | 91 | 53 | 43 | 36 | 1.1 | 8 | TA211344.0615 |
| 6.20 | M7x0.75 | | 91 | 53 | 43 | 36 | 1.1 | 8 | TA211344.0620 |
| 6.30 | | | 91 | 53 | 43 | 36 | 1.1 | 8 | TA211344.0630 |
| 6.35 | MJ7x0.75 | | 91 | 53 | 43 | 36 | 1.1 | 8 | TA211344.0635 |
| 6.40 | | | 91 | 53 | 43 | 36 | 1.1 | 8 | TA211344.0640 |
| 6.50 | M7x0.5 | | 91 | 53 | 43 | 36 | 1.1 | 8 | TA211344.0650 |
| 6.53 | | | 91 | 53 | 43 | 36 | 1.1 | 8 | TA211344.0653 |
| 6.60 | 5/16-18 | M7 | 91 | 53 | 43 | 36 | 1.1 | 8 | TA211344.0660 |
| 6.70 | | M7x0.75 | 91 | 53 | 43 | 36 | 1.1 | 8 | TA211344.0670 |
| 6.75 | | | 91 | 53 | 43 | 36 | 1.1 | 8 | TA211344.0675 |
| 6.80 | M8 / G1/16 | M7x0.5 | 91 | 53 | 43 | 36 | 1.2 | 8 | TA211344.0680 |
| 6.90 | MJ8x1.25 / 5/16-24 | | 91 | 53 | 43 | 36 | 1.2 | 8 | TA211344.0690 |
| 7.00 | M8x1 | | 91 | 53 | 43 | 36 | 1.2 | 8 | TA211344.0700 |
| 7.10 | MJ8x1 | | 91 | 53 | 43 | 36 | 1.2 | 8 | TA211344.0710 |
| 7.15 | | | 91 | 53 | 43 | 36 | 1.2 | 8 | TA211344.0715 |
| 7.20 | M8x0.75 | | 91 | 53 | 43 | 36 | 1.2 | 8 | TA211344.0720 |
| 7.25 | | 5/16-18 (GAL) / G1/16 | 91 | 53 | 43 | 36 | 1.2 | 8 | TA211344.0725 |
| 7.30 | | 5/16-18 | 91 | 53 | 43 | 36 | 1.2 | 8 | TA211344.0730 |
| 7.40 | | M8 (GAL) / 5/16-24 (GAL) | 91 | 53 | 43 | 36 | 1.3 | 8 | TA211344.0740 |
| 7.45 | | M8 / 5/16-24 | 91 | 53 | 43 | 36 | 1.3 | 8 | TA211344.0745 |
| 7.50 | M8x0.5 | | 91 | 53 | 43 | 36 | 1.3 | 8 | TA211344.0750 |
| 7.54 | | | 91 | 53 | 43 | 36 | 1.3 | 8 | TA211344.0754 |
| 7.60 | | M8x1 | 91 | 53 | 43 | 36 | 1.3 | 8 | TA211344.0760 |
| 7.70 | | M8x0.75 | 91 | 53 | 43 | 36 | 1.3 | 8 | TA211344.0770 |
| 7.80 | M9 | M8x0.5 | 91 | 53 | 43 | 36 | 1.3 | 8 | TA211344.0780 |
| 7.90 | MJ9x1.25 | | 91 | 53 | 43 | 36 | 1.3 | 8 | TA211344.0790 |
| 7.94 | | | 91 | 53 | 43 | 36 | 1.3 | 8 | TA211344.0794 |
| 8.00 | M9x1 / 3/8-16 | | 91 | 53 | 43 | 36 | 1.4 | 8 | TA211344.0800 |
| 8.10 | MJ9x1 | | 103 | 61 | 49 | 40 | 1.4 | 10 | TA211344.0810 |
| 8.20 | M9x0.75 | | 103 | 61 | 49 | 40 | 1.4 | 10 | TA211344.0820 |
| 8.30 | | | 103 | 61 | 49 | 40 | 1.4 | 10 | TA211344.0830 |
| 8.33 | | | 103 | 61 | 49 | 40 | 1.4 | 10 | TA211344.0833 |
| 8.40 | | M9 (GAL) | 103 | 61 | 49 | 40 | 1.4 | 10 | TA211344.0840 |
| 8.45 | | M9 | 103 | 61 | 49 | 40 | 1.4 | 10 | TA211344.0845 |
| 8.50 | M10 / M9x0.5 / 3/8-24 | | 103 | 61 | 49 | 40 | 1.4 | 10 | TA211344.0850 |
| 8.60 | MJ10x1.5 | M9x1 | 103 | 61 | 49 | 40 | 1.5 | 10 | TA211344.0860 |
| 8.70 | | M9x0.75 | 103 | 61 | 49 | 40 | 1.5 | 10 | TA211344.0870 |
| 8.73 | | | 103 | 61 | 49 | 40 | 1.5 | 10 | TA211344.0873 |

BasicDrill BD101-8xD



★ 8xD

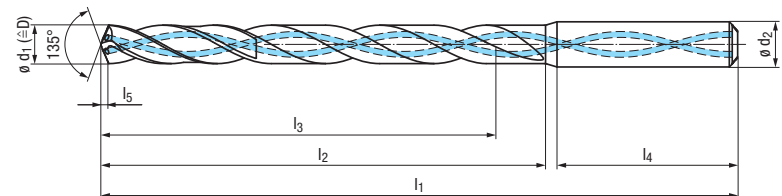
アプリケーション - 被削材

| | |
|---|------------------|
| P | 1.1-5.1 |
| M | 1.1-3.1 |
| K | 1.1-4.2 |
| N | 1.1-2.3 |
| S | 1.2-1.3, 2.2-2.3 |
| H | 1.1-1.3 |

超硬ベーシックドリル 8xD

製品の仕様と特長:

- 4マージン仕様で高いガイド性能と安定した加工品質
- 油穴付きに加え、独自の高性能コーティングで高いプロセス安全性
- 鋼を中心に様々な被削材に適用できる高い汎用性



エクストラロングデザイン

製品情報はQRコードからwebでもご確認頂けます



| ø d ₁ m7 | 切削タップ 下穴 | 転造タップ 下穴 | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | ø d ₂ h6 | ベーシックドリル BD106-8xD | |
|------------------------|-------------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|------------------------|-----------------------|---------------|
| | | | | | | | | | HA | |
| 3.00 | M3.5x0.5 / MJ3.5x0.6 | | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0300 |
| 3.10 | | | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0310 |
| 3.15 | M3.5x0.35 | #6-32 | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0315 |
| 3.18 | | | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0318 |
| 3.20 | MJ3.5x0.35 | | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0320 |
| 3.22 | | #6-40 | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0322 |
| 3.25 | | M3.5 | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0325 |
| 3.30 | M4 | M3.5x0.5 | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0330 |
| 3.35 | | | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0335 |
| 3.38 | | M3.5x0.35 | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0338 |
| 3.40 | MJ4x0.7 | | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0340 |
| 3.50 | M4x0.5 / #8-32 / #8-36 | | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0350 |
| 3.57 | | | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0357 |
| 3.60 | MJ4x0.5 | | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0360 |
| 3.65 | M4x0.35 | | 78 | 38 | 30 | 36 | 0.7 | 6 | | TA221344.0365 |
| 3.70 | M4.5 | M4 | 78 | 38 | 30 | 36 | 0.8 | 6 | | TA221344.0370 |
| 3.80 | | M4x0.5 / #8-32 | 88 | 48 | 38 | 36 | 0.8 | 6 | | TA221344.0380 |
| 3.85 | | #8-36 | 88 | 48 | 38 | 36 | 0.8 | 6 | | TA221344.0385 |
| 3.88 | | M4x0.35 | 88 | 48 | 38 | 36 | 0.9 | 6 | | TA221344.0388 |
| 3.90 | MJ4.5x0.75 / #10-24 | | 88 | 48 | 38 | 36 | 0.9 | 6 | | TA221344.0390 |
| 3.97 | | | 88 | 48 | 38 | 36 | 0.9 | 6 | | TA221344.0397 |
| 4.00 | | | 88 | 48 | 38 | 36 | 0.9 | 6 | | TA221344.0400 |
| 4.04 | | | 88 | 48 | 38 | 36 | 0.9 | 6 | | TA221344.0404 |
| 4.10 | MJ4.5x0.5 / #10-32 | | 88 | 48 | 38 | 36 | 0.9 | 6 | | TA221344.0410 |
| 4.15 | M5x0.9 | | 88 | 48 | 38 | 36 | 0.9 | 6 | | TA221344.0415 |
| 4.20 | M5 / M5x0.75 | M4,5 | 88 | 48 | 38 | 36 | 0.9 | 6 | | TA221344.0420 |
| 4.30 | MJ5x0.8 | M4.5x0.5 / #10-24 (GAL) | 88 | 48 | 38 | 36 | 0.9 | 6 | | TA221344.0430 |
| 4.35 | | #10-24 | 88 | 48 | 38 | 36 | 0.9 | 6 | | TA221344.0435 |
| 4.37 | | | 88 | 48 | 38 | 36 | 0.9 | 6 | | TA221344.0437 |
| 4.40 | | | 88 | 48 | 38 | 36 | 1.0 | 6 | | TA221344.0440 |
| 4.45 | | #10-32 | 88 | 48 | 38 | 36 | 1.0 | 6 | | TA221344.0445 |
| 4.50 | M5x0.5 / #12-24 | | 88 | 48 | 38 | 36 | 1.0 | 6 | | TA221344.0450 |
| 4.60 | M5.5 / MJ5x0.5 / #12-28 | | 88 | 48 | 38 | 36 | 1.0 | 6 | | TA221344.0460 |
| 4.65 | | M5 | 88 | 48 | 38 | 36 | 1.0 | 6 | | TA221344.0465 |
| 4.70 | | M5x0.75 | 88 | 48 | 38 | 36 | 1.0 | 6 | | TA221344.0470 |
| 4.76 | | | 97 | 60 | 48 | 36 | 1.0 | 6 | | TA221344.0476 |

| ø d ₁ m7 | 切削タップ 下穴 | 転造タップ 下穴 | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | ø d ₂ h6 | ベーシックドリル BD106-8xD | |
|------------------------|-----------------------|--------------------------|----------------|----------------|----------------|----------------|----------------|------------------------|-----------------------|---------------|
| | | | | | | | | | HA | |
| 4.80 | | M5x0.5 | 97 | 60 | 48 | 36 | 1.0 | 6 | | TA221344.0480 |
| 4.90 | | | 97 | 60 | 48 | 36 | 1.1 | 6 | | TA221344.0490 |
| 5.00 | M6 | #12-24 | 97 | 60 | 48 | 36 | 1.1 | 6 | | TA221344.0500 |
| new 5.05 | | | 97 | 60 | 48 | 36 | 1.1 | 6 | | TA221344.0505 |
| 5.10 | MJ6x1 / 1/4-20 | M5.5 / #12-28 | 97 | 60 | 48 | 36 | 1.1 | 6 | | TA221344.0510 |
| 5.11 | | | 97 | 60 | 48 | 36 | 1.1 | 6 | | TA221344.0511 |
| 5.16 | | | 97 | 60 | 48 | 36 | 1.1 | 6 | | TA221344.0516 |
| 5.20 | M6x0.75 | | 97 | 60 | 48 | 36 | 1.1 | 6 | | TA221344.0520 |
| 5.30 | | M5.5x0.5 | 97 | 60 | 48 | 36 | 1.1 | 6 | | TA221344.0530 |
| 5.40 | | | 97 | 60 | 48 | 36 | 1.2 | 6 | | TA221344.0540 |
| 5.41 | | | 97 | 60 | 48 | 36 | 1.2 | 6 | | TA221344.0541 |
| 5.50 | M6x0.5 / 1/4-28 | | 97 | 60 | 48 | 36 | 1.2 | 6 | | TA221344.0550 |
| 5.55 | | M6 (GAL) | 97 | 60 | 48 | 36 | 1.2 | 6 | | TA221344.0555 |
| 5.56 | | | 97 | 60 | 48 | 36 | 1.2 | 6 | | TA221344.0556 |
| 5.60 | MJ6x0.5 | M6 | 97 | 60 | 48 | 36 | 1.2 | 6 | | TA221344.0560 |
| 5.70 | | M6x0.75 / 1/4-20 (GAL) | 97 | 60 | 48 | 36 | 1.2 | 6 | | TA221344.0570 |
| 5.75 | | 1/4-20 | 97 | 60 | 48 | 36 | 1.2 | 6 | | TA221344.0575 |
| 5.80 | | M6x0.5 | 97 | 60 | 48 | 36 | 1.3 | 6 | | TA221344.0580 |
| 5.90 | | | 97 | 60 | 48 | 36 | 1.3 | 6 | | TA221344.0590 |
| 5.95 | | 1/4-28 | 97 | 60 | 48 | 36 | 1.3 | 6 | | TA221344.0595 |
| 6.00 | M7 | | 97 | 60 | 48 | 36 | 1.3 | 6 | | TA221344.0600 |
| 6.10 | MJ7x1 | | 107 | 70 | 56 | 36 | 1.3 | 8 | | TA221344.0610 |
| new 6.15 | | | 107 | 70 | 56 | 36 | 1.3 | 8 | | TA221344.0615 |
| 6.20 | M7x0.75 | | 107 | 70 | 56 | 36 | 1.3 | 8 | | TA221344.0620 |
| 6.30 | | | 107 | 70 | 56 | 36 | 1.4 | 8 | | TA221344.0630 |
| 6.35 | MJ7x0.75 | | 107 | 70 | 56 | 36 | 1.4 | 8 | | TA221344.0635 |
| 6.40 | | | 107 | 70 | 56 | 36 | 1.4 | 8 | | TA221344.0640 |
| 6.50 | M7x0.5 | | 107 | 70 | 56 | 36 | 1.4 | 8 | | TA221344.0650 |
| 6.53 | | | 107 | 70 | 56 | 36 | 1.4 | 8 | | TA221344.0653 |
| 6.60 | 5/16-18 | M7 | 107 | 70 | 56 | 36 | 1.4 | 8 | | TA221344.0660 |
| 6.70 | | M7x0.75 | 107 | 70 | 56 | 36 | 1.4 | 8 | | TA221344.0670 |
| 6.75 | | | 107 | 70 | 56 | 36 | 1.4 | 8 | | TA221344.0675 |
| 6.80 | M8 / G1/16 | M7x0.5 | 107 | 70 | 56 | 36 | 1.5 | 8 | | TA221344.0680 |
| 6.90 | MJ8x1.25 / 5/16-24 | | 107 | 70 | 56 | 36 | 1.5 | 8 | | TA221344.0690 |
| 7.00 | M8x1 | | 107 | 70 | 56 | 36 | 1.5 | 8 | | TA221344.0700 |
| 7.10 | MJ8x1 | | 107 | 70 | 56 | 36 | 1.5 | 8 | | TA221344.0710 |
| 7.15 | | | 107 | 70 | 56 | 36 | 1.5 | 8 | | TA221344.0715 |
| 7.20 | M8x0.75 | | 107 | 70 | 56 | 36 | 1.5 | 8 | | TA221344.0720 |
| 7.25 | | 5/16-18 (GAL) / G1/16 | 107 | 70 | 56 | 36 | 1.6 | 8 | | TA221344.0725 |
| 7.30 | | 5/16-18 | 107 | 70 | 56 | 36 | 1.6 | 8 | | TA221344.0730 |
| 7.40 | | M8 (GAL) / 5/16-24 (GAL) | 117 | 80 | 64 | 36 | 1.6 | 8 | | TA221344.0740 |
| 7.45 | | M8 / 5/16-24 | 117 | 80 | 64 | 36 | 1.6 | 8 | | TA221344.0745 |
| 7.50 | M8x0.5 | | 117 | 80 | 64 | 36 | 1.6 | 8 | | TA221344.0750 |
| 7.54 | | | 117 | 80 | 64 | 36 | 1.6 | 8 | | TA221344.0754 |
| 7.60 | | M8x1 | 117 | 80 | 64 | 36 | 1.6 | 8 | | TA221344.0760 |
| 7.70 | | M8x0.75 | 117 | 80 | 64 | 36 | 1.6 | 8 | | TA221344.0770 |
| 7.80 | M9 | M8x0.5 | 117 | 80 | 64 | 36 | 1.7 | 8 | | TA221344.0780 |
| 7.90 | MJ9x1.25 | | 117 | 80 | 64 | 36 | 1.7 | 8 | | TA221344.0790 |
| 7.94 | | | 117 | 80 | 64 | 36 | 1.7 | 8 | | TA221344.0794 |
| 8.00 | M9x1 / 3/8-16 | | 117 | 80 | 64 | 36 | 1.7 | 8 | | TA221344.0800 |
| 8.10 | MJ9x1 | | 141 | 100 | 80 | 40 | 1.7 | 10 | | TA221344.0810 |
| 8.20 | M9x0.75 | | 141 | 100 | 80 | 40 | 1.7 | 10 | | TA221344.0820 |
| 8.30 | | | 141 | 100 | 80 | 40 | 1.8 | 10 | | TA221344.0830 |
| 8.33 | | | 141 | 100 | 80 | 40 | 1.8 | 10 | | TA221344.0833 |
| 8.40 | | M9 (GAL) | 141 | 100 | 80 | 40 | 1.8 | 10 | | TA221344.0840 |
| 8.45 | | M9 | 141 | 100 | 80 | 40 | 1.8 | 10 | | TA221344.0845 |
| 8.50 | M10 / M9x0.5 / 3/8-24 | | 141 | 100 | 80 | 40 | 1.8 | 10 | | TA221344.0850 |
| 8.60 | MJ10x1.5 | M9x1 | 141 | 100 | 80 | 40 | 1.8 | 10 | | TA221344.0860 |
| 8.70 | | M9x0.75 | 141 | 100 | 80 | 40 | 1.9 | 10 | | TA221344.0870 |
| 8.73 | | | 141 | 100 | 80 | 40 | 1.9 | 10 | | TA221344.0873 |

| ø d ₁ m7 | 切削タップ 下穴 | | 転造タップ 下穴 | | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | ø d ₂ h6 | ベーシックドリル BD106-8xD | |
|------------------------|---------------------|-----------------------|-------------|-----|----------------|----------------|----------------|----------------|----------------------|------------------------|-----------------------|--|
| | HA | | | | | | | | | | | |
| 8.80 | M10x1.25 / G1/8 | M9x0.5 / 3/8-16 | 141 | 100 | 80 | 40 | 1.9 | 10 | TA221344.0880 | | | |
| 8.90 | MJ10x1.25 | | 141 | 100 | 80 | 40 | 1.9 | 10 | TA221344.0890 | | | |
| 9.00 | M10x1 | 3/8-24 (GAL) | 141 | 100 | 80 | 40 | 1.9 | 10 | TA221344.0900 | | | |
| 9.05 | | 3/8-24 | 141 | 100 | 80 | 40 | 1.9 | 10 | TA221344.0905 | | | |
| 9.10 | MJ10x1 | | 141 | 100 | 80 | 40 | 1.9 | 10 | TA221344.0910 | | | |
| 9.13 | | | 141 | 100 | 80 | 40 | 1.9 | 10 | TA221344.0913 | | | |
| 9.20 | M10x0.75 | | 141 | 100 | 80 | 40 | 2.0 | 10 | TA221344.0920 | | | |
| new 9.25 | | | 141 | 100 | 80 | 40 | 2.0 | 10 | TA221344.0925 | | | |
| 9.30 | | M10 (GAL) | 141 | 100 | 80 | 40 | 2.0 | 10 | TA221344.0930 | | | |
| 9.35 | MJ10x0.75 | M10 | 141 | 100 | 80 | 40 | 2.0 | 10 | TA221344.0935 | | | |
| 9.40 | 7/16-14 | M10x1.25 (GAL) | 141 | 100 | 80 | 40 | 2.0 | 10 | TA221344.0940 | | | |
| 9.45 | | M10x1.25 | 141 | 100 | 80 | 40 | 2.0 | 10 | TA221344.0945 | | | |
| 9.50 | M11 / M10x0.5 | | 141 | 100 | 80 | 40 | 2.0 | 10 | TA221344.0950 | | | |
| 9.53 | | | 141 | 100 | 80 | 40 | 2.0 | 10 | TA221344.0953 | | | |
| 9.60 | MJ10x0.5 / MJ11x1.5 | M10x1 | 141 | 100 | 80 | 40 | 2.0 | 10 | TA221344.0960 | | | |
| 9.70 | | M10x0.75 | 141 | 100 | 80 | 40 | 2.1 | 10 | TA221344.0970 | | | |
| 9.80 | | M10x0.5 | 141 | 100 | 80 | 40 | 2.1 | 10 | TA221344.0980 | | | |
| 9.90 | MJ11x1.25 / 7/16-20 | | 141 | 100 | 80 | 40 | 2.1 | 10 | TA221344.0990 | | | |
| 9.92 | | | 141 | 100 | 80 | 40 | 2.1 | 10 | TA221344.0992 | | | |
| 10.00 | M11x1 | | 141 | 100 | 80 | 40 | 2.1 | 10 | TA221344.1000 | | | |
| new 10.05 | | | 166 | 120 | 96 | 45 | 2.1 | 12 | TA221344.1005 | | | |
| 10.10 | MJ11x1 | | 166 | 120 | 96 | 45 | 2.1 | 12 | TA221344.1010 | | | |
| new 10.15 | | | 166 | 120 | 96 | 45 | 2.2 | 12 | TA221344.1015 | | | |
| 10.20 | M12 / M11x0.75 | 7/16-14 (GAL) | 166 | 120 | 96 | 45 | 2.2 | 12 | TA221344.1020 | | | |
| 10.25 | | 7/16-14 | 166 | 120 | 96 | 45 | 2.2 | 12 | TA221344.1025 | | | |
| 10.30 | | M11 (GAL) | 166 | 120 | 96 | 45 | 2.2 | 12 | TA221344.1030 | | | |
| 10.32 | | | 166 | 120 | 96 | 45 | 2.2 | 12 | TA221344.1032 | | | |
| 10.35 | MJ11x0.75 | M11 | 166 | 120 | 96 | 45 | 2.2 | 12 | TA221344.1035 | | | |
| 10.40 | | | 166 | 120 | 96 | 45 | 2.2 | 12 | TA221344.1040 | | | |
| 10.50 | M12x1.5 | 7/16-20 (GAL) | 166 | 120 | 96 | 45 | 2.2 | 12 | TA221344.1050 | | | |
| 10.55 | | M11x1 (GAL) / 7/16-20 | 166 | 120 | 96 | 45 | 2.2 | 12 | TA221344.1055 | | | |
| new 10.60 | | M11x1 | 166 | 120 | 96 | 45 | 2.3 | 12 | TA221344.1060 | | | |
| 10.72 | | | 166 | 120 | 96 | 45 | 2.3 | 12 | TA221344.1072 | | | |
| 10.80 | M12x1.25 / 1/2-13 | | 166 | 120 | 96 | 45 | 2.3 | 12 | TA221344.1080 | | | |
| 10.90 | MJ12x1.5 | | 166 | 120 | 96 | 45 | 2.3 | 12 | TA221344.1090 | | | |
| 11.00 | M12x1 | | 166 | 120 | 96 | 45 | 2.3 | 12 | TA221344.1100 | | | |
| new 11.10 | | | 166 | 120 | 96 | 45 | 2.3 | 12 | TA221344.1110 | | | |
| 11.11 | | | 166 | 120 | 96 | 45 | 2.3 | 12 | TA221344.1111 | | | |
| 11.20 | M12x0.75 | M12 (GAL) | 166 | 120 | 96 | 45 | 2.4 | 12 | TA221344.1120 | | | |
| 11.25 | | M12 | 166 | 120 | 96 | 45 | 2.4 | 12 | TA221344.1125 | | | |
| 11.30 | | M12x1.5 (GAL) | 166 | 120 | 96 | 45 | 2.4 | 12 | TA221344.1130 | | | |
| 11.35 | | M12x1.5 | 166 | 120 | 96 | 45 | 2.4 | 12 | TA221344.1135 | | | |
| 11.40 | | M12x1.25 (GAL) | 166 | 120 | 96 | 45 | 2.4 | 12 | TA221344.1140 | | | |
| 11.45 | | M12x1.25 | 166 | 120 | 96 | 45 | 2.4 | 12 | TA221344.1145 | | | |
| 11.50 | 1/2-20 | | 166 | 120 | 96 | 45 | 2.4 | 12 | TA221344.1150 | | | |
| 11.51 | | | 166 | 120 | 96 | 45 | 2.4 | 12 | TA221344.1151 | | | |
| 11.60 | | M12x1 | 166 | 120 | 96 | 45 | 2.5 | 12 | TA221344.1160 | | | |
| new 11.70 | | | 166 | 120 | 96 | 45 | 2.5 | 12 | TA221344.1170 | | | |
| 11.80 | G1/4 | 1/2-13 | 166 | 120 | 96 | 45 | 2.5 | 12 | TA221344.1180 | | | |
| 11.90 | | | 166 | 120 | 96 | 45 | 2.5 | 12 | TA221344.1190 | | | |
| 11.91 | | | 166 | 120 | 96 | 45 | 2.5 | 12 | TA221344.1191 | | | |
| 12.00 | M14 | | 166 | 120 | 96 | 45 | 2.5 | 12 | TA221344.1200 | | | |
| 12.10 | MJ13x1 | 1/2-20 (GAL) | 186 | 140 | 112 | 45 | 2.5 | 14 | TA221344.1210 | | | |
| 12.15 | | 1/2-20 | 186 | 140 | 112 | 45 | 2.5 | 14 | TA221344.1215 | | | |
| 12.20 | 9/16-12 | | 186 | 140 | 112 | 45 | 2.5 | 14 | TA221344.1220 | | | |
| 12.30 | | | 186 | 140 | 112 | 45 | 2.6 | 14 | TA221344.1230 | | | |
| 12.50 | M14x1.5 | G1/4 (GAL) | 186 | 140 | 112 | 45 | 2.6 | 14 | TA221344.1250 | | | |
| 12.55 | | M13x1 (GAL) / G1/4 | 186 | 140 | 112 | 45 | 2.6 | 14 | TA221344.1255 | | | |
| 12.60 | MJ14x1.5 | M13x1 | 186 | 140 | 112 | 45 | 2.7 | 14 | TA221344.1260 | | | |
| 12.70 | | M13x0.75 | 186 | 140 | 112 | 45 | 2.7 | 14 | TA221344.1270 | | | |

| ø d ₁ m7 | 切削タップ 下穴 | | 転造タップ 下穴 | | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | ø d ₂ h6 | ベーシックドリル BD106-8xD | |
|------------------------|---------------------|-----------------------|-------------|-----|----------------|----------------|----------------|----------------|----------------------|------------------------|-----------------------|--|
| | HA | | | | | | | | | | | |
| 12.80 | M14x1.25 | | 186 | 140 | 112 | 45 | 2.7 | 14 | TA221344.1280 | | | |
| 12.90 | MJ14x1.25 / 9/16-18 | | 186 | 140 | 112 | 45 | 2.7 | 14 | TA221344.1290 | | | |
| 13.00 | M14x1 | | 186 | 140 | 112 | 45 | 2.8 | 14 | TA221344.1300 | | | |
| 13.10 | MJ14x1 | M14 | 186 | 140 | 112 | 45 | 2.8 | 14 | TA221344.1310 | | | |
| 13.30 | | 9/16-12 | 186 | 140 | 112 | 45 | 2.8 | 14 | TA221344.1330 | | | |
| 13.35 | | M14x1.5 | 186 | 140 | 112 | 45 | 2.8 | 14 | TA221344.1335 | | | |
| 13.45 | | M14x1.25 | 186 | 140 | 112 | 45 | 2.8 | 14 | TA221344.1345 | | | |
| 13.49 | | | 186 | 140 | 112 | 45 | 2.8 | 14 | TA221344.1349 | | | |
| 13.50 | 5/8-11 | | 186 | 140 | 112 | 45 | 2.8 | 14 | TA221344.1350 | | | |
| 13.60 | MJ15x1.5 | M14x1 / 9/16-18 (GAL) | 186 | 140 | 112 | 45 | 2.9 | 14 | TA221344.1360 | | | |
| 13.65 | | 9/16-18 | 186 | 140 | 112 | 45 | 2.9 | 14 | TA221344.1365 | | | |
| 13.70 | | M14x0.75 | 186 | 140 | 112 | 45 | 2.9 | 14 | TA221344.1370 | | | |
| 13.80 | | | 186 | 140 | 112 | 45 | 2.9 | 14 | TA221344.1380 | | | |
| 13.89 | | | 186 | 140 | 112 | 45 | 2.9 | 14 | TA221344.1389 | | | |
| 14.00 | M16 / M15x1 | | 186 | 140 | 112 | 45 | 2.9 | 14 | TA221344.1400 | | | |
| 14.10 | MJ15x1 | | 209 | 160 | 128 | 48 | 3.0 | 16 | TA221344.1410 | | | |
| 14.20 | M15x0.75 | | 209 | 160 | 128 | 48 | 3.0 | 16 | TA221344.1420 | | | |
| 14.29 | | | 209 | 160 | 128 | 48 | 3.0 | 16 | TA221344.1429 | | | |
| 14.50 | M16x1.5 / 5/8-18 | | 209 | 160 | 128 | 48 | 3.1 | 16 | TA221344.1450 | | | |
| 14.60 | MJ16x1.5 | M15x1 | 209 | 160 | 128 | 48 | 3.1 | 16 | TA221344.1460 | | | |
| 14.68 | | | 209 | 160 | 128 | 48 | 3.1 | 16 | TA221344.1468 | | | |
| 14.70 | | M15x0.75 | 209 | 160 | 128 | 48 | 3.1 | 16 | TA221344.1470 | | | |
| 14.80 | | 5/8-11 | 209 | 160 | 128 | 48 | 3.1 | 16 | TA221344.1480 | | | |
| 15.00 | M16x1 | | 209 | 160 | 128 | 48 | 3.1 | 16 | TA221344.1500 | | | |
| 15.08 | | | 209 | 160 | 128 | 48 | 3.2 | 16 | TA221344.1508 | | | |
| 15.10 | MJ16x1 | M16 | 209 | 160 | 128 | 48 | 3.2 | 16 | TA221344.1510 | | | |
| 15.20 | M16x0.75 | 5/8-18 (GAL) | 209 | 160 | 128 | 48 | 3.2 | 16 | TA221344.1520 | | | |
| 15.25 | G3/8 | 5/8-18 | 209 | 160 | 128 | 48 | 3.2 | 16 | TA221344.1525 | | | |
| new 15.30 | | | 209 | 160 | 128 | 48 | 3.2 | 16 | TA221344.1530 | | | |
| 15.35 | | M16x1.5 | 209 | 160 | 128 | 48 | 3.2 | 16 | TA221344.1535 | | | |
| 15.50 | M18 | | 209 | 160 | 128 | 48 | 3.3 | 16 | TA221344.1550 | | | |
| 15.60 | | M16x1 | 209 | 160 | 128 | 48 | 3.3 | 16 | TA221344.1560 | | | |
| 15.80 | MJ18x2.5 | | 209 | 160 | 128 | 48 | 3.3 | 16 | TA221344.1580 | | | |
| 15.88 | | | 209 | 160 | 128 | 48 | 3.3 | 16 | TA221344.1588 | | | |
| 16.00 | M18x2 | | 209 | 160 | 128 | 48 | 3.4 | 16 | TA221344.1600 | | | |
| 16.27 | | | 229 | 180 | 144 | 48 | 3.4 | 18 | TA221344.1627 | | | |
| 16.50 | M18x1.5 / 3/4-10 | | 229 | 180 | 144 | 48 | 3.5 | 18 | TA221344.1650 | | | |
| 16.67 | | | 229 | 180 | 144 | 48 | 3.5 | 18 | TA221344.1667 | | | |
| 17.00 | M18x1 | | 229 | 180 | 144 | 48 | 3.6 | 18 | TA221344.1700 | | | |
| 17.46 | | | 229 | 180 | 144 | 48 | 3.7 | 18 | TA221344.1746 | | | |
| 17.50 | M20 / 3/4-16 | | 229 | 180 | 144 | 48 | 3.7 | 18 | TA221344.1750 | | | |
| 18.00 | M20x2 | | 229 | 180 | 144 | 48 | 3.8 | 18 | TA221344.1800 | | | |

太字：標準在庫品
細字：標準品、在庫お問い合わせ

BasicDrill CM C-QuickLine **new**



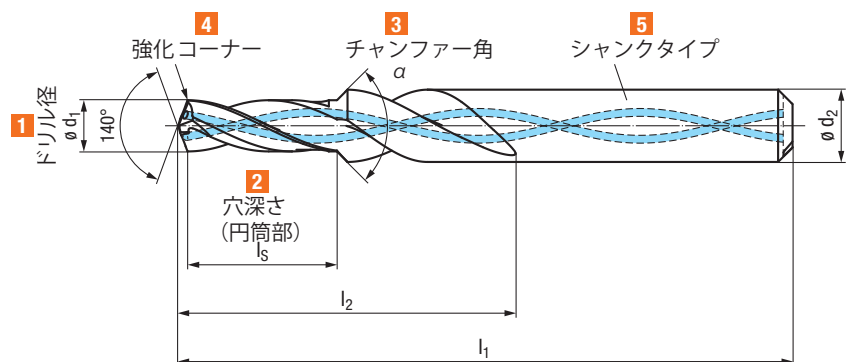
チャンファー付き超硬ベーシックドリル クイックライン

製品の仕様と特長:

- 4マージン仕様で高いガイド性能と安定した加工品質
- 油穴付きに加え、独自の高性能コーティングで高いプロセス安全性
- 鋼を中心に様々な被削材に適用できる高い汎用性

アプリケーション - 被削材

| | |
|---|------------------|
| P | 1.1-5.1 |
| M | 1.1-3.1 |
| K | 1.1-4.2 |
| N | 1.1-2.3 |
| S | 1.2-1.3, 2.2-2.3 |
| H | 1.1-1.3 |



お客様の加工に最適な形状のドリルを設計するため、1-5の各寸法を範囲内でご指定ください。

| 1 | 2 | 3 | 4 | 5 | | | | |
|------------------------|------------------------|-----------|----------|---------------------|----------------|----------------|------------------------|-----------------|
| φ d ₁ m7 | l _s ±0,1 | α ±2° | 強化コーナー | シャンクタイプ DIN 6535 | l ₁ | l ₂ | φ d ₂ h6 | |
| 2.80 - 3.10 | 4.00 - 11.00 | 30 - 160° | yes / no | HA HB HE | 57 | 20 | 6 | TG001344.060001 |
| 3.11 - 3.40 | 4.00 - 12.00 | 30 - 160° | yes / no | HA HB HE | 62 | 25 | 6 | TG001344.060002 |
| 3.41 - 3.80 | 4.00 - 13.00 | 30 - 160° | yes / no | HA HB HE | 62 | 25 | 6 | TG001344.060003 |
| 3.81 - 4.50 | 4.00 - 16.00 | 30 - 160° | yes / no | HA HB HE | 66 | 29 | 6 | TG001344.060004 |
| 4.51 - 5.00 | 4.00 - 18.00 | 30 - 160° | yes / no | HA HB HE | 79 | 42 | 8 | TG001344.080001 |
| 5.01 - 6.00 | 4.00 - 25.00 | 30 - 160° | yes / no | HA HB HE | 79 | 42 | 8 | TG001344.080002 |
| 6.01 - 7.00 | 4.00 - 25.00 | 30 - 160° | yes / no | HA HB HE | 89 | 48 | 10 | TG001344.100001 |
| 7.01 - 8.00 | 4.00 - 28.00 | 30 - 160° | yes / no | HA HB HE | 89 | 48 | 10 | TG001344.100002 |
| 8.01 - 10.00 | 4.00 - 35.00 | 30 - 160° | yes / no | HA HB HE | 102 | 56 | 12 | TG001344.120001 |
| 10.01 - 12.00 | 4.00 - 42.00 | 30 - 160° | yes / no | HA HB HE | 107 | 61 | 14 | TG001344.140001 |
| 12.01 - 14.00 | 4.00 - 49.00 | 30 - 160° | yes / no | HA HB HE | 115 | 66 | 16 | TG001344.160001 |
| 14.01 - 16.00 | 4.00 - 54.00 | 30 - 160° | yes / no | HA HB HE | 123 | 74 | 18 | TG001344.180001 |
| 16.01 - 18.00 | 4.00 - 54.00 | 30 - 160° | yes / no | HA HB HE | 131 | 80 | 20 | TG001344.200001 |

* クイックラインは少量・短納期対応のチャンファードリル カスタマイズサービスです。
* 最小数量3本から30本まで短納期で対応いたします。



再研磨・再コーティングサービス

経済的・効率的にドリルを使用し続けるためには、再研磨・再コーティングサービスを欠かすことができません。

エムゲ社での再研磨・再コーティングサービスで新品と同じ刃型・コーティングへ再生することで、新品と同様の性能を保証致します。

詳細はお問い合わせください。

対象被削材と切削条件表

注記: 表中に記載されている切削条件は基準値です。それぞれの加工環境 (被削材、切削油、機械など) にあわせて適宜ご調整ください。

v_c = 切削速度 [m/min]
f = 回転送り [mm/rev.]



Table with columns for Applications - materia, Tensile Strength, Material examples, Material examples, Cutting oil recommendation, v_c [m/min], and d1 [mm]. It lists various materials like steel, stainless steel, cast iron, aluminum, copper, titanium, and high-speed steel with their respective cutting parameters.

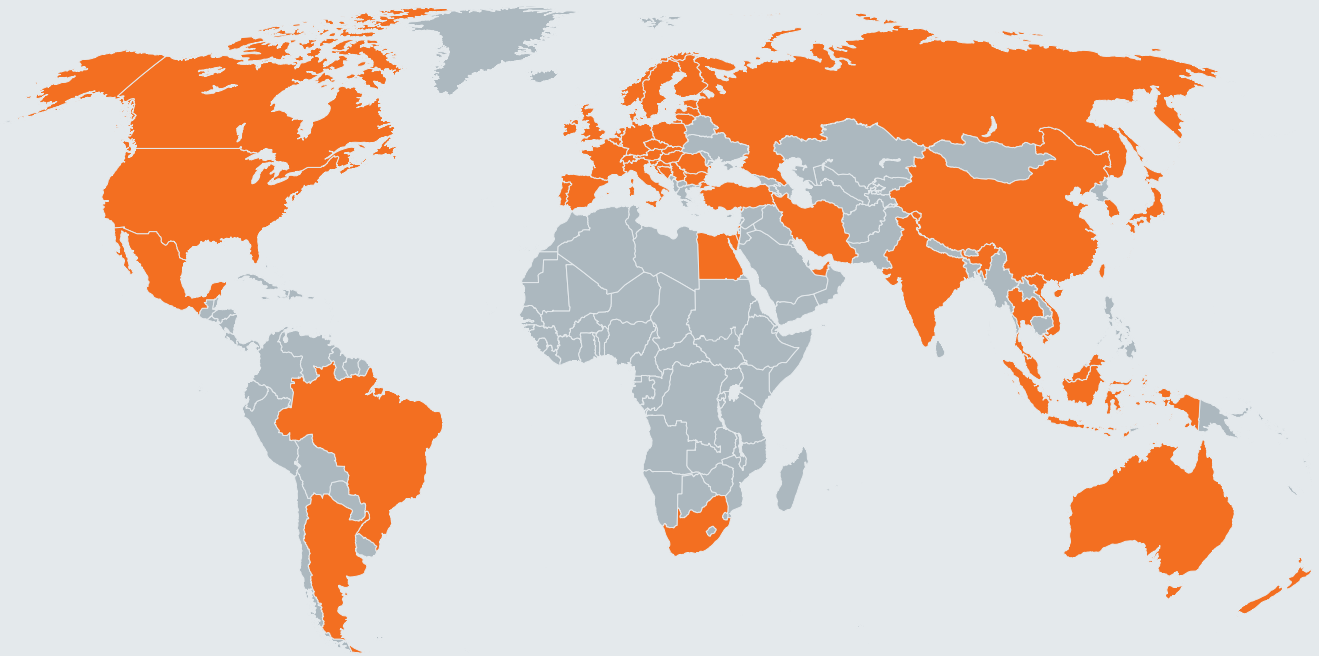
対象被削材と切削条件表

注記：
表中に記載されている切削条件は基準値です。それぞれの加工環境（被削材、切削油、機械など）にあわせて適宜ご調整ください。

v_c = 切削速度 [m/min]
f = 回転送り [mm/rev.]



Main data table with columns for material groups (e.g., 鋼, ステンレス, 鋳鉄), tensile strength, material examples, and cutting parameters (v_c, f) for various drill diameters (d_1).



EMUGE-FRANKEN Vertriebspartner finden Sie auf www.emuge-franken.com/vertrieb

EMUGE-Werk Richard Glimpel GmbH & Co. KG

Fabrik für Präzisionswerkzeuge

🏠 Nürnberger Straße 96-100
91207 Lauf
GERMANY

☎ +49 (0) 9123 / 186-0
📠 +49 (0) 9123 / 14313

FRANKEN GmbH & Co. KG

Fabrik für Präzisionswerkzeuge

🏠 Frankenstraße 7/9a
90607 Rückersdorf
GERMANY

☎ +49 (0) 911 / 9575-5
📠 +49 (0) 911 / 9575-327

✉ info@emuge-franken.com 🌐 www.emuge-franken.com

EMUGE
FRANKEN

エムーゲ・フランケン株式会社

🏠 224-0041
横浜市都筑区仲町台1-32-10-403

☎ +81 (0) 45-945-7831 / 📠 +81 (0) 45-945-7832

✉ info@emuge-franken.jp
🌐 www.emuge-franken.jp

