



超硬フラットドリル

ADF

Carbide Flat Drill

Vol.8

新価格
体系
New Price
2022年11月

2Dタイプφ0.2～φ2
0.01mm飛びサイズ

2D type: new sizes from φ0.2～φ2 in 0.01 mm increment

ロングシャンクタイプ

0.1mm飛びサイズ

Long shank type: new sizes in 0.1 mm increment

小型自動旋盤対応型

Compatible with small automatic lathes

計268アイテム追加

268 new items added

A

The A Brand

INDEX

充実のラインナップ

Abundant lineup with a total of 1,465 items

全1,456アイテム

ADF is... ADFとは...

特長 Features P.3

加工データ Cutting Data P.5

超硬フラットドリル Carbide Flat Drill

■0.01mm飛びを含むφ0.2～φ20をラインナップ
Sizes in 0.01 mm increment from φ0.2～φ20

寸法表 Dimension P.9

条件表 Cutting Condition P.36

ADF-2D



油穴付き超硬フラットドリル Carbide Flat Drill with Oil Holes

■内部給油によりステンレス鋼の安定加工
Stable processing of stainless steel by internal lubrication

寸法表 Dimension P.27

条件表 Cutting Condition P.37

ADFO-3D



超硬フラットドリル (ロングシャンク) Carbide Flat Drill (Long Shank)

■干渉を回避できるロングシャンクタイプ
Long shank type ideal for avoiding interference

寸法表 Dimension P.30

条件表 Cutting Condition P.38

ADFLS-2D



小型自動旋盤対応型 Compatible with small automatic lathes

■小型自動旋盤に最適な形状設定
Optimal geometry ideal for small automatic lathes

超硬フラットドリル
Carbide Flat Drill

寸法表 Dimension P.34

条件表 Cutting Condition P.36

ADF-NC



油穴付き超硬フラットドリル
Carbide Flat Drill with Oil Holes

寸法表 Dimension P.35

条件表 Cutting Condition P.37

ADFO-NC



あらゆる「思い」に応えるために。

To accommodate "every application need."

✓ 抜けバリを改善
Improves exit burrs

✓ フラットな穴底面
Achieves excellent flat-bottom holes

✓ 斜面やクロス穴などの安定加工
Stable processing of inclined surfaces and cross-holes

✓ ステンレス鋼での
切りくずトラブルを回避
Eliminates chip problems in stainless steel applications

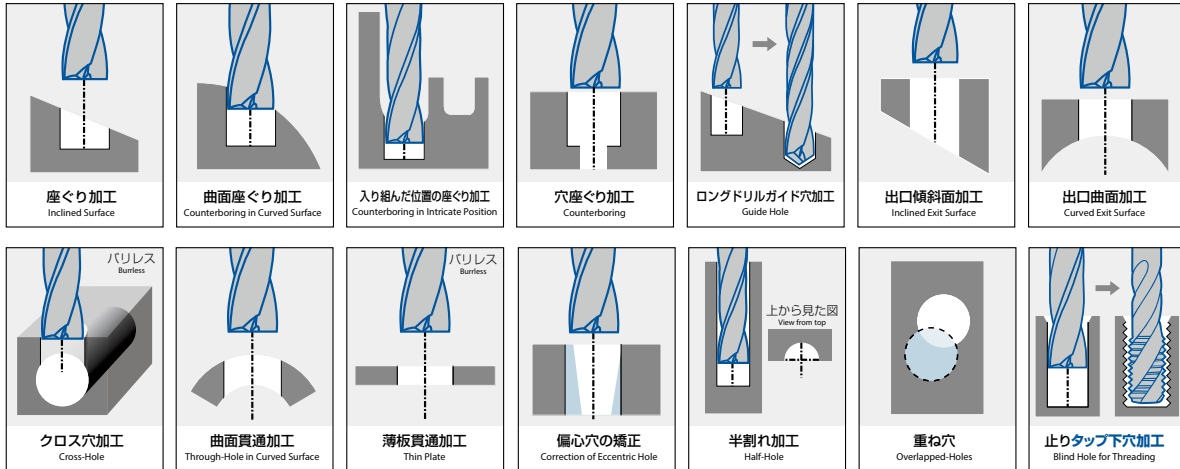
✓ 良好な穴精度
Good hole accuracy

ADFシリーズがこのすべてを実現します。

ADF series does it all.

■ 座ぐり穴、傾斜面、クロス穴など多様な用途に対応

Compatible with a wide variety of applications, from counterboring to inclined surfaces and cross-hole applications



径方向への切り込みはできません。
Radial cutting is not recommended.

etc...

※詳しくはp.8の豆知識まで
See p.8 for machining tips

■ 加工に応じて選べる2タイプ

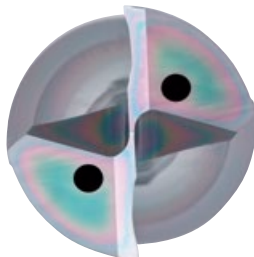
Two types of drills based on application

ADFO-3D

高性能タイプ
High performance



油穴付き
with Oil Hole



- ・優れた切りくず分断性[※]
Excellent chip breaking capability
- ・ステンレス鋼、軟鋼でも安定加工
Stable processing even in stainless steel and mild steel applications

- ・良好な穴精度を実現
Excellent hole accuracy
- ・省人化や工具集約
Reduces labor and consolidates tooling

ADF-2D・ADFLS-2D

汎用タイプ
General-purpose



油穴なし
Non Oil Hole



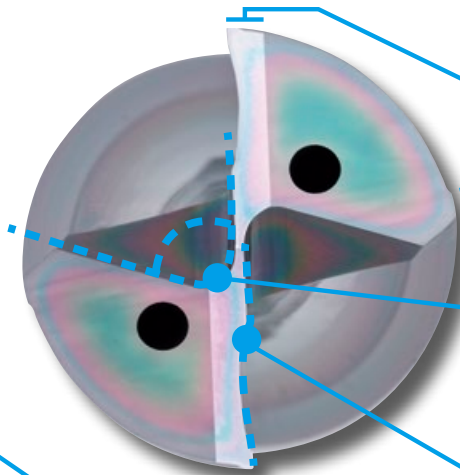
- ・傾斜面、曲面への加工が可能
Suitable for inclined surfaces and curved surfaces
- ・高いコストパフォーマンス
High cost performance

※詳細はp.5へ See p.5 for details

超硬フラットドリル ADFシリーズ

Carbide Flat Drill ADF Series

多様な加工用途に! Multi-Purpose!



高い直進性をサポートする
ダブルマージン

Double margin allows high precision straight cutting

※ ADFOシリーズに適用 Applies to the ADFO series

細かいカールを生み出す
鋭角ギャッシュ開き角

Sharp gash angle produces chips with fine curl

※ ADFOシリーズに適用 Applies to the ADFO series

剛性と切れ味を両立した
刃先

Cutting edge geometry with the perfect balance between rigidity and sharpness

※油穴はADFOシリーズに適用
Oil hole configuration applies to the ADFO series

剛性の高い20°ねじれ溝

20° helical grooves with high rigidity

この一本で
One Drill Does it All

様々な被削材への対応

Compatible with a wide variety of work materials

ADFOシリーズは、独特なギャッシュ仕様により
切りくず処理の難しい、ステンレス・軟鋼でも安定した
切りくず形状が得られます。

The ADFO series features a unique gash specification that enables the generation of stable chip shape even in challenging materials such as stainless steel and mild steel.

切りくずを細かく分断

Breaks chips into small, manageable pieces

詳細はp.5へ
See p.5 for details



動画はこちら
Watch it in action



被削材: SUS304 Work Material: SUS304

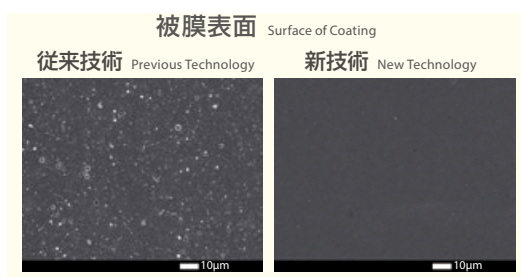


コーティング Coating

φ 2 未満
DC < φ 2

優れた表面平滑性を誇る IchAda コーティング

高い耐摩耗性と耐熱性に加え、優れた平滑性によって小径工具の長寿命化を実現
The excellent smoothness in conjunction with high abrasion resistance and heat resistance enable small diameter tools to achieve long tool life

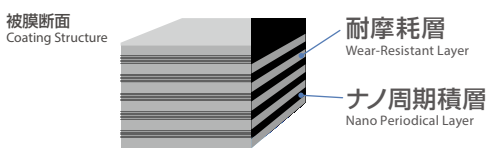


IchAdaはオーエスジー株式会社の登録商標です。 IchAda is a registered trademark of OSG Corporation.

φ 2 以上
φ 2 ≦ DC

耐摩耗性・じん性の高い EgiAs コーティング

高い耐摩耗性・耐熱性に加え、じん性に優れる皮膜で、長寿命と寿命安定化を実現
Constructed with extreme toughness, high wear and heat resistance characteristics to ensure stable and consistent tool life



| コーティングの名称 Name of Coating | 被膜色 Coating Color | 被膜構造 Coating Structure | 硬さ (GPa) Hardness | 酸化開始温度 (℃) Oxidation Temperature | 耐熱性 Heat Resistance | 付着力 Adhesion Strength | 面粗さ Surface roughness | 耐摩耗性 Wear Resistance | 耐凝着性 Welding Resistance | じん性 Toughness |
|------------------------------|---------------------------|--|----------------------|-------------------------------------|------------------------|--------------------------|--------------------------|-------------------------|----------------------------|------------------|
| IchAda | 黒灰色 Black Gray | Cr系単層 Cr Series Single Layer | 39 | 1,100 | ◎ | ◎ | ☆ | ◎ | ◎ | ○ |
| EgiAs | 干渉色 Interference Color | Cr, Si系 ナノ周期積層 Nano Periodical Layer | 40 | 1,100 | ◎ | ◎ | ○ | ◎ | ◎ | ◎ |

(標準) ○ → ◎ → ☆ (最適)
(Fair) (Best)

EgiAsはオーエスジー株式会社の登録商標です。 EgiAs is a registered trademark of OSG Corporation.

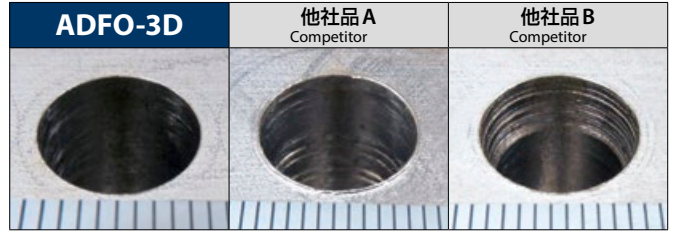
穴品位 Hole Quality

高い穴精度

穴品位の向上を実現
Improves hole quality

| | |
|-------------------------|--|
| 使用工具 Tool | ADFO-3D φ10 |
| 加工面 Machined Surface | 平面 Flat Surface |
| 被削材 Work Material | SUS304 |
| 切削速度 Cutting Speed | 50m/min (1,592min ⁻¹) |
| 送り速度 Feed | 239mm/min (0.15mm/rev) |
| 穴深さ Depth of Hole | 30mm (通り) (Through) |
| 切削油剤 Coolant | 水溶性切削油剤 Water-Soluble |
| 使用機械 Machine | 横形マシニングセンタ (BT40) Horizontal Machining Center |

■穴外観口元比較 Hole entrance comparison



ADFO-3Dは拡大代が少なく、良好な穴品位
The ADFO-3D has minimal expansion and demonstrates good hole quality

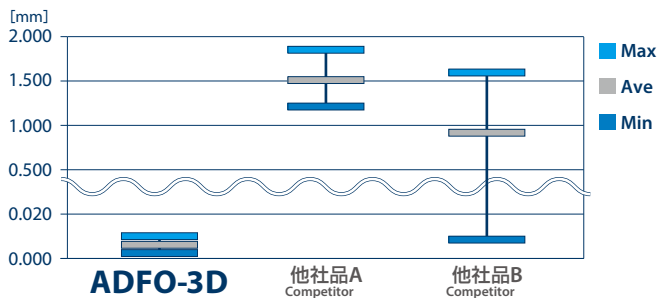


ステンレス鋼で絶対的なパフォーマンス Superior performance even in stainless steel



| | |
|-------------------------|--|
| 使用工具 Tool | ADFO-3D $\phi 10$ |
| 加工面 Machined Surface | 平面 Flat Surface |
| 被削材 Work Material | SUS304 |
| 切削速度 Cutting Speed | 50m/min (1,592min ⁻¹) |
| 送り速度 Feed | 239mm/min (0.15mm/rev) |
| 穴深さ Depth of Hole | 30mm (通り) (Through) |
| 切削油剤 Coolant | 水溶性切削油剤 Water-Soluble |
| 使用機械 Machine | 横形マシニングセンタ (BT40) Horizontal Machining Center |

■穴拡大代 Hole expansion comparison

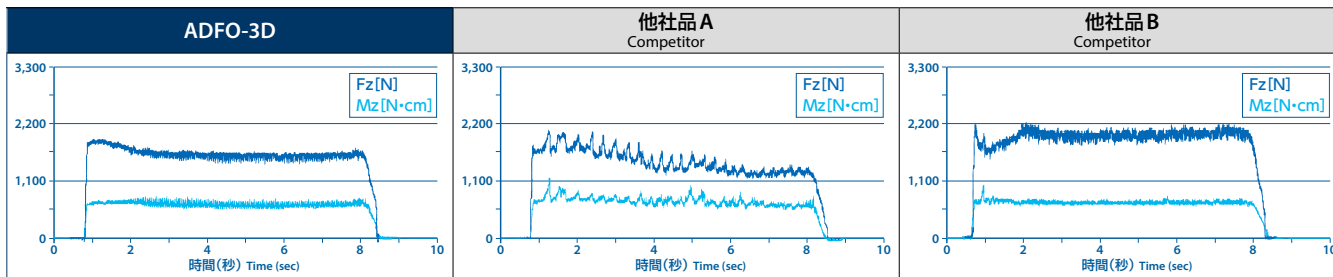


ADFO-3D穴拡大代小
ADFO-3D with minimal hole expansion variation



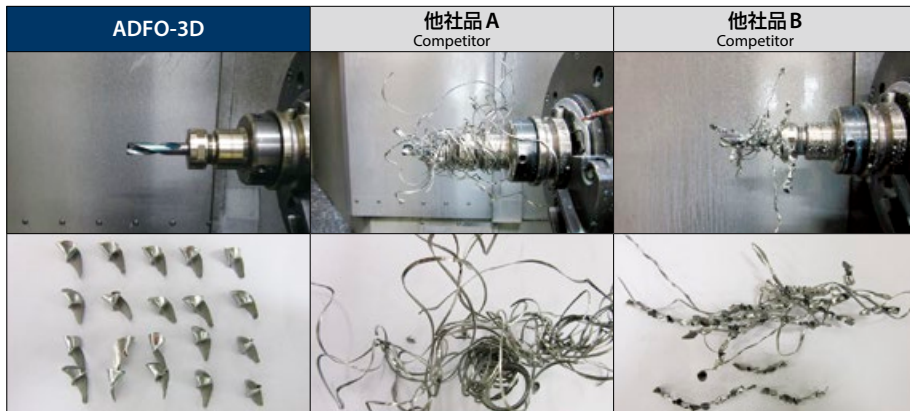
動画はこちら
Watch it in action

■切削抵抗波形 Cutting Resistance Waveform



スラスト、トルク共に安定(20°ねじれ溝による剛性確保) Stable thrust and torque (rigidity supported by the 20° helical grooves)
切りくず排出性良好(穴奥での切りくず詰まり無し) Good chip evacuation (with no clogging of chips inside hole)

■切りくず Chips



ADFO-3Dのみ切りくずを細かく分断 Only the ADFO-3D was capable of breaking chips into small, manageable pieces

■耐久性 Durability



| | 切削長さ (m) Cutting length | |
|-----------------|--|---|
| | 0 | 1 2 3 4 5 6 |
| ADFO-3D | 4.5m (150穴 Holes) フック部欠け Chipping in hook region | |
| 他社品A Competitor | 0.15m (5穴 Holes) | 切りくず巻き付き Tangled of chips 刃先欠け Chipping |
| 他社品B Competitor | 0.15m (5穴 Holes) | 切りくず巻き付き Tangled of chips |

ADFO-3Dのみ100穴以上の耐久性 Only the ADFO-3D demonstrated durability over 100 holes

5穴加工後の刃先の状態
State of cutting edge after machining 5 holes





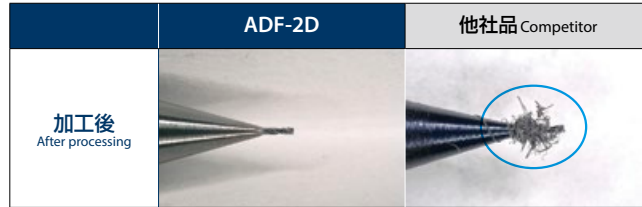
油穴なし
Non Oil Hole

小径でステンレス鋼を安定加工可能 Stable processing of stainless steel even in small diameter

| | |
|-------------------------|---|
| 使用工具 Tool | ADF-2D $\phi 0.2$ |
| 加工面 Machined Surface | 平面 Flat Surface |
| 被削材 Work Material | SUS304 |
| 切削速度 Cutting Speed | 25m/min (38,788min ⁻¹) |
| 送り速度 Feed | 58mm/min (0.0015mm/rev) |
| 穴深さ Depth of Hole | 0.4mm (止り) (Blind) |
| 切削油剤 Coolant | 水溶性切削油剤 Water-Soluble |
| 使用機械 Machine | 立形マシニングセンタ (HSK E25) Vertical Machining Center |



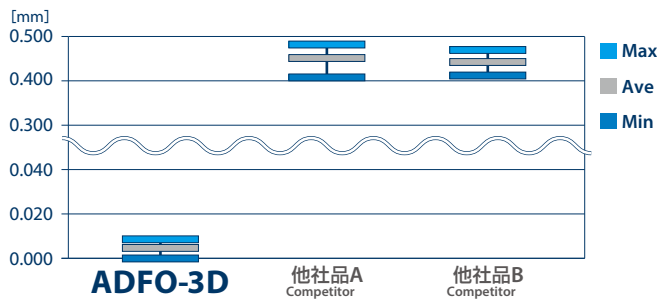
100穴加工後の比較 Comparison after processing 100 holes



油穴付き
with Oil Hole

| | |
|-------------------------|--|
| 使用工具 Tool | ADFO-3D $\phi 3$ |
| 加工面 Machined Surface | 平面 Flat Surface |
| 被削材 Work Material | SUS304 |
| 切削速度 Cutting Speed | 50m/min (5,305min ⁻¹) |
| 送り速度 Feed | 239mm/min (0.045mm/rev) |
| 穴深さ Depth of Hole | 9mm (通り) (Through) |
| 切削油剤 Coolant | 水溶性切削油剤 Water-Soluble |
| 使用機械 Machine | 横形マシニングセンタ (BT40) Horizontal Machining Center |

穴拡大代
Oversize



ADFO-3Dの穴拡大代、耐久性性能良好
ADFO-3D demonstrated controlled hole expansion and excellent durability

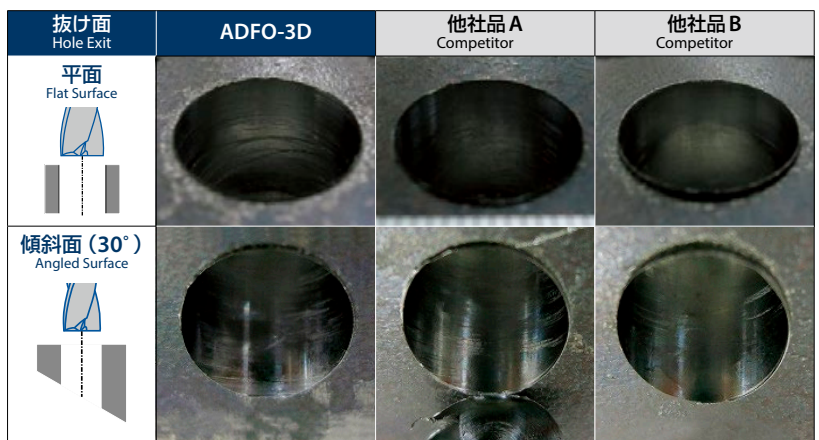


油穴付き
with Oil Hole

独自の刃形採用により抜けバリ抑制 Burrs suppressed by proprietary cutting edge geometry

| | |
|-------------------------|---|
| 使用工具 Tool | ADFO-3D $\phi 16$ |
| 加工面 Machined Surface | 平面 → 平面 Flat Surface Flat Surface 平面 → 傾斜面 (30°) Flat Surface Inclined Surface |
| 被削材 Work Material | SS400 |
| 切削速度 Cutting Speed | 100m/min (1,989min ⁻¹) |
| 送り速度 Feed | 636mm/min (0.32mm/rev) 318mm/min (0.16mm/rev) |
| 穴深さ Depth of Hole | 10mm (通り) (Through) 16.5mm (通り) (Through) |
| 切削油剤 Coolant | 水溶性切削油剤 Water-Soluble |
| 使用機械 Machine | 横形マシニングセンタ (BT50) Horizontal Machining Center |

抜けバリ比較 Comparison of exit burrs

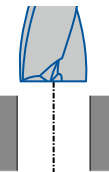


ADFO-3D：抜けバリ抑制
Burrs suppressed



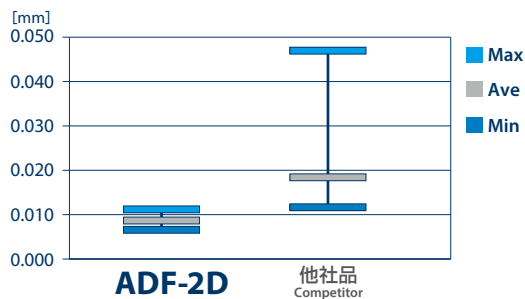
特長 Features
加工データ Cutting Data
油穴無 Non Oil Hole ADF-2D
油穴付き with Oil Hole ADFO-3D
ロングシャンク Long Shank ADFLS-2D
小型自動旋盤対応型 Compatible with small automatic lathes ADF-NC
ADFO-NC
切削条件表 Cutting Conditions

平面の加工 Flat Surface

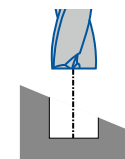


| | |
|-------------------------|--|
| 使用工具 Tool | ADF-2D $\phi 10$ |
| 加工面 Machined Surface | 平面 Flat Surface |
| 被削材 Work Material | S50C |
| 切削速度 Cutting Speed | 75m/min (2,387min ⁻¹) |
| 送り速度 Feed | 430mm/min (0.18mm/rev) |
| 穴深さ Depth of Hole | 20mm (通り) (Through) |
| 切削油剤 Coolant | 水溶性切削油剤 Water-Soluble |
| 使用機械 Machine | 横形マシニングセンタ (BT40) Horizontal Machining Center |

■穴拡大代 Oversize

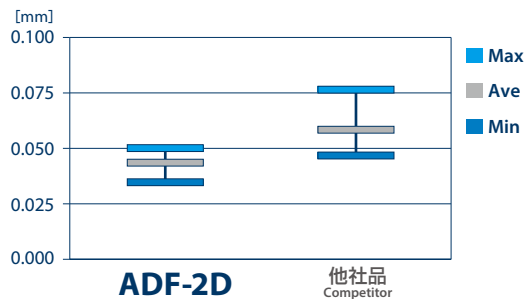


傾斜面の加工 Inclined Surface

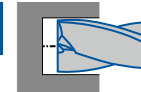


| | |
|-------------------------|--|
| 使用工具 Tool | ADF-2D $\phi 10$ |
| 加工面 Machined Surface | 傾斜面 (30°) Inclined Surface |
| 被削材 Work Material | SCM440 (30HRC) |
| 切削速度 Cutting Speed | 60m/min (1,910min ⁻¹) |
| 送り速度 Feed | 191mm/min (0.1mm/rev) |
| 穴深さ Depth of Hole | 20mm (止り) (Blind) |
| 切削油剤 Coolant | 水溶性切削油剤 Water-Soluble |
| 使用機械 Machine | 横形マシニングセンタ (BT40) Horizontal Machining Center |

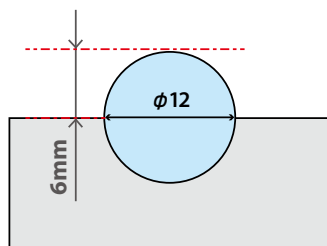
■穴位置ずれ量 Shift length in hole position



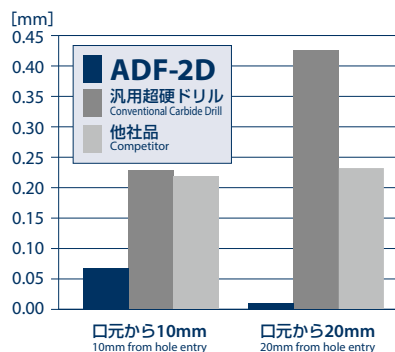
半割れ穴の加工 Half-Hole

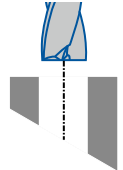


| | |
|-------------------------|--|
| 使用工具 Tool | ADF-2D $\phi 12$ |
| 加工面 Machined Surface | 平面 Flat Surface |
| 被削材 Work Material | S50C |
| 切削速度 Cutting Speed | 37m/min (982min ⁻¹) |
| 送り速度 Feed | 157mm/min (0.16mm/rev) |
| 穴深さ Depth of Hole | 24mm (止り) (Blind) |
| 切削油剤 Coolant | 水溶性切削油剤 Water-Soluble |
| 使用機械 Machine | 横形マシニングセンタ (BT40) Horizontal Machining Center |



■倒れ量 (口元から1mmの値を基準として)
Fallen amount (based on the value of 1 mm from hole entry)





| | | |
|-------------------------|---|---|
| 加工方法 Machining | 穴あけ加工 Drilling | タップ加工 Tapping |
| 使用工具 Tool | ADF-2D φ8.5 | 他社汎用超硬ドリル Competitor's General Carbide Drill |
| 加工面 Machined Surface | 平面 Flat Surface | 傾斜面 (30°) Inclined Surface |
| 被削材 Work Material | SS400 | |
| 切削速度 Cutting Speed | 50m/min (1,873min ⁻¹) | 30m/min (955min ⁻¹) |
| 送り速度 Feed | 318mm/min (0.17mm/rev) | — |
| 穴深さ Depth of Hole | 20mm (通り) (Through) | |
| 切削油剤 Coolant | 水溶性切削油剤 Water-Soluble | |
| 使用機械 Machine | 横形マシニングセンタ (同期送り機構付き) Horizontal Synchronized Machining Center | |

他社汎用超硬ドリルで加工すると抜けバリが大きいいためタップの耐久が不安定になる。
一方、ADFで加工するとタップの耐久は安定した。
With the use of a competitor's carbide general-purpose drill, large burrs were left resulting in instability of the after tapping process.
With the ADF, on the other hand, stable tapping performance can be achieved.

■使用ドリル別 抜け面と刃先の比較 Damage comparison based on drill type used prior to threading

| 損傷状態 State of Damage | 穴あけ加工 Drilling | タップ加工 Tapping | |
|--|-------------------|------------------|---|
| | 抜け面 Hole Exit | 抜け面 Hole Exit | 刃先 (200穴タップ加工時) Wear on cutting edge after tapping 200 holes |
| ADF 使用 Drilled by ADF | | | 継続可能 Still Running |
| 他社汎用超硬ドリル使用 Drilled by Competitor's General Carbide Drill | | | 刃欠け大 Chipping |

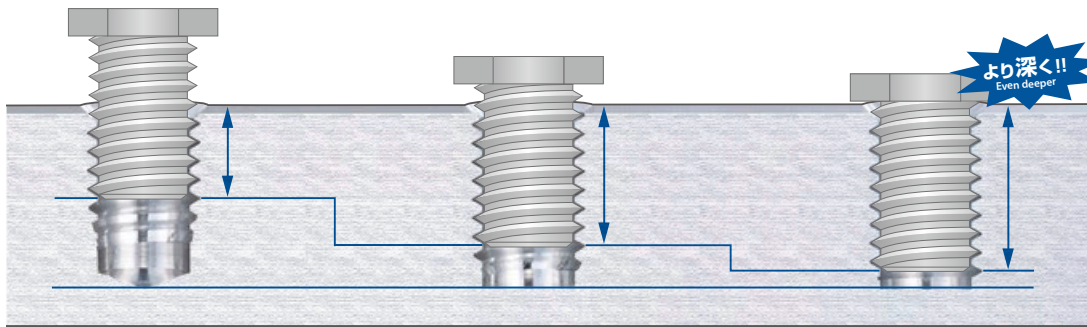
加工のポイント! 豆知識 Machining Tips

タップとドリルの組み合わせ Tap and drill combination

超硬ドリル + スパイラルタップ Carbide Drill + Spiral Fluted Tap
AD-2D φ5 + A-SFT M6×1 (2.5P)

超硬フラットドリル + スパイラルタップ Carbide Flat Drill + Spiral Fluted Tap
ADF-2D φ5 + A-SFT M6×1 (1P)

超硬フラットドリル + スレッドミル Carbide Flat Drill + Thread Mill
ADF-2D φ5 + AT-1 4.5×14 P1



組み合わせ次第でより深いねじ立てが可能に Greater tapping depth can be achieved based on combination.

■ アイコンの種類について Guide for Icons

1 材質 Tool Materials

CARBIDE 超硬合金
Tungsten Carbide

2 表面処理 Surface Treatment

EgiAs イージアスコーティング
EgiAs Coating

IchAda イチャダコーティング
IchAda Coating

3 直径の許容差 Tolerance for Drill Diameter

h8 ドリル直径の許容差を表示します
Tolerance for drill diameter

4 ねじれ角 Helix Angle

約20° ドリル溝のねじれ角を表示します
Helix angle of flute for drills

ABOUT 20°

5 シュリンク Shrink

SHRINK FIT シュリンクフィット(焼きばめ)システムにもお奨めします
Suitable for the shrink holder system

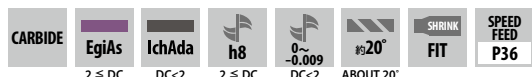
6 切削条件 Cutting Conditions

SPEED FEED 切削条件基準表掲載ページを表示します
Indicates page number for cutting conditions

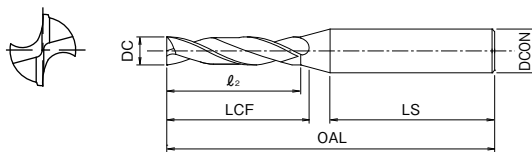
ADF-2D NEW SIZE



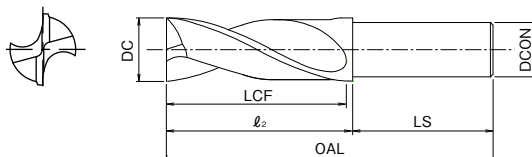
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| 3330020 | 0.2 | 0.6 | 40 | 3 | 34.1 | 0.7 | 1 | B ● | 7,070 |
| ※ | 0.21 | 0.7 | 40 | 3 | 34 | 0.8 | 1 | □ | — |
| ※ | 0.22 | 0.7 | 40 | 3 | 34 | 0.8 | 1 | □ | — |
| ※ | 0.23 | 0.7 | 40 | 3 | 34 | 0.8 | 1 | □ | — |
| ※ | 0.24 | 0.7 | 40 | 3 | 34 | 0.8 | 1 | □ | — |
| 3330025 | 0.25 | 0.8 | 40 | 3 | 34 | 0.9 | 1 | B ● | 7,480 |
| ※ | 0.26 | 0.8 | 40 | 3 | 34 | 0.9 | 1 | □ | — |
| ※ | 0.27 | 0.9 | 40 | 3 | 34 | 1 | 1 | □ | — |
| ※ | 0.28 | 0.9 | 40 | 3 | 33.9 | 1 | 1 | □ | — |
| ※ | 0.29 | 0.9 | 40 | 3 | 33.9 | 1 | 1 | □ | — |
| 3330030 | 0.3 | 0.9 | 40 | 3 | 34 | 1 | 1 | B ● | 7,070 |
| ※ | 0.31 | 1 | 40 | 3 | 33.9 | 1 | 1 | □ | — |
| ※ | 0.32 | 1 | 40 | 3 | 33.9 | 1.1 | 1 | □ | — |
| ※ | 0.33 | 1.1 | 40 | 3 | 33.8 | 1.2 | 1 | □ | — |
| ※ | 0.34 | 1.1 | 40 | 3 | 33.8 | 1.2 | 1 | □ | — |
| 3330035 | 0.35 | 1.1 | 40 | 3 | 33.9 | 1.2 | 1 | B ● | 7,480 |
| ※ | 0.36 | 1.2 | 40 | 3 | 33.7 | 1.4 | 1 | □ | — |
| ※ | 0.37 | 1.2 | 40 | 3 | 33.7 | 1.4 | 1 | □ | — |
| ※ | 0.38 | 1.2 | 40 | 3 | 33.7 | 1.4 | 1 | □ | — |
| ※ | 0.39 | 1.2 | 40 | 3 | 33.7 | 1.4 | 1 | □ | — |
| 3330040 | 0.4 | 1.2 | 40 | 3 | 33.9 | 1.3 | 1 | B ● | 7,070 |
| ※ | 0.41 | 1.3 | 40 | 3 | 33.7 | 1.5 | 1 | □ | — |
| ※ | 0.42 | 1.3 | 40 | 3 | 33.7 | 1.5 | 1 | □ | — |
| ※ | 0.43 | 1.4 | 40 | 3 | 33.6 | 1.6 | 1 | □ | — |
| ※ | 0.44 | 1.4 | 40 | 3 | 33.6 | 1.6 | 1 | □ | — |
| 3330045 | 0.45 | 1.4 | 40 | 3 | 33.7 | 1.5 | 1 | B ● | 7,480 |

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| ※ | 0.46 | 1.5 | 40 | 3 | 33.6 | 1.7 | 1 | □ | — |
| ※ | 0.47 | 1.5 | 40 | 3 | 33.6 | 1.7 | 1 | □ | — |
| ※ | 0.48 | 1.5 | 40 | 3 | 33.6 | 1.7 | 1 | □ | — |
| ※ | 0.49 | 1.6 | 40 | 3 | 33.5 | 1.8 | 1 | □ | — |
| 3330050 | 0.5 | 1.7 | 40 | 3 | 33.4 | 1.9 | 1 | B ● | 6,420 |
| ※ | 0.51 | 1.7 | 40 | 3 | 33.5 | 1.9 | 1 | □ | — |
| ※ | 0.52 | 1.8 | 40 | 3 | 33.4 | 2 | 1 | □ | — |
| ※ | 0.53 | 1.8 | 40 | 3 | 33.4 | 2 | 1 | □ | — |
| ※ | 0.54 | 1.8 | 40 | 3 | 33.4 | 2 | 1 | □ | — |
| 3330055 | 0.55 | 1.9 | 40 | 3 | 33.3 | 2.1 | 1 | B ● | 6,950 |
| ※ | 0.56 | 1.9 | 40 | 3 | 33.3 | 2.1 | 1 | □ | — |
| ※ | 0.57 | 1.9 | 40 | 3 | 33.4 | 2.1 | 1 | □ | — |
| ※ | 0.58 | 2 | 40 | 3 | 33.3 | 2.2 | 1 | □ | — |
| ※ | 0.59 | 2 | 40 | 3 | 33.3 | 2.2 | 1 | □ | — |
| 3330060 | 0.6 | 2 | 40 | 3 | 33.3 | 2.2 | 1 | B ● | 6,420 |
| ※ | 0.61 | 2.1 | 40 | 3 | 33.2 | 2.3 | 1 | □ | — |
| ※ | 0.62 | 2.1 | 40 | 3 | 33.3 | 2.3 | 1 | □ | — |
| ※ | 0.63 | 2.1 | 40 | 3 | 33.3 | 2.3 | 1 | □ | — |
| ※ | 0.64 | 2.2 | 40 | 3 | 33.2 | 2.4 | 1 | □ | — |
| 3330065 | 0.65 | 2.2 | 40 | 3 | 33.2 | 2.4 | 1 | B ● | 6,950 |
| ※ | 0.66 | 2.2 | 40 | 3 | 33.2 | 2.4 | 1 | □ | — |
| ※ | 0.67 | 2.3 | 40 | 3 | 33.2 | 2.5 | 1 | □ | — |
| ※ | 0.68 | 2.3 | 40 | 3 | 33.2 | 2.5 | 1 | □ | — |
| ※ | 0.69 | 2.3 | 40 | 3 | 33.2 | 2.5 | 1 | □ | — |
| 3330070 | 0.7 | 2.4 | 40 | 3 | 33.1 | 2.6 | 1 | B ● | 6,420 |
| 3330071 | 0.71 | 2.4 | 40 | 3 | 33.1 | 2.6 | 1 | B ● | 8,030 |

● = 標準在庫品 ● = Standard stock item

□ = 特定代理店在庫品

□ = Stocked by specific distributors. Contact us for price & availability.

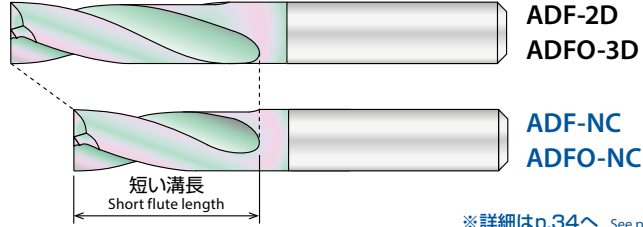
※ = NEW SIZES



工具選定のポイント!

Tool selection guideline

**加工スペースが狭い
小型自動旋盤に対応
ADF-NC・ADFO-NC**
The ADF-NC and ADFO-NC are compatible with small automatic lathes with limited processing space



※詳細はp.34へ See p.34 for details

FROM

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| 3330072 | 0.72 | 2.4 | 40 | 3 | 33.2 | 2.6 | 1 | B ● | 8,030 |
| ※ | 0.73 | 2.5 | 40 | 3 | 33.1 | 2.7 | 1 | — □ | — |
| 3330074 | 0.74 | 2.5 | 40 | 3 | 33.1 | 2.7 | 1 | B ● | 8,030 |
| 3330075 | 0.75 | 2.6 | 40 | 3 | 33 | 2.8 | 1 | B ● | 6,950 |
| ※ | 0.76 | 2.6 | 40 | 3 | 33 | 2.8 | 1 | — □ | — |
| ※ | 0.77 | 2.6 | 40 | 3 | 33 | 2.8 | 1 | — □ | — |
| ※ | 0.78 | 2.7 | 40 | 3 | 33 | 2.9 | 1 | — □ | — |
| ※ | 0.79 | 2.7 | 40 | 3 | 33 | 2.9 | 1 | — □ | — |
| 3330080 | 0.8 | 2.7 | 40 | 3 | 33 | 2.9 | 1 | B ● | 6,420 |
| 3330081 | 0.81 | 2.8 | 40 | 3 | 32.9 | 3 | 1 | B ● | 8,030 |
| ※ | 0.82 | 2.8 | 40 | 3 | 32.9 | 3 | 1 | — □ | — |
| ※ | 0.83 | 2.8 | 40 | 3 | 33 | 3 | 1 | — □ | — |
| ※ | 0.84 | 2.9 | 40 | 3 | 32.9 | 3.1 | 1 | — □ | — |
| 3330085 | 0.85 | 2.9 | 40 | 3 | 32.9 | 3.1 | 1 | B ● | 6,950 |
| ※ | 0.86 | 2.9 | 40 | 3 | 32.9 | 3.1 | 1 | — □ | — |
| ※ | 0.87 | 3 | 40 | 3 | 32.8 | 3.2 | 1 | — □ | — |
| ※ | 0.88 | 3 | 40 | 3 | 32.8 | 3.2 | 1 | — □ | — |
| 3330089 | 0.89 | 3 | 40 | 3 | 32.9 | 3.2 | 1 | B ● | 8,030 |
| 3330090 | 0.9 | 3.1 | 40 | 3 | 32.8 | 3.3 | 1 | B ● | 6,420 |
| 3330091 | 0.91 | 3.1 | 40 | 3 | 32.8 | 3.3 | 1 | B ● | 8,030 |
| 3330092 | 0.92 | 3.1 | 40 | 3 | 32.8 | 3.3 | 1 | B ● | 8,030 |
| ※ | 0.93 | 3.2 | 40 | 3 | 32.7 | 3.4 | 1 | — □ | — |
| ※ | 0.94 | 3.2 | 40 | 3 | 32.8 | 3.4 | 1 | — □ | — |
| 3330095 | 0.95 | 3.2 | 40 | 3 | 32.8 | 3.4 | 1 | B ● | 6,950 |
| ※ | 0.96 | 3.3 | 40 | 3 | 32.7 | 3.5 | 1 | — □ | — |
| ※ | 0.97 | 3.3 | 40 | 3 | 32.7 | 3.5 | 1 | — □ | — |

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| ※ | 0.98 | 3.3 | 40 | 3 | 32.7 | 3.5 | 1 | — □ | — |
| ※ | 0.99 | 3.4 | 40 | 3 | 32.6 | 3.6 | 1 | — □ | — |
| 3330100 | 1 | 4 | 45 | 3 | 37 | 4.3 | 1 | B ● | 6,000 |
| ※ | 1.01 | 4 | 45 | 3 | 37 | 4.3 | 1 | — □ | — |
| ※ | 1.02 | 4.1 | 45 | 3 | 36.9 | 4.4 | 1 | — □ | — |
| ※ | 1.03 | 4.1 | 45 | 3 | 36.9 | 4.4 | 1 | — □ | — |
| ※ | 1.04 | 4.2 | 45 | 3 | 36.8 | 4.5 | 1 | — □ | — |
| ※ | 1.05 | 4.2 | 45 | 3 | 36.9 | 4.5 | 1 | — □ | — |
| ※ | 1.06 | 4.2 | 45 | 3 | 36.9 | 4.5 | 1 | — □ | — |
| ※ | 1.07 | 4.3 | 45 | 3 | 36.8 | 4.6 | 1 | — □ | — |
| ※ | 1.08 | 4.3 | 45 | 3 | 36.8 | 4.6 | 1 | — □ | — |
| 3330109 | 1.09 | 4.4 | 45 | 3 | 36.7 | 4.7 | 1 | B ● | 7,490 |
| 3330110 | 1.1 | 4.4 | 45 | 3 | 36.8 | 4.7 | 1 | B ● | 6,000 |
| 3330111 | 1.11 | 4.4 | 45 | 3 | 36.8 | 4.7 | 1 | B ● | 7,490 |
| 3330112 | 1.12 | 4.5 | 45 | 3 | 36.7 | 4.8 | 1 | B ● | 7,490 |
| ※ | 1.13 | 4.5 | 45 | 3 | 36.7 | 4.8 | 1 | — □ | — |
| ※ | 1.14 | 4.6 | 45 | 3 | 36.6 | 4.9 | 1 | — □ | — |
| ※ | 1.15 | 4.6 | 45 | 3 | 36.7 | 4.9 | 1 | — □ | — |
| ※ | 1.16 | 4.6 | 45 | 3 | 36.7 | 4.9 | 1 | — □ | — |
| ※ | 1.17 | 4.7 | 45 | 3 | 36.6 | 5 | 1 | — □ | — |
| ※ | 1.18 | 4.7 | 45 | 3 | 36.6 | 5 | 1 | — □ | — |
| ※ | 1.19 | 4.8 | 45 | 3 | 36.5 | 5.1 | 1 | — □ | — |
| 3330120 | 1.2 | 4.8 | 45 | 3 | 36.5 | 5.1 | 1 | B ● | 6,000 |
| ※ | 1.21 | 4.8 | 45 | 3 | 36.6 | 5.1 | 1 | — □ | — |
| ※ | 1.22 | 4.9 | 45 | 3 | 36.5 | 5.2 | 1 | — □ | — |
| ※ | 1.23 | 4.9 | 45 | 3 | 36.5 | 5.2 | 1 | — □ | — |

● = 標準在庫品 ● = Standard stock item
 □ = 特定代理店在庫品
 □ = Stocked by specific distributors. Contact us for price & availability.
 ※ = NEW SIZES

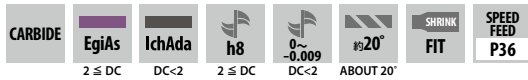


NEXT

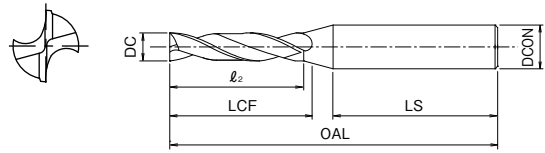
ADF-2D NEW SIZE



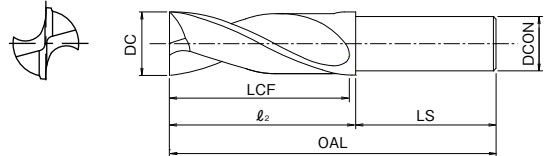
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| ※ | 1.24 | 5 | 45 | 3 | 36.4 | 5.3 | 1 | □ | — |
| 3330125 | 1.25 | 5 | 45 | 3 | 36.4 | 5.3 | 1 | ● | 6,870 |
| 3330126 | 1.26 | 5 | 45 | 3 | 36.5 | 5.3 | 1 | ● | 7,490 |
| 3330127 | 1.27 | 5.1 | 45 | 3 | 36.4 | 5.4 | 1 | ● | 7,490 |
| 3330128 | 1.28 | 5.1 | 45 | 3 | 36.4 | 5.4 | 1 | ● | 7,490 |
| 3330129 | 1.29 | 5.2 | 45 | 3 | 36.3 | 5.5 | 1 | ● | 7,490 |
| 3330130 | 1.3 | 5.2 | 45 | 3 | 36.3 | 5.5 | 1 | ● | 6,000 |
| ※ | 1.31 | 5.2 | 45 | 3 | 36.3 | 5.5 | 1 | □ | — |
| ※ | 1.32 | 5.3 | 45 | 3 | 36.3 | 5.6 | 1 | □ | — |
| ※ | 1.33 | 5.3 | 45 | 3 | 36.3 | 5.6 | 1 | □ | — |
| ※ | 1.34 | 5.4 | 45 | 3 | 36.2 | 5.7 | 1 | □ | — |
| 3330135 | 1.35 | 5.4 | 45 | 3 | 36.2 | 5.7 | 1 | B ● | 6,870 |
| ※ | 1.36 | 5.4 | 45 | 3 | 36.2 | 5.7 | 1 | □ | — |
| ※ | 1.37 | 5.5 | 45 | 3 | 36.2 | 5.8 | 1 | □ | — |
| ※ | 1.38 | 5.5 | 45 | 3 | 36.2 | 5.8 | 1 | □ | — |
| ※ | 1.39 | 5.6 | 45 | 3 | 36.1 | 5.9 | 1 | □ | — |
| 3330140 | 1.4 | 5.6 | 45 | 3 | 36.1 | 5.9 | 1 | B ● | 6,000 |
| ※ | 1.41 | 5.6 | 45 | 3 | 36.1 | 5.9 | 1 | □ | — |
| ※ | 1.42 | 5.7 | 45 | 3 | 36.1 | 6 | 1 | □ | — |
| ※ | 1.43 | 5.7 | 45 | 3 | 36.1 | 6 | 1 | □ | — |
| 3330144 | 1.44 | 5.8 | 45 | 3 | 36 | 6.1 | 1 | ● | 7,490 |
| 3330145 | 1.45 | 5.8 | 45 | 3 | 36 | 6.1 | 1 | ● | 6,870 |
| 3330146 | 1.46 | 5.8 | 45 | 3 | 36 | 6.1 | 1 | B ● | 7,490 |
| 3330147 | 1.47 | 5.9 | 45 | 3 | 35.9 | 6.2 | 1 | ● | 7,490 |
| 3330148 | 1.48 | 5.9 | 45 | 3 | 36 | 6.2 | 1 | ● | 7,490 |
| ※ | 1.49 | 6 | 45 | 3 | 35.9 | 6.3 | 1 | □ | — |

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| 3330150 | 1.5 | 6 | 45 | 3 | 35.9 | 6.3 | 1 | B ● | 6,000 |
| ※ | 1.51 | 6 | 45 | 3 | 35.9 | 6.3 | 1 | □ | — |
| ※ | 1.52 | 6.1 | 45 | 3 | 35.8 | 6.4 | 1 | □ | — |
| 3330153 | 1.53 | 6.1 | 45 | 3 | 35.9 | 6.4 | 1 | ● | 7,490 |
| 3330154 | 1.54 | 6.2 | 45 | 3 | 35.8 | 6.5 | 1 | ● | 7,490 |
| 3330155 | 1.55 | 6.2 | 45 | 3 | 35.8 | 6.5 | 1 | ● | 6,870 |
| 3330156 | 1.56 | 6.2 | 45 | 3 | 35.8 | 6.5 | 1 | B ● | 7,490 |
| 3330157 | 1.57 | 6.3 | 45 | 3 | 35.7 | 6.6 | 1 | ● | 7,490 |
| 3330158 | 1.58 | 6.3 | 45 | 3 | 35.8 | 6.6 | 1 | ● | 7,490 |
| ※ | 1.59 | 6.4 | 45 | 3 | 35.7 | 6.7 | 1 | □ | — |
| 3330160 | 1.6 | 6.4 | 45 | 3 | 35.7 | 6.7 | 1 | B ● | 6,000 |
| ※ | 1.61 | 6.4 | 45 | 3 | 35.7 | 6.7 | 1 | □ | — |
| ※ | 1.62 | 6.5 | 45 | 3 | 35.6 | 6.8 | 1 | □ | — |
| ※ | 1.63 | 6.5 | 45 | 3 | 35.6 | 6.8 | 1 | □ | — |
| ※ | 1.64 | 6.6 | 45 | 3 | 35.6 | 6.9 | 1 | □ | — |
| ※ | 1.65 | 6.6 | 45 | 3 | 35.6 | 6.9 | 1 | □ | — |
| ※ | 1.66 | 6.6 | 45 | 3 | 35.6 | 6.9 | 1 | □ | — |
| ※ | 1.67 | 6.7 | 45 | 3 | 35.5 | 7 | 1 | □ | — |
| ※ | 1.68 | 6.7 | 45 | 3 | 35.5 | 7 | 1 | □ | — |
| ※ | 1.69 | 6.8 | 45 | 3 | 35.5 | 7.1 | 1 | □ | — |
| 3330170 | 1.7 | 6.8 | 45 | 3 | 35.5 | 7.1 | 1 | B ● | 6,000 |
| ※ | 1.71 | 6.8 | 45 | 3 | 35.5 | 7.1 | 1 | □ | — |
| ※ | 1.72 | 6.9 | 45 | 3 | 35.4 | 7.2 | 1 | □ | — |
| ※ | 1.73 | 6.9 | 45 | 3 | 35.4 | 7.2 | 1 | □ | — |
| ※ | 1.74 | 7 | 45 | 3 | 35.3 | 7.3 | 1 | □ | — |
| 3330175 | 1.75 | 7 | 45 | 3 | 35.4 | 7.3 | 1 | B ● | 6,870 |

・アイコンの説明はp.8をご覧ください。

・See p.8 for explanation of icons.

● = 標準在庫品 ● = Standard stock item

□ = 特定代理店在庫品

□ = Stocked by specific distributors. Contact us for price & availability.

※ = NEW SIZES



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|--------------------------|---------------|
| ※ | 1.76 | 7 | 45 | 3 | 35.4 | 7.3 | 1 | <input type="checkbox"/> | — |
| ※ | 1.77 | 7.1 | 45 | 3 | 35.3 | 7.4 | 1 | <input type="checkbox"/> | — |
| ※ | 1.78 | 7.1 | 45 | 3 | 35.3 | 7.4 | 1 | <input type="checkbox"/> | — |
| ※ | 1.79 | 7.2 | 45 | 3 | 35.2 | 7.5 | 1 | <input type="checkbox"/> | — |
| 3330180 | 1.8 | 7.2 | 45 | 3 | 35.3 | 7.5 | 1 | B ● | 6,000 |
| ※ | 1.81 | 7.2 | 45 | 3 | 35.3 | 7.5 | 1 | <input type="checkbox"/> | — |
| 3330182 | 1.82 | 7.3 | 45 | 3 | 35.2 | 7.6 | 1 | ● | 7,490 |
| 3330183 | 1.83 | 7.3 | 45 | 3 | 35.2 | 7.6 | 1 | ● | 7,490 |
| 3330184 | 1.84 | 7.4 | 45 | 3 | 35.1 | 7.7 | 1 | B ● | 7,490 |
| 3330185 | 1.85 | 7.4 | 45 | 3 | 35.2 | 7.7 | 1 | ● | 6,870 |
| 3330186 | 1.86 | 7.4 | 45 | 3 | 35.2 | 7.7 | 1 | ● | 7,490 |
| ※ | 1.87 | 7.5 | 45 | 3 | 35.1 | 7.8 | 1 | <input type="checkbox"/> | — |
| ※ | 1.88 | 7.5 | 45 | 3 | 35.1 | 7.8 | 1 | <input type="checkbox"/> | — |
| ※ | 1.89 | 7.6 | 45 | 3 | 35 | 7.9 | 1 | <input type="checkbox"/> | — |
| 3330190 | 1.9 | 7.6 | 45 | 3 | 35.1 | 7.9 | 1 | B ● | 6,000 |
| ※ | 1.91 | 7.6 | 45 | 3 | 35.1 | 7.9 | 1 | <input type="checkbox"/> | — |
| ※ | 1.92 | 7.7 | 45 | 3 | 35 | 8 | 1 | <input type="checkbox"/> | — |
| ※ | 1.93 | 7.7 | 45 | 3 | 35 | 8 | 1 | <input type="checkbox"/> | — |
| ※ | 1.94 | 7.8 | 45 | 3 | 34.9 | 8.1 | 1 | <input type="checkbox"/> | — |
| 3330195 | 1.95 | 7.8 | 45 | 3 | 34.9 | 8.1 | 1 | B ● | 6,870 |
| ※ | 1.96 | 7.8 | 45 | 3 | 35 | 8.1 | 1 | <input type="checkbox"/> | — |
| ※ | 1.97 | 7.9 | 45 | 3 | 34.9 | 8.2 | 1 | <input type="checkbox"/> | — |
| ※ | 1.98 | 7.9 | 45 | 3 | 34.9 | 8.2 | 1 | <input type="checkbox"/> | — |
| ※ | 1.99 | 8 | 45 | 3 | 34.8 | 8.3 | 1 | <input type="checkbox"/> | — |
| 3330200 | 2 | 10 | 50 | 4 | 36 | 10.3 | 1 | B ● | 6,000 |
| | 2.01 | 10 | 50 | 4 | 36 | 10.3 | 1 | <input type="checkbox"/> | — |
| | 2.02 | 10 | 50 | 4 | 36 | 10.3 | 1 | <input type="checkbox"/> | — |
| | 2.03 | 10 | 50 | 4 | 36 | 10.3 | 1 | <input type="checkbox"/> | — |
| | 2.04 | 10 | 50 | 4 | 36 | 10.3 | 1 | <input type="checkbox"/> | — |
| | 2.05 | 10 | 50 | 4 | 36 | 10.4 | 1 | <input type="checkbox"/> | — |
| | 2.06 | 10 | 50 | 4 | 36 | 10.4 | 1 | <input type="checkbox"/> | — |
| | 2.07 | 10 | 50 | 4 | 36 | 10.4 | 1 | <input type="checkbox"/> | — |
| | 2.08 | 10 | 50 | 4 | 36 | 10.4 | 1 | <input type="checkbox"/> | — |
| | 2.09 | 10 | 50 | 4 | 36 | 10.4 | 1 | <input type="checkbox"/> | — |
| 3330210 | 2.1 | 10 | 50 | 4 | 36 | 10.5 | 1 | B ● | 6,000 |

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|--------------------------|---------------|
| | 2.11 | 11 | 50 | 4 | 36 | 10.5 | 1 | <input type="checkbox"/> | — |
| | 2.12 | 11 | 50 | 4 | 36 | 10.5 | 1 | <input type="checkbox"/> | — |
| | 2.13 | 11 | 50 | 4 | 36 | 10.5 | 1 | <input type="checkbox"/> | — |
| | 2.14 | 11 | 50 | 4 | 36 | 10.5 | 1 | <input type="checkbox"/> | — |
| | 2.15 | 11 | 50 | 4 | 36 | 10.5 | 1 | <input type="checkbox"/> | — |
| | 2.16 | 11 | 50 | 4 | 36 | 10.6 | 1 | <input type="checkbox"/> | — |
| | 2.17 | 11 | 50 | 4 | 36 | 10.6 | 1 | <input type="checkbox"/> | — |
| | 2.18 | 11 | 50 | 4 | 36 | 10.6 | 1 | <input type="checkbox"/> | — |
| | 2.19 | 11 | 50 | 4 | 36 | 10.6 | 1 | <input type="checkbox"/> | — |
| 3330220 | 2.2 | 11 | 50 | 4 | 36 | 10.6 | 1 | B ● | 6,000 |
| | 2.21 | 11 | 50 | 4 | 36 | 10.7 | 1 | <input type="checkbox"/> | — |
| | 2.22 | 11 | 50 | 4 | 36 | 10.7 | 1 | <input type="checkbox"/> | — |
| | 2.23 | 11 | 50 | 4 | 36 | 10.7 | 1 | <input type="checkbox"/> | — |
| | 2.24 | 11 | 50 | 4 | 36 | 10.7 | 1 | <input type="checkbox"/> | — |
| | 2.25 | 11 | 50 | 4 | 36 | 10.7 | 1 | <input type="checkbox"/> | — |
| | 2.26 | 11 | 50 | 4 | 36 | 10.8 | 1 | <input type="checkbox"/> | — |
| | 2.27 | 11 | 50 | 4 | 36 | 10.8 | 1 | <input type="checkbox"/> | — |
| | 2.28 | 11 | 50 | 4 | 36 | 10.8 | 1 | <input type="checkbox"/> | — |
| | 2.29 | 11 | 50 | 4 | 36 | 10.8 | 1 | <input type="checkbox"/> | — |
| 3330230 | 2.3 | 11 | 50 | 4 | 36 | 10.8 | 1 | B ● | 6,000 |
| | 2.31 | 11 | 50 | 4 | 36 | 10.8 | 1 | <input type="checkbox"/> | — |
| 3330232 | 2.32 | 11 | 50 | 4 | 36 | 10.9 | 1 | B ● | 6,000 |
| | 2.33 | 11 | 50 | 4 | 36 | 10.9 | 1 | <input type="checkbox"/> | — |
| | 2.34 | 11 | 50 | 4 | 36 | 10.9 | 1 | <input type="checkbox"/> | — |
| | 2.35 | 12 | 50 | 4 | 36 | 10.9 | 1 | <input type="checkbox"/> | — |
| | 2.36 | 12 | 50 | 4 | 36 | 10.9 | 1 | <input type="checkbox"/> | — |
| | 2.37 | 12 | 50 | 4 | 36 | 11 | 1 | <input type="checkbox"/> | — |
| | 2.38 | 12 | 50 | 4 | 36 | 11 | 1 | <input type="checkbox"/> | — |
| | 2.39 | 12 | 50 | 4 | 36 | 11 | 1 | <input type="checkbox"/> | — |
| 3330240 | 2.4 | 12 | 50 | 4 | 36 | 11 | 1 | B ● | 6,000 |
| | 2.41 | 12 | 50 | 4 | 36 | 11 | 1 | <input type="checkbox"/> | — |
| 3330242 | 2.42 | 12 | 50 | 4 | 36 | 11.1 | 1 | B ● | 6,000 |
| | 2.43 | 12 | 50 | 4 | 36 | 11.1 | 1 | <input type="checkbox"/> | — |
| | 2.44 | 12 | 50 | 4 | 36 | 11.1 | 1 | <input type="checkbox"/> | — |
| | 2.45 | 12 | 50 | 4 | 36 | 11.1 | 1 | <input type="checkbox"/> | — |

● = 標準在庫品 ● = Standard stock item
 = 特定代理店在庫品
 = Stocked by specific distributors. Contact us for price & availability.
 ※ = NEW SIZES

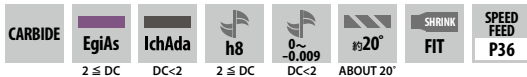


NEXT

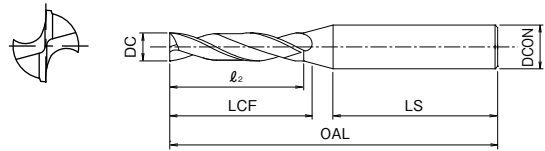
ADF-2D



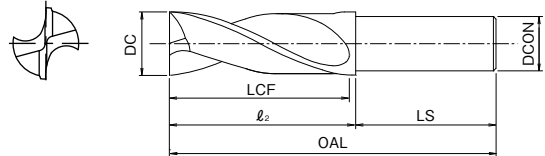
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------|------------|----------------------------|---------------|
| | 2.46 | 12 | 50 | 4 | 36 | 11.1 | 1 | <input type="checkbox"/> | — |
| | 2.47 | 12 | 50 | 4 | 36 | 11.1 | 1 | <input type="checkbox"/> | — |
| | 2.48 | 12 | 50 | 4 | 36 | 11.2 | 1 | <input type="checkbox"/> | — |
| | 2.49 | 12 | 50 | 4 | 36 | 11.2 | 1 | <input type="checkbox"/> | — |
| 3330250 | 2.5 | 12 | 50 | 4 | 36 | 11.2 | 1 | B ● | 6,000 |
| | 2.51 | 12 | 50 | 4 | 36 | 11.2 | 1 | <input type="checkbox"/> | — |
| | 2.52 | 12 | 50 | 4 | 36 | 11.2 | 1 | — <input type="checkbox"/> | — |
| | 2.53 | 12 | 50 | 4 | 36 | 11.3 | 1 | <input type="checkbox"/> | — |
| 3330254 | 2.54 | 12 | 50 | 4 | 36 | 11.3 | 1 | B ● | 6,000 |
| | 2.55 | 13 | 50 | 4 | 36 | 11.3 | 1 | <input type="checkbox"/> | — |
| | 2.56 | 13 | 50 | 4 | 36 | 11.3 | 1 | — <input type="checkbox"/> | — |
| | 2.57 | 13 | 50 | 4 | 36 | 11.3 | 1 | <input type="checkbox"/> | — |
| 3330258 | 2.58 | 13 | 50 | 4 | 36 | 11.4 | 1 | B ● | 6,000 |
| | 2.59 | 13 | 50 | 4 | 36 | 11.4 | 1 | — <input type="checkbox"/> | — |
| 3330260 | 2.6 | 13 | 50 | 4 | 36 | 11.4 | 1 | B ● | 6,000 |
| | 2.61 | 13 | 50 | 4 | 36 | 11.4 | 1 | <input type="checkbox"/> | — |
| | 2.62 | 13 | 50 | 4 | 36 | 11.4 | 1 | <input type="checkbox"/> | — |
| | 2.63 | 13 | 50 | 4 | 36 | 11.4 | 1 | <input type="checkbox"/> | — |
| | 2.64 | 13 | 50 | 4 | 36 | 11.5 | 1 | <input type="checkbox"/> | — |
| | 2.65 | 13 | 50 | 4 | 36 | 11.5 | 1 | — <input type="checkbox"/> | — |
| | 2.66 | 13 | 50 | 4 | 36 | 11.5 | 1 | <input type="checkbox"/> | — |
| | 2.67 | 13 | 50 | 4 | 36 | 11.5 | 1 | <input type="checkbox"/> | — |
| | 2.68 | 13 | 50 | 4 | 36 | 11.5 | 1 | <input type="checkbox"/> | — |
| | 2.69 | 13 | 50 | 4 | 36 | 11.6 | 1 | <input type="checkbox"/> | — |
| 3330270 | 2.7 | 13 | 50 | 4 | 36 | 11.6 | 1 | B ● | 6,000 |
| | 2.71 | 14 | 50 | 4 | 36 | 11.6 | 1 | — <input type="checkbox"/> | — |

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------|------------|----------------------------|---------------|
| | 2.72 | 14 | 50 | 4 | 36 | 11.6 | 1 | <input type="checkbox"/> | — |
| | 2.73 | 14 | 50 | 4 | 36 | 11.6 | 1 | <input type="checkbox"/> | — |
| | 2.74 | 14 | 50 | 4 | 36 | 11.6 | 1 | — <input type="checkbox"/> | — |
| | 2.75 | 14 | 50 | 4 | 36 | 11.7 | 1 | <input type="checkbox"/> | — |
| 3330276 | 2.76 | 14 | 50 | 4 | 36 | 11.7 | 1 | B ● | 6,000 |
| | 2.77 | 14 | 50 | 4 | 36 | 11.7 | 1 | — <input type="checkbox"/> | — |
| 3330278 | 2.78 | 14 | 50 | 4 | 36 | 11.7 | 1 | B ● | 6,000 |
| | 2.79 | 14 | 50 | 4 | 36 | 11.7 | 1 | — <input type="checkbox"/> | — |
| 3330280 | 2.8 | 14 | 50 | 4 | 36 | 11.8 | 1 | B ● | 6,000 |
| | 2.81 | 14 | 50 | 4 | 36 | 11.8 | 1 | <input type="checkbox"/> | — |
| | 2.82 | 14 | 50 | 4 | 36 | 11.8 | 1 | <input type="checkbox"/> | — |
| | 2.83 | 14 | 50 | 4 | 36 | 11.8 | 1 | <input type="checkbox"/> | — |
| | 2.84 | 14 | 50 | 4 | 36 | 11.8 | 1 | <input type="checkbox"/> | — |
| | 2.85 | 14 | 50 | 4 | 36 | 11.9 | 1 | — <input type="checkbox"/> | — |
| | 2.86 | 14 | 50 | 4 | 36 | 11.9 | 1 | <input type="checkbox"/> | — |
| | 2.87 | 14 | 50 | 4 | 36 | 11.9 | 1 | <input type="checkbox"/> | — |
| | 2.88 | 14 | 50 | 4 | 36 | 11.9 | 1 | <input type="checkbox"/> | — |
| | 2.89 | 14 | 50 | 4 | 36 | 11.9 | 1 | <input type="checkbox"/> | — |
| 3330290 | 2.9 | 14 | 50 | 4 | 36 | 11.9 | 1 | B ● | 6,000 |
| | 2.91 | 15 | 55 | 6 | 38 | 11.2 | 1 | <input type="checkbox"/> | — |
| | 2.92 | 15 | 55 | 6 | 38 | 11.3 | 1 | <input type="checkbox"/> | — |
| | 2.93 | 15 | 55 | 6 | 38 | 11.3 | 1 | <input type="checkbox"/> | — |
| | 2.94 | 15 | 55 | 6 | 38 | 11.3 | 1 | — <input type="checkbox"/> | — |
| | 2.95 | 15 | 55 | 6 | 38 | 11.3 | 1 | <input type="checkbox"/> | — |
| | 2.96 | 15 | 55 | 6 | 38 | 11.3 | 1 | <input type="checkbox"/> | — |
| | 2.97 | 15 | 55 | 6 | 38 | 11.3 | 1 | <input type="checkbox"/> | — |

● = 標準在庫品 ● = Standard stock item
□ = 特定代理店在庫品

□ = Stocked by specific distributors. Contact us for price & availability.

NEXT



FROM

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|--------------------------|---------------|
| | 2.98 | 15 | 55 | 6 | 38 | 11.4 | 1 | <input type="checkbox"/> | — |
| | 2.99 | 15 | 55 | 6 | 38 | 11.4 | 1 | <input type="checkbox"/> | — |
| 3330300 | 3 | 15 | 55 | 6 | 38 | 11.4 | 1 | B ● | 6,000 |
| | 3.01 | 15 | 55 | 6 | 38 | 11.4 | 1 | <input type="checkbox"/> | — |
| | 3.02 | 15 | 55 | 6 | 38 | 11.4 | 1 | <input type="checkbox"/> | — |
| 3330303 | 3.03 | 15 | 55 | 6 | 38 | 11.5 | 1 | B ● | 6,450 |
| | 3.04 | 15 | 55 | 6 | 38 | 11.5 | 1 | <input type="checkbox"/> | — |
| | 3.05 | 15 | 55 | 6 | 38 | 11.5 | 1 | <input type="checkbox"/> | — |
| | 3.06 | 15 | 55 | 6 | 38 | 11.5 | 1 | <input type="checkbox"/> | — |
| | 3.07 | 15 | 55 | 6 | 38 | 11.5 | 1 | <input type="checkbox"/> | — |
| | 3.08 | 15 | 55 | 6 | 38 | 11.6 | 1 | <input type="checkbox"/> | — |
| | 3.09 | 15 | 55 | 6 | 38 | 11.6 | 1 | <input type="checkbox"/> | — |
| 3330310 | 3.1 | 15 | 55 | 6 | 38 | 11.6 | 1 | B ● | 6,450 |
| | 3.11 | 15 | 55 | 6 | 38 | 11.6 | 1 | <input type="checkbox"/> | — |
| | 3.12 | 15 | 55 | 6 | 38 | 11.6 | 1 | <input type="checkbox"/> | — |
| | 3.13 | 15 | 55 | 6 | 38 | 11.6 | 1 | <input type="checkbox"/> | — |
| | 3.14 | 15 | 55 | 6 | 38 | 11.7 | 1 | <input type="checkbox"/> | — |
| 3330315 | 3.15 | 15 | 55 | 6 | 38 | 11.7 | 1 | B ● | 6,450 |
| | 3.16 | 15 | 55 | 6 | 38 | 11.7 | 1 | <input type="checkbox"/> | — |
| | 3.17 | 15 | 55 | 6 | 38 | 11.7 | 1 | <input type="checkbox"/> | — |
| | 3.18 | 15 | 55 | 6 | 38 | 11.7 | 1 | <input type="checkbox"/> | — |
| | 3.19 | 15 | 55 | 6 | 38 | 11.8 | 1 | <input type="checkbox"/> | — |
| 3330320 | 3.2 | 15 | 55 | 6 | 38 | 11.8 | 1 | B ● | 6,450 |
| | 3.21 | 15 | 55 | 6 | 38 | 11.8 | 1 | <input type="checkbox"/> | — |
| | 3.22 | 15 | 55 | 6 | 38 | 11.8 | 1 | <input type="checkbox"/> | — |
| | 3.23 | 15 | 55 | 6 | 38 | 11.8 | 1 | <input type="checkbox"/> | — |
| | 3.24 | 15 | 55 | 6 | 38 | 11.8 | 1 | <input type="checkbox"/> | — |
| | 3.25 | 15 | 55 | 6 | 38 | 11.9 | 1 | <input type="checkbox"/> | — |
| | 3.26 | 15 | 55 | 6 | 38 | 11.9 | 1 | <input type="checkbox"/> | — |
| | 3.27 | 15 | 55 | 6 | 38 | 11.9 | 1 | <input type="checkbox"/> | — |
| | 3.28 | 15 | 55 | 6 | 38 | 11.9 | 1 | <input type="checkbox"/> | — |
| | 3.29 | 15 | 55 | 6 | 38 | 11.9 | 1 | <input type="checkbox"/> | — |
| 3330330 | 3.3 | 15 | 55 | 6 | 38 | 12 | 1 | B ● | 6,450 |
| | 3.31 | 16 | 55 | 6 | 38 | 12 | 1 | <input type="checkbox"/> | — |
| | 3.32 | 16 | 55 | 6 | 38 | 12 | 1 | <input type="checkbox"/> | — |

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|--------------------------|---------------|
| | 3.33 | 16 | 55 | 6 | 38 | 12 | 1 | <input type="checkbox"/> | — |
| | 3.34 | 16 | 55 | 6 | 38 | 12 | 1 | <input type="checkbox"/> | — |
| | 3.35 | 16 | 55 | 6 | 38 | 12.1 | 1 | <input type="checkbox"/> | — |
| | 3.36 | 16 | 55 | 6 | 38 | 12.1 | 1 | <input type="checkbox"/> | — |
| | 3.37 | 16 | 55 | 6 | 38 | 12.1 | 1 | <input type="checkbox"/> | — |
| | 3.38 | 16 | 55 | 6 | 38 | 12.1 | 1 | <input type="checkbox"/> | — |
| | 3.39 | 16 | 55 | 6 | 38 | 12.1 | 1 | <input type="checkbox"/> | — |
| 3330340 | 3.4 | 16 | 55 | 6 | 38 | 12.1 | 1 | B ● | 6,450 |
| | 3.41 | 16 | 55 | 6 | 38 | 12.2 | 1 | <input type="checkbox"/> | — |
| | 3.42 | 16 | 55 | 6 | 38 | 12.2 | 1 | <input type="checkbox"/> | — |
| | 3.43 | 16 | 55 | 6 | 38 | 12.2 | 1 | <input type="checkbox"/> | — |
| | 3.44 | 16 | 55 | 6 | 38 | 12.2 | 1 | <input type="checkbox"/> | — |
| | 3.45 | 16 | 55 | 6 | 38 | 12.2 | 1 | <input type="checkbox"/> | — |
| | 3.46 | 16 | 55 | 6 | 38 | 12.3 | 1 | <input type="checkbox"/> | — |
| | 3.47 | 16 | 55 | 6 | 38 | 12.3 | 1 | <input type="checkbox"/> | — |
| | 3.48 | 16 | 55 | 6 | 38 | 12.3 | 1 | <input type="checkbox"/> | — |
| | 3.49 | 16 | 55 | 6 | 38 | 12.3 | 1 | <input type="checkbox"/> | — |
| 3330350 | 3.5 | 16 | 55 | 6 | 38 | 12.3 | 1 | B ● | 6,450 |
| | 3.51 | 16 | 55 | 6 | 38 | 12.4 | 1 | <input type="checkbox"/> | — |
| | 3.52 | 16 | 55 | 6 | 38 | 12.4 | 1 | <input type="checkbox"/> | — |
| 3330353 | 3.53 | 16 | 55 | 6 | 38 | 12.4 | 1 | B ● | 6,790 |
| | 3.54 | 16 | 55 | 6 | 38 | 12.4 | 1 | <input type="checkbox"/> | — |
| | 3.55 | 16 | 55 | 6 | 38 | 12.4 | 1 | <input type="checkbox"/> | — |
| | 3.56 | 16 | 55 | 6 | 38 | 12.4 | 1 | <input type="checkbox"/> | — |
| | 3.57 | 16 | 55 | 6 | 38 | 12.5 | 1 | <input type="checkbox"/> | — |
| | 3.58 | 16 | 55 | 6 | 38 | 12.5 | 1 | <input type="checkbox"/> | — |
| | 3.59 | 16 | 55 | 6 | 38 | 12.5 | 1 | <input type="checkbox"/> | — |
| 3330360 | 3.6 | 16 | 55 | 6 | 38 | 12.5 | 1 | B ● | 6,790 |
| | 3.61 | 16 | 55 | 6 | 38 | 12.5 | 1 | <input type="checkbox"/> | — |
| | 3.62 | 16 | 55 | 6 | 38 | 12.6 | 1 | <input type="checkbox"/> | — |
| | 3.63 | 16 | 55 | 6 | 38 | 12.6 | 1 | <input type="checkbox"/> | — |
| | 3.64 | 16 | 55 | 6 | 38 | 12.6 | 1 | <input type="checkbox"/> | — |
| | 3.65 | 16 | 55 | 6 | 38 | 12.6 | 1 | <input type="checkbox"/> | — |
| 3330366 | 3.66 | 16 | 55 | 6 | 38 | 12.6 | 1 | B ● | 6,790 |
| | 3.67 | 16 | 55 | 6 | 38 | 12.7 | 1 | <input type="checkbox"/> | — |

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 = 特定代理店在庫品
 = Stocked by specific distributors. Contact us for price & availability.

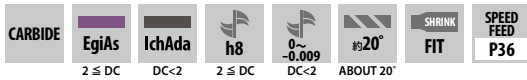
NEXT



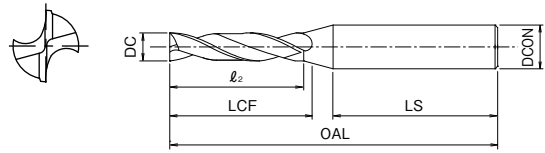
ADF-2D



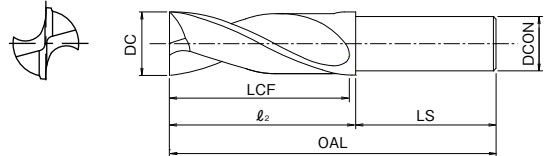
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------|------------|-------------|---------------|
| 3330368 | 3.68 | 16 | 55 | 6 | 38 | 12.7 | 1 | B ● | 6,790 |
| | 3.69 | 16 | 55 | 6 | 38 | 12.7 | 1 | □ | — |
| 3330370 | 3.7 | 16 | 55 | 6 | 38 | 12.7 | 1 | B ● | 6,790 |
| | 3.71 | 19 | 60 | 6 | 38 | 17.7 | 1 | □ | — |
| | 3.72 | 19 | 60 | 6 | 38 | 17.7 | 1 | □ | — |
| | 3.73 | 19 | 60 | 6 | 38 | 17.8 | 1 | □ | — |
| | 3.74 | 19 | 60 | 6 | 38 | 17.8 | 1 | □ | — |
| | 3.75 | 19 | 60 | 6 | 38 | 17.8 | 1 | □ | — |
| | 3.76 | 19 | 60 | 6 | 38 | 17.8 | 1 | □ | — |
| | 3.77 | 19 | 60 | 6 | 38 | 17.8 | 1 | □ | — |
| | 3.78 | 19 | 60 | 6 | 38 | 17.9 | 1 | □ | — |
| | 3.79 | 19 | 60 | 6 | 38 | 17.9 | 1 | □ | — |
| 3330380 | 3.8 | 19 | 60 | 6 | 38 | 17.9 | 1 | B ● | 6,790 |
| | 3.81 | 19 | 60 | 6 | 38 | 17.9 | 1 | □ | — |
| | 3.82 | 19 | 60 | 6 | 38 | 17.9 | 1 | □ | — |
| | 3.83 | 19 | 60 | 6 | 38 | 18 | 1 | □ | — |
| | 3.84 | 19 | 60 | 6 | 38 | 18 | 1 | □ | — |
| | 3.85 | 19 | 60 | 6 | 38 | 18 | 1 | □ | — |
| | 3.86 | 19 | 60 | 6 | 38 | 18 | 1 | □ | — |
| | 3.87 | 19 | 60 | 6 | 38 | 18 | 1 | □ | — |
| | 3.88 | 19 | 60 | 6 | 38 | 18 | 1 | □ | — |
| | 3.89 | 19 | 60 | 6 | 38 | 18.1 | 1 | □ | — |
| 3330390 | 3.9 | 19 | 60 | 6 | 38 | 18.1 | 1 | B ● | 6,790 |
| | 3.91 | 19 | 60 | 6 | 38 | 18.1 | 1 | □ | — |
| | 3.92 | 19 | 60 | 6 | 38 | 18.1 | 1 | □ | — |
| | 3.93 | 19 | 60 | 6 | 38 | 18.1 | 1 | □ | — |

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------|------------|-------------|---------------|
| | 3.94 | 19 | 60 | 6 | 38 | 18.2 | 1 | □ | — |
| | 3.95 | 19 | 60 | 6 | 38 | 18.2 | 1 | □ | — |
| | 3.96 | 19 | 60 | 6 | 38 | 18.2 | 1 | □ | — |
| | 3.97 | 19 | 60 | 6 | 38 | 18.2 | 1 | □ | — |
| | 3.98 | 19 | 60 | 6 | 38 | 18.2 | 1 | □ | — |
| | 3.99 | 19 | 60 | 6 | 38 | 18.2 | 1 | □ | — |
| 3330400 | 4 | 19 | 60 | 6 | 38 | 18.3 | 1 | B ● | 6,790 |
| | 4.01 | 19 | 60 | 6 | 38 | 18.3 | 1 | □ | — |
| | 4.02 | 19 | 60 | 6 | 38 | 18.3 | 1 | □ | — |
| 3330403 | 4.03 | 19 | 60 | 6 | 38 | 18.3 | 1 | B ● | 7,270 |
| | 4.04 | 19 | 60 | 6 | 38 | 18.3 | 1 | □ | — |
| | 4.05 | 19 | 60 | 6 | 38 | 18.4 | 1 | □ | — |
| | 4.06 | 19 | 60 | 6 | 38 | 18.4 | 1 | □ | — |
| | 4.07 | 19 | 60 | 6 | 38 | 18.4 | 1 | □ | — |
| | 4.08 | 19 | 60 | 6 | 38 | 18.4 | 1 | □ | — |
| | 4.09 | 19 | 60 | 6 | 38 | 18.4 | 1 | □ | — |
| 3330410 | 4.1 | 19 | 60 | 6 | 38 | 18.5 | 1 | B ● | 7,270 |
| | 4.11 | 21 | 60 | 6 | 38 | 18.5 | 1 | □ | — |
| | 4.12 | 21 | 60 | 6 | 38 | 18.5 | 1 | □ | — |
| | 4.13 | 21 | 60 | 6 | 38 | 18.5 | 1 | □ | — |
| | 4.14 | 21 | 60 | 6 | 38 | 18.5 | 1 | □ | — |
| | 4.15 | 21 | 60 | 6 | 38 | 18.5 | 1 | □ | — |
| | 4.16 | 21 | 60 | 6 | 38 | 18.6 | 1 | □ | — |
| | 4.17 | 21 | 60 | 6 | 38 | 18.6 | 1 | □ | — |
| | 4.18 | 21 | 60 | 6 | 38 | 18.6 | 1 | □ | — |
| | 4.19 | 21 | 60 | 6 | 38 | 18.6 | 1 | □ | — |

・アイコンの説明はp.8をご覧ください。

・See p.8 for explanation of icons.

● = 標準在庫品 ● = Standard stock item

□ = 特定代理店在庫品

□ = Stocked by specific distributors. Contact us for price & availability.



FROM

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| 3330420 | 4.2 | 21 | 60 | 6 | 38 | 18.6 | 1 | B ● | 7,270 |
| | 4.21 | 21 | 60 | 6 | 38 | 18.7 | 1 | □ | — |
| | 4.22 | 21 | 60 | 6 | 38 | 18.7 | 1 | □ | — |
| | 4.23 | 21 | 60 | 6 | 38 | 18.7 | 1 | □ | — |
| | 4.24 | 21 | 60 | 6 | 38 | 18.7 | 1 | □ | — |
| | 4.25 | 21 | 60 | 6 | 38 | 18.7 | 1 | — □ | — |
| | 4.26 | 21 | 60 | 6 | 38 | 18.8 | 1 | □ | — |
| | 4.27 | 21 | 60 | 6 | 38 | 18.8 | 1 | □ | — |
| | 4.28 | 21 | 60 | 6 | 38 | 18.8 | 1 | □ | — |
| | 4.29 | 21 | 60 | 6 | 38 | 18.8 | 1 | □ | — |
| 3330430 | 4.3 | 21 | 60 | 6 | 38 | 18.8 | 1 | B ● | 7,270 |
| | 4.31 | 21 | 60 | 6 | 38 | 18.8 | 1 | □ | — |
| | 4.32 | 21 | 60 | 6 | 38 | 18.9 | 1 | □ | — |
| | 4.33 | 21 | 60 | 6 | 38 | 18.9 | 1 | □ | — |
| | 4.34 | 21 | 60 | 6 | 38 | 18.9 | 1 | □ | — |
| | 4.35 | 21 | 60 | 6 | 38 | 18.9 | 1 | — □ | — |
| | 4.36 | 21 | 60 | 6 | 38 | 18.9 | 1 | □ | — |
| | 4.37 | 21 | 60 | 6 | 38 | 19 | 1 | □ | — |
| | 4.38 | 21 | 60 | 6 | 38 | 19 | 1 | □ | — |
| | 4.39 | 21 | 60 | 6 | 38 | 19 | 1 | □ | — |
| 3330440 | 4.4 | 21 | 60 | 6 | 38 | 19 | 1 | B ● | 7,270 |
| | 4.41 | 21 | 60 | 6 | 38 | 19 | 1 | □ | — |
| | 4.42 | 21 | 60 | 6 | 38 | 19.1 | 1 | □ | — |
| | 4.43 | 21 | 60 | 6 | 38 | 19.1 | 1 | □ | — |
| | 4.44 | 21 | 60 | 6 | 38 | 19.1 | 1 | □ | — |
| | 4.45 | 21 | 60 | 6 | 38 | 19.1 | 1 | — □ | — |
| | 4.46 | 21 | 60 | 6 | 38 | 19.1 | 1 | □ | — |
| | 4.47 | 21 | 60 | 6 | 38 | 19.1 | 1 | □ | — |
| | 4.48 | 21 | 60 | 6 | 38 | 19.2 | 1 | □ | — |
| | 4.49 | 21 | 60 | 6 | 38 | 19.2 | 1 | □ | — |
| 3330450 | 4.5 | 21 | 60 | 6 | 38 | 19.2 | 1 | B ● | 7,270 |
| | 4.51 | 21 | 60 | 6 | 38 | 19.2 | 1 | □ | — |
| | 4.52 | 21 | 60 | 6 | 38 | 19.2 | 1 | □ | — |
| 3330453 | 4.53 | 21 | 60 | 6 | 38 | 19.3 | 1 | B ● | 7,780 |
| | 4.54 | 21 | 60 | 6 | 38 | 19.3 | 1 | — □ | — |

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| | 4.55 | 21 | 60 | 6 | 38 | 19.3 | 1 | □ | — |
| | 4.56 | 21 | 60 | 6 | 38 | 19.3 | 1 | □ | — |
| | 4.57 | 21 | 60 | 6 | 38 | 19.3 | 1 | — □ | — |
| | 4.58 | 21 | 60 | 6 | 38 | 19.4 | 1 | □ | — |
| | 4.59 | 21 | 60 | 6 | 38 | 19.4 | 1 | □ | — |
| 3330460 | 4.6 | 21 | 60 | 6 | 38 | 19.4 | 1 | B ● | 7,780 |
| | 4.61 | 21 | 60 | 6 | 38 | 19.4 | 1 | — □ | — |
| 3330462 | 4.62 | 21 | 60 | 6 | 38 | 19.4 | 1 | B ● | 7,780 |
| | 4.63 | 21 | 60 | 6 | 38 | 19.4 | 1 | — □ | — |
| 3330464 | 4.64 | 21 | 60 | 6 | 38 | 19.5 | 1 | B ● | 7,780 |
| | 4.65 | 21 | 60 | 6 | 38 | 19.5 | 1 | □ | — |
| | 4.66 | 21 | 60 | 6 | 38 | 19.5 | 1 | □ | — |
| | 4.67 | 21 | 60 | 6 | 38 | 19.5 | 1 | — □ | — |
| | 4.68 | 21 | 60 | 6 | 38 | 19.5 | 1 | □ | — |
| | 4.69 | 21 | 60 | 6 | 38 | 19.6 | 1 | □ | — |
| 3330470 | 4.7 | 21 | 60 | 6 | 38 | 19.6 | 1 | B ● | 7,780 |
| | 4.71 | 24 | 65 | 6 | 38 | 24.6 | 1 | □ | — |
| | 4.72 | 24 | 65 | 6 | 38 | 24.6 | 1 | □ | — |
| | 4.73 | 24 | 65 | 6 | 38 | 24.6 | 1 | □ | — |
| | 4.74 | 24 | 65 | 6 | 38 | 24.6 | 1 | □ | — |
| | 4.75 | 24 | 65 | 6 | 38 | 24.7 | 1 | — □ | — |
| | 4.76 | 24 | 65 | 6 | 38 | 24.7 | 1 | □ | — |
| | 4.77 | 24 | 65 | 6 | 38 | 24.7 | 1 | □ | — |
| | 4.78 | 24 | 65 | 6 | 38 | 24.7 | 1 | □ | — |
| | 4.79 | 24 | 65 | 6 | 38 | 24.7 | 1 | □ | — |
| 3330480 | 4.8 | 24 | 65 | 6 | 38 | 24.8 | 1 | B ● | 7,780 |
| | 4.81 | 24 | 65 | 6 | 38 | 24.8 | 1 | □ | — |
| | 4.82 | 24 | 65 | 6 | 38 | 24.8 | 1 | □ | — |
| | 4.83 | 24 | 65 | 6 | 38 | 24.8 | 1 | □ | — |
| | 4.84 | 24 | 65 | 6 | 38 | 24.8 | 1 | □ | — |
| | 4.85 | 24 | 65 | 6 | 38 | 24.9 | 1 | — □ | — |
| | 4.86 | 24 | 65 | 6 | 38 | 24.9 | 1 | □ | — |
| | 4.87 | 24 | 65 | 6 | 38 | 24.9 | 1 | □ | — |
| | 4.88 | 24 | 65 | 6 | 38 | 24.9 | 1 | □ | — |
| | 4.89 | 24 | 65 | 6 | 38 | 24.9 | 1 | □ | — |

● = 標準在庫品 ● = Standard stock item
 □ = 特定代理店在庫品
 □ = Stocked by specific distributors. Contact us for price & availability.

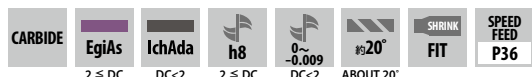
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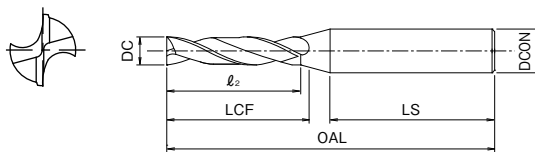
ADF-2D



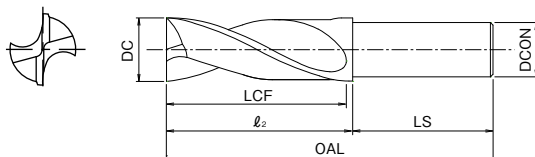
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------|------------|-------------|---------------|
| 3330490 | 4.9 | 24 | 65 | 6 | 38 | 24.9 | 1 | B ● | 7,780 |
| | 4.91 | 24 | 65 | 6 | 38 | 25 | 1 | □ | — |
| | 4.92 | 24 | 65 | 6 | 38 | 25 | 1 | □ | — |
| | 4.93 | 24 | 65 | 6 | 38 | 25 | 1 | □ | — |
| | 4.94 | 24 | 65 | 6 | 38 | 25 | 1 | □ | — |
| | 4.95 | 24 | 65 | 6 | 38 | 25 | 1 | — □ | — |
| | 4.96 | 24 | 65 | 6 | 38 | 25.1 | 1 | □ | — |
| | 4.97 | 24 | 65 | 6 | 38 | 25.1 | 1 | □ | — |
| | 4.98 | 24 | 65 | 6 | 38 | 25.1 | 1 | □ | — |
| | 4.99 | 24 | 65 | 6 | 38 | 25.1 | 1 | □ | — |
| 3330500 | 5 | 24 | 65 | 6 | 38 | 25.1 | 1 | B ● | 7,780 |
| | 5.01 | 24 | 65 | 6 | 38 | 25.2 | 1 | □ | — |
| | 5.02 | 24 | 65 | 6 | 38 | 25.2 | 1 | □ | — |
| 3330503 | 5.03 | 24 | 65 | 6 | 38 | 25.2 | 1 | B ● | 8,210 |
| | 5.04 | 24 | 65 | 6 | 38 | 25.2 | 1 | □ | — |
| | 5.05 | 24 | 65 | 6 | 38 | 25.2 | 1 | □ | — |
| | 5.06 | 24 | 65 | 6 | 38 | 25.2 | 1 | □ | — |
| | 5.07 | 24 | 65 | 6 | 38 | 25.3 | 1 | — □ | — |
| | 5.08 | 24 | 65 | 6 | 38 | 25.3 | 1 | □ | — |
| | 5.09 | 24 | 65 | 6 | 38 | 25.3 | 1 | □ | — |
| 3330510 | 5.1 | 24 | 65 | 6 | 38 | 25.3 | 1 | B ● | 8,210 |
| | 5.11 | 24 | 65 | 6 | 38 | 25.3 | 1 | □ | — |
| | 5.12 | 24 | 65 | 6 | 38 | 25.4 | 1 | □ | — |
| | 5.13 | 24 | 65 | 6 | 38 | 25.4 | 1 | — □ | — |
| | 5.14 | 24 | 65 | 6 | 38 | 25.4 | 1 | □ | — |
| | 5.15 | 24 | 65 | 6 | 38 | 25.4 | 1 | □ | — |

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------|------------|-------------|---------------|
| | 5.16 | 24 | 65 | 6 | 38 | 25.4 | 1 | □ | — |
| | 5.17 | 24 | 65 | 6 | 38 | 25.5 | 1 | □ | — |
| | 5.18 | 24 | 65 | 6 | 38 | 25.5 | 1 | □ | — |
| | 5.19 | 24 | 65 | 6 | 38 | 25.5 | 1 | □ | — |
| 3330520 | 5.2 | 24 | 65 | 6 | 38 | 25.5 | 1 | B ● | 8,210 |
| | 5.21 | 24 | 65 | 6 | 38 | 25.5 | 1 | □ | — |
| | 5.22 | 24 | 65 | 6 | 38 | 25.5 | 1 | □ | — |
| | 5.23 | 24 | 65 | 6 | 38 | 25.6 | 1 | □ | — |
| | 5.24 | 24 | 65 | 6 | 38 | 25.6 | 1 | □ | — |
| | 5.25 | 24 | 65 | 6 | 38 | 25.6 | 1 | — □ | — |
| | 5.26 | 24 | 65 | 6 | 38 | 25.6 | 1 | □ | — |
| | 5.27 | 24 | 65 | 6 | 38 | 25.6 | 1 | □ | — |
| | 5.28 | 24 | 65 | 6 | 38 | 25.7 | 1 | □ | — |
| | 5.29 | 24 | 65 | 6 | 38 | 25.7 | 1 | □ | — |
| 3330530 | 5.3 | 24 | 65 | 6 | 38 | 25.7 | 1 | B ● | 8,210 |
| | 5.31 | 27 | 65 | 6 | 38 | 25.7 | 1 | □ | — |
| | 5.32 | 27 | 65 | 6 | 38 | 25.7 | 1 | □ | — |
| | 5.33 | 27 | 65 | 6 | 38 | 25.7 | 1 | □ | — |
| | 5.34 | 27 | 65 | 6 | 38 | 25.8 | 1 | □ | — |
| | 5.35 | 27 | 65 | 6 | 38 | 25.8 | 1 | — □ | — |
| | 5.36 | 27 | 65 | 6 | 38 | 25.8 | 1 | □ | — |
| | 5.37 | 27 | 65 | 6 | 38 | 25.8 | 1 | □ | — |
| | 5.38 | 27 | 65 | 6 | 38 | 25.8 | 1 | □ | — |
| | 5.39 | 27 | 65 | 6 | 38 | 25.9 | 1 | □ | — |
| 3330540 | 5.4 | 27 | 65 | 6 | 38 | 25.9 | 1 | B ● | 8,210 |
| | 5.41 | 27 | 65 | 6 | 38 | 25.9 | 1 | — □ | — |

● = 標準在庫品 ● = Standard stock item
□ = 特定代理店在庫品

□ = Stocked by specific distributors. Contact us for price & availability.

NEXT



FROM

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|----------------------------|---------------|
| | 5.42 | 27 | 65 | 6 | 38 | 25.9 | 1 | <input type="checkbox"/> | — |
| | 5.43 | 27 | 65 | 6 | 38 | 25.9 | 1 | <input type="checkbox"/> | — |
| | 5.44 | 27 | 65 | 6 | 38 | 26 | 1 | <input type="checkbox"/> | — |
| | 5.45 | 27 | 65 | 6 | 38 | 26 | 1 | <input type="checkbox"/> | — |
| | 5.46 | 27 | 65 | 6 | 38 | 26 | 1 | <input type="checkbox"/> | — |
| | 5.47 | 27 | 65 | 6 | 38 | 26 | 1 | <input type="checkbox"/> | — |
| | 5.48 | 27 | 65 | 6 | 38 | 26 | 1 | <input type="checkbox"/> | — |
| | 5.49 | 27 | 65 | 6 | 38 | 26 | 1 | <input type="checkbox"/> | — |
| 3330550 | 5.5 | 27 | 65 | 6 | 38 | 26.1 | 1 | B ● | 8,210 |
| | 5.51 | 27 | 65 | 6 | 38 | 26.1 | 1 | — <input type="checkbox"/> | — |
| 3330552 | 5.52 | 27 | 65 | 6 | 38 | 26.1 | 1 | B ● | 8,610 |
| | 5.53 | 27 | 65 | 6 | 38 | 26.1 | 1 | — <input type="checkbox"/> | — |
| 3330554 | 5.54 | 27 | 65 | 6 | 38 | 26.1 | 1 | B ● | 8,610 |
| | 5.55 | 27 | 65 | 6 | 38 | 26.2 | 1 | <input type="checkbox"/> | — |
| | 5.56 | 27 | 65 | 6 | 38 | 26.2 | 1 | <input type="checkbox"/> | — |
| | 5.57 | 27 | 65 | 6 | 38 | 26.2 | 1 | — <input type="checkbox"/> | — |
| | 5.58 | 27 | 65 | 6 | 38 | 26.2 | 1 | <input type="checkbox"/> | — |
| | 5.59 | 27 | 65 | 6 | 38 | 26.2 | 1 | <input type="checkbox"/> | — |
| 3330560 | 5.6 | 27 | 65 | 6 | 38 | 26.3 | 1 | B ● | 8,610 |
| | 5.61 | 27 | 65 | 6 | 38 | 26.3 | 1 | <input type="checkbox"/> | — |
| | 5.62 | 27 | 65 | 6 | 38 | 26.3 | 1 | <input type="checkbox"/> | — |
| | 5.63 | 27 | 65 | 6 | 38 | 26.3 | 1 | <input type="checkbox"/> | — |
| | 5.64 | 27 | 65 | 6 | 38 | 26.3 | 1 | <input type="checkbox"/> | — |
| | 5.65 | 27 | 65 | 6 | 38 | 26.3 | 1 | — <input type="checkbox"/> | — |
| | 5.66 | 27 | 65 | 6 | 38 | 26.4 | 1 | <input type="checkbox"/> | — |
| | 5.67 | 27 | 65 | 6 | 38 | 26.4 | 1 | <input type="checkbox"/> | — |
| | 5.68 | 27 | 65 | 6 | 38 | 26.4 | 1 | <input type="checkbox"/> | — |
| | 5.69 | 27 | 65 | 6 | 38 | 26.4 | 1 | <input type="checkbox"/> | — |
| 3330570 | 5.7 | 27 | 65 | 6 | 38 | 26.4 | 1 | B ● | 8,610 |
| | 5.71 | 27 | 65 | 6 | 38 | 26.5 | 1 | <input type="checkbox"/> | — |
| | 5.72 | 27 | 65 | 6 | 38 | 26.5 | 1 | <input type="checkbox"/> | — |
| | 5.73 | 27 | 65 | 6 | 38 | 26.5 | 1 | <input type="checkbox"/> | — |
| | 5.74 | 27 | 65 | 6 | 38 | 26.5 | 1 | — <input type="checkbox"/> | — |
| | 5.75 | 27 | 65 | 6 | 38 | 26.5 | 1 | <input type="checkbox"/> | — |
| | 5.76 | 27 | 65 | 6 | 38 | 26.6 | 1 | <input type="checkbox"/> | — |

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|----------------------------|---------------|
| | 5.77 | 27 | 65 | 6 | 38 | 26.6 | 1 | <input type="checkbox"/> | — |
| | 5.78 | 27 | 65 | 6 | 38 | 26.6 | 1 | — <input type="checkbox"/> | — |
| | 5.79 | 27 | 65 | 6 | 38 | 26.6 | 1 | <input type="checkbox"/> | — |
| 3330580 | 5.8 | 27 | 65 | 6 | 38 | 26.6 | 1 | B ● | 8,610 |
| | 5.81 | 27 | 65 | 6 | 38 | 26.6 | 1 | <input type="checkbox"/> | — |
| | 5.82 | 27 | 65 | 6 | 38 | 26.7 | 1 | <input type="checkbox"/> | — |
| | 5.83 | 27 | 65 | 6 | 38 | 26.7 | 1 | <input type="checkbox"/> | — |
| | 5.84 | 27 | 65 | 6 | 38 | 26.7 | 1 | <input type="checkbox"/> | — |
| | 5.85 | 27 | 65 | 6 | 38 | 26.7 | 1 | — <input type="checkbox"/> | — |
| | 5.86 | 27 | 65 | 6 | 38 | 26.7 | 1 | <input type="checkbox"/> | — |
| | 5.87 | 27 | 65 | 6 | 38 | 26.8 | 1 | <input type="checkbox"/> | — |
| | 5.88 | 27 | 65 | 6 | 38 | 26.8 | 1 | <input type="checkbox"/> | — |
| | 5.89 | 27 | 65 | 6 | 38 | 26.8 | 1 | <input type="checkbox"/> | — |
| 3330590 | 5.9 | 27 | 65 | 6 | 38 | 26.8 | 1 | B ● | 8,610 |
| | 5.91 | 27 | 65 | 6 | 38 | 26.8 | 1 | <input type="checkbox"/> | — |
| | 5.92 | 27 | 65 | 6 | 38 | 26.9 | 1 | <input type="checkbox"/> | — |
| | 5.93 | 27 | 65 | 6 | 38 | 26.9 | 1 | <input type="checkbox"/> | — |
| | 5.94 | 27 | 65 | 6 | 38 | 26.9 | 1 | <input type="checkbox"/> | — |
| | 5.95 | 27 | 65 | 6 | 38 | 26.9 | 1 | — <input type="checkbox"/> | — |
| | 5.96 | 27 | 65 | 6 | 38 | 26.9 | 1 | <input type="checkbox"/> | — |
| | 5.97 | 27 | 65 | 6 | 38 | 26.9 | 1 | <input type="checkbox"/> | — |
| | 5.98 | 27 | 65 | 6 | 38 | 27 | 1 | <input type="checkbox"/> | — |
| | 5.99 | 27 | 65 | 6 | 38 | 27 | 1 | <input type="checkbox"/> | — |
| 3330600 | 6 | 27 | 65 | 6 | 38 | 27 | 2 | B ● | 8,610 |
| | 6.01 | 30 | 70 | 6 | 38 | 32 | 2 | — <input type="checkbox"/> | — |
| | 6.02 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| 3330603 | 6.03 | 30 | 70 | 6 | 38 | 32 | 2 | B ● | 8,610 |
| | 6.04 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.05 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.06 | 30 | 70 | 6 | 38 | 32 | 2 | — <input type="checkbox"/> | — |
| | 6.07 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.08 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.09 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| 3330610 | 6.1 | 30 | 70 | 6 | 38 | 32 | 2 | B ● | 8,610 |
| | 6.11 | 30 | 70 | 6 | 38 | 32 | 2 | — <input type="checkbox"/> | — |

● = 標準在庫品 ● = Standard stock item
□ = 特定代理店在庫品

□ = Stocked by specific distributors. Contact us for price & availability.

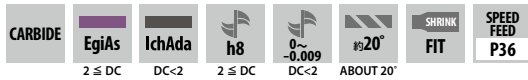
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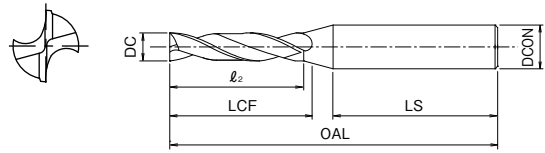
ADF-2D



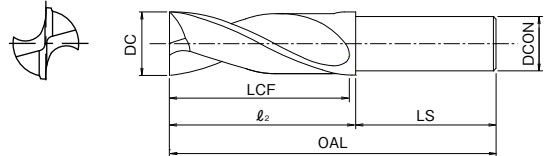
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------|------------|--------------------------|---------------|
| | 6.12 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.13 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.14 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.15 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.16 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.17 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.18 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.19 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| 3330620 | 6.2 | 30 | 70 | 6 | 38 | 32 | 2 | B ● | 8,610 |
| | 6.21 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.22 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.23 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.24 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.25 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.26 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.27 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.28 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.29 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| 3330630 | 6.3 | 30 | 70 | 6 | 38 | 32 | 2 | B ● | 8,610 |
| | 6.31 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.32 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.33 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.34 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.35 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.36 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.37 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------|------------|--------------------------|---------------|
| | 6.38 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.39 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| 3330640 | 6.4 | 30 | 70 | 6 | 38 | 32 | 2 | B ● | 8,610 |
| | 6.41 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.42 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.43 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.44 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.45 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.46 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.47 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.48 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.49 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| 3330650 | 6.5 | 30 | 70 | 6 | 38 | 32 | 2 | B ● | 8,610 |
| | 6.51 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.52 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| 3330653 | 6.53 | 30 | 70 | 6 | 38 | 32 | 2 | B ● | 9,150 |
| | 6.54 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.55 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.56 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.57 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.58 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.59 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| 3330660 | 6.6 | 30 | 70 | 6 | 38 | 32 | 2 | B ● | 9,150 |
| | 6.61 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.62 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.63 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |

● = 標準在庫品 ● = Standard stock item

= 特定代理店在庫品

= Stocked by specific distributors. Contact us for price & availability.



FROM

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|----------------------------|---------------|
| | 6.64 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.65 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.66 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.67 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.68 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.69 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| 3330670 | 6.7 | 30 | 70 | 6 | 38 | 32 | 2 | B ● | 9,150 |
| | 6.71 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.72 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.73 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.74 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.75 | 30 | 70 | 6 | 38 | 32 | 2 | — <input type="checkbox"/> | — |
| | 6.76 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.77 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.78 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.79 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| 3330680 | 6.8 | 30 | 70 | 6 | 38 | 32 | 2 | B ● | 9,150 |
| | 6.81 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.82 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.83 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.84 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.85 | 30 | 70 | 6 | 38 | 32 | 2 | — <input type="checkbox"/> | — |
| | 6.86 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.87 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.88 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.89 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| 3330690 | 6.9 | 30 | 70 | 6 | 38 | 32 | 2 | B ● | 9,150 |
| | 6.91 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.92 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.93 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.94 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.95 | 30 | 70 | 6 | 38 | 32 | 2 | — <input type="checkbox"/> | — |
| | 6.96 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.97 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |
| | 6.98 | 30 | 70 | 6 | 38 | 32 | 2 | <input type="checkbox"/> | — |

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|----------------------------|---------------|
| | 6.99 | 30 | 70 | 6 | 38 | 32 | 2 | — <input type="checkbox"/> | — |
| 3330700 | 7 | 30 | 70 | 6 | 38 | 32 | 2 | B ● | 9,150 |
| | 7.01 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.02 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| 3330703 | 7.03 | 34 | 75 | 6 | 39 | 36 | 2 | B ● | 9,690 |
| | 7.04 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.05 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.06 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.07 | 34 | 75 | 6 | 39 | 36 | 2 | — <input type="checkbox"/> | — |
| | 7.08 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.09 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| 3330710 | 7.1 | 34 | 75 | 6 | 39 | 36 | 2 | B ● | 9,690 |
| | 7.11 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.12 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.13 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.14 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.15 | 34 | 75 | 6 | 39 | 36 | 2 | — <input type="checkbox"/> | — |
| | 7.16 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.17 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.18 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.19 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| 3330720 | 7.2 | 34 | 75 | 6 | 39 | 36 | 2 | B ● | 9,690 |
| | 7.21 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.22 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.23 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.24 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.25 | 34 | 75 | 6 | 39 | 36 | 2 | — <input type="checkbox"/> | — |
| | 7.26 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.27 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.28 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.29 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| 3330730 | 7.3 | 34 | 75 | 6 | 39 | 36 | 2 | B ● | 9,690 |
| | 7.31 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.32 | 34 | 75 | 6 | 39 | 36 | 2 | — <input type="checkbox"/> | — |
| | 7.33 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |

● = 標準在庫品 ● = Standard stock item
 = 特定代理店在庫品
 = Stocked by specific distributors. Contact us for price & availability.

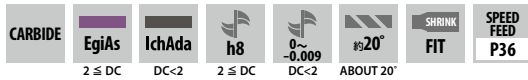
NEXT



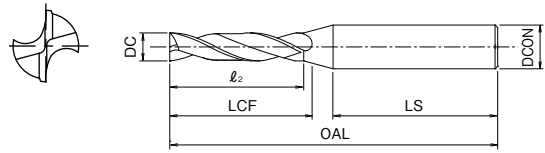
ADF-2D



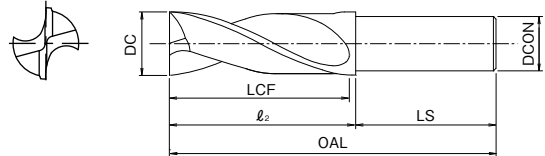
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) | |
|-------------------|----------|-----------|-----------|---------------|-------------|----------|------------|--------------------------|--------------------------|---|
| | 7.34 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.35 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.36 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.37 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.38 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.39 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| 3330740 | 7.4 | 34 | 75 | 6 | 39 | 36 | 2 | B ● | 9,690 | |
| | 7.41 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.42 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.43 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.44 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.45 | 34 | 75 | 6 | 39 | 36 | 2 | — | <input type="checkbox"/> | — |
| | 7.46 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.47 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.48 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.49 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| 3330750 | 7.5 | 34 | 75 | 6 | 39 | 36 | 2 | B ● | 9,690 | |
| | 7.51 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.52 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.53 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.54 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.55 | 34 | 75 | 6 | 39 | 36 | 2 | — | <input type="checkbox"/> | — |
| | 7.56 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.57 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.58 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.59 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) | |
|-------------------|----------|-----------|-----------|---------------|-------------|----------|------------|--------------------------|--------------------------|---|
| 3330760 | 7.6 | 34 | 75 | 6 | 39 | 36 | 2 | B ● | 10,300 | |
| | 7.61 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.62 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.63 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.64 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.65 | 34 | 75 | 6 | 39 | 36 | 2 | — | <input type="checkbox"/> | — |
| | 7.66 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.67 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.68 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.69 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| 3330770 | 7.7 | 34 | 75 | 6 | 39 | 36 | 2 | B ● | 10,300 | |
| | 7.71 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.72 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.73 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.74 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.75 | 34 | 75 | 6 | 39 | 36 | 2 | — | <input type="checkbox"/> | — |
| | 7.76 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.77 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.78 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.79 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| 3330780 | 7.8 | 34 | 75 | 6 | 39 | 36 | 2 | B ● | 10,300 | |
| | 7.81 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.82 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.83 | 34 | 75 | 6 | 39 | 36 | 2 | — | <input type="checkbox"/> | — |
| | 7.84 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |
| | 7.85 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — | |

● = 標準在庫品 ● = Standard stock item

□ = 特定代理店在庫品

□ = Stocked by specific distributors. Contact us for price & availability.

NEXT



FROM

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|--------------------------|---------------|
| | 7.86 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.87 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.88 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.89 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| 3330790 | 7.9 | 34 | 75 | 6 | 39 | 36 | 2 | B ● | 10,300 |
| | 7.91 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.92 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.93 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.94 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.95 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.96 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.97 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.98 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| | 7.99 | 34 | 75 | 6 | 39 | 36 | 2 | <input type="checkbox"/> | — |
| 3330800 | 8 | 34 | 75 | 8 | 39 | 36 | 2 | B ● | 10,300 |
| | 8.01 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.02 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| 3330803 | 8.03 | 38 | 80 | 8 | 40 | 40 | 2 | B ● | 10,900 |
| | 8.04 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.05 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.06 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.07 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.08 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.09 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| 3330810 | 8.1 | 38 | 80 | 8 | 40 | 40 | 2 | B ● | 10,900 |
| | 8.11 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.12 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.13 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.14 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.15 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.16 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.17 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.18 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.19 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| 3330820 | 8.2 | 38 | 80 | 8 | 40 | 40 | 2 | B ● | 10,900 |

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|--------------------------|---------------|
| | 8.21 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.22 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.23 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.24 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.25 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.26 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.27 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.28 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.29 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| 3330830 | 8.3 | 38 | 80 | 8 | 40 | 40 | 2 | B ● | 10,900 |
| | 8.31 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.32 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.33 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.34 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.35 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.36 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.37 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.38 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.39 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| 3330840 | 8.4 | 38 | 80 | 8 | 40 | 40 | 2 | B ● | 10,900 |
| | 8.41 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.42 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.43 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.44 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.45 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.46 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.47 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.48 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.49 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| 3330850 | 8.5 | 38 | 80 | 8 | 40 | 40 | 2 | B ● | 10,900 |
| | 8.51 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.52 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| 3330853 | 8.53 | 38 | 80 | 8 | 40 | 40 | 2 | B ● | 11,400 |
| | 8.54 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |
| | 8.55 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — |

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 = 特定代理店在庫品
 = Stocked by specific distributors. Contact us for price & availability.

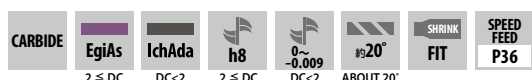
NEXT



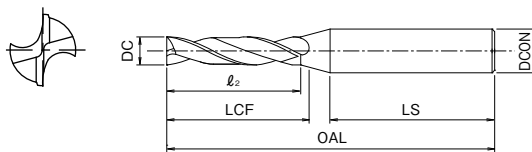
ADF-2D



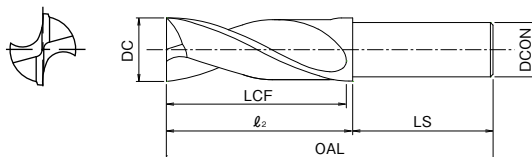
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ϕ_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) | |
|-------------------|----------|-----------|-----------|---------------|-------------|----------|------------|--------------------------|--------------------------|---|
| | 8.56 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.57 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.58 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.59 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| 3330860 | 8.6 | 38 | 80 | 8 | 40 | 40 | 2 | B ● | 11,400 | |
| | 8.61 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.62 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.63 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.64 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.65 | 38 | 80 | 8 | 40 | 40 | 2 | — | <input type="checkbox"/> | — |
| | 8.66 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.67 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.68 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.69 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| 3330870 | 8.7 | 38 | 80 | 8 | 40 | 40 | 2 | B ● | 11,400 | |
| | 8.71 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.72 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.73 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.74 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.75 | 38 | 80 | 8 | 40 | 40 | 2 | — | <input type="checkbox"/> | — |
| | 8.76 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.77 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.78 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.79 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| 3330880 | 8.8 | 38 | 80 | 8 | 40 | 40 | 2 | B ● | 11,400 | |
| | 8.81 | 38 | 80 | 8 | 40 | 40 | 2 | — | <input type="checkbox"/> | — |

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ϕ_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) | |
|-------------------|----------|-----------|-----------|---------------|-------------|----------|------------|--------------------------|--------------------------|---|
| | 8.82 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.83 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.84 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.85 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.86 | 38 | 80 | 8 | 40 | 40 | 2 | — | <input type="checkbox"/> | — |
| | 8.87 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.88 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.89 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| 3330890 | 8.9 | 38 | 80 | 8 | 40 | 40 | 2 | B ● | 11,400 | |
| | 8.91 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.92 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.93 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.94 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.95 | 38 | 80 | 8 | 40 | 40 | 2 | — | <input type="checkbox"/> | — |
| | 8.96 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.97 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.98 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| | 8.99 | 38 | 80 | 8 | 40 | 40 | 2 | <input type="checkbox"/> | — | |
| 3330900 | 9 | 38 | 80 | 8 | 40 | 40 | 2 | B ● | 11,400 | |
| | 9.01 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — | |
| | 9.02 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — | |
| 3330903 | 9.03 | 42 | 85 | 8 | 41 | 44 | 2 | B ● | 11,900 | |
| | 9.04 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — | |
| | 9.05 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — | |
| | 9.06 | 42 | 85 | 8 | 41 | 44 | 2 | — | <input type="checkbox"/> | — |
| | 9.07 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — | |

● = 標準在庫品 ● = Standard stock item
□ = 特定代理店在庫品

□ = Stocked by specific distributors. Contact us for price & availability.

NEXT



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|----------------------------|---------------|
| | 9.08 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.09 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| 3330910 | 9.1 | 42 | 85 | 8 | 41 | 44 | 2 | B ● | 11,900 |
| | 9.11 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.12 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.13 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.14 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.15 | 42 | 85 | 8 | 41 | 44 | 2 | — <input type="checkbox"/> | — |
| | 9.16 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.17 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.18 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.19 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| 3330920 | 9.2 | 42 | 85 | 8 | 41 | 44 | 2 | B ● | 11,900 |
| | 9.21 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.22 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.23 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.24 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.25 | 42 | 85 | 8 | 41 | 44 | 2 | — <input type="checkbox"/> | — |
| | 9.26 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.27 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.28 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.29 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| 3330930 | 9.3 | 42 | 85 | 8 | 41 | 44 | 2 | B ● | 11,900 |
| | 9.31 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.32 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.33 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.34 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.35 | 42 | 85 | 8 | 41 | 44 | 2 | — <input type="checkbox"/> | — |
| | 9.36 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.37 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.38 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.39 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| 3330940 | 9.4 | 42 | 85 | 8 | 41 | 44 | 2 | B ● | 11,900 |
| | 9.41 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.42 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|----------------------------|---------------|
| | 9.43 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.44 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.45 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.46 | 42 | 85 | 8 | 41 | 44 | 2 | — <input type="checkbox"/> | — |
| | 9.47 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.48 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.49 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| 3330950 | 9.5 | 42 | 85 | 8 | 41 | 44 | 2 | B ● | 11,900 |
| | 9.51 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.52 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.53 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.54 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.55 | 42 | 85 | 8 | 41 | 44 | 2 | — <input type="checkbox"/> | — |
| | 9.56 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.57 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.58 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.59 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| 3330960 | 9.6 | 42 | 85 | 8 | 41 | 44 | 2 | B ● | 12,500 |
| | 9.61 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.62 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.63 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.64 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.65 | 42 | 85 | 8 | 41 | 44 | 2 | — <input type="checkbox"/> | — |
| | 9.66 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.67 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.68 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.69 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| 3330970 | 9.7 | 42 | 85 | 8 | 41 | 44 | 2 | B ● | 12,500 |
| | 9.71 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.72 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.73 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.74 | 42 | 85 | 8 | 41 | 44 | 2 | — <input type="checkbox"/> | — |
| | 9.75 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.76 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |
| | 9.77 | 42 | 85 | 8 | 41 | 44 | 2 | <input type="checkbox"/> | — |

● = 標準在庫品 ● = Standard stock item
 = 特定代理店在庫品
 = Stocked by specific distributors. Contact us for price & availability.

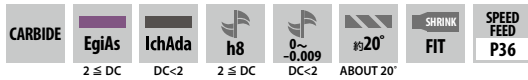
NEXT



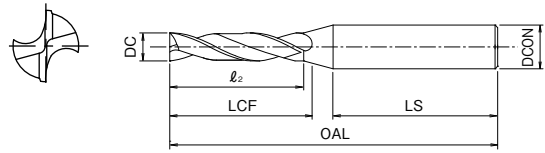
ADF-2D



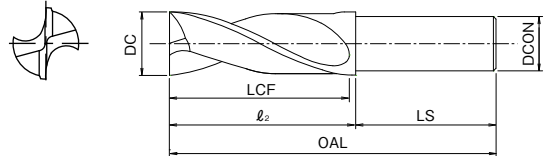
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| | 9.78 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.79 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| 3330980 | 9.8 | 42 | 85 | 8 | 41 | 44 | 2 | B ● | 12,500 |
| | 9.81 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.82 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.83 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.84 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.85 | 42 | 85 | 8 | 41 | 44 | 2 | — □ | — |
| | 9.86 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.87 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.88 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.89 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| 3330990 | 9.9 | 42 | 85 | 8 | 41 | 44 | 2 | B ● | 12,500 |
| | 9.91 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.92 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.93 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.94 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.95 | 42 | 85 | 8 | 41 | 44 | 2 | — □ | — |
| | 9.96 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.97 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.98 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| | 9.99 | 42 | 85 | 8 | 41 | 44 | 2 | □ | — |
| 3331000 | 10 | 42 | 85 | 10 | 41 | 44 | 2 | ● | 12,500 |
| 3331003 | 10.03 | 46 | 90 | 10 | 42 | 48 | 2 | B ● | 13,000 |
| 3331010 | 10.1 | 46 | 90 | 10 | 42 | 48 | 2 | ● | 13,000 |
| 3331020 | 10.2 | 46 | 90 | 10 | 42 | 48 | 2 | ● | 13,000 |

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| 3331030 | 10.3 | 46 | 90 | 10 | 42 | 48 | 2 | ● | 13,000 |
| 3331040 | 10.4 | 46 | 90 | 10 | 42 | 48 | 2 | ● | 13,000 |
| 3331050 | 10.5 | 46 | 90 | 10 | 42 | 48 | 2 | ● | 13,000 |
| 3331060 | 10.6 | 46 | 90 | 10 | 42 | 48 | 2 | ● | 13,400 |
| 3331070 | 10.7 | 46 | 90 | 10 | 42 | 48 | 2 | ● | 13,400 |
| 3331080 | 10.8 | 46 | 90 | 10 | 42 | 48 | 2 | ● | 13,400 |
| 3331090 | 10.9 | 46 | 90 | 10 | 42 | 48 | 2 | ● | 13,400 |
| 3331100 | 11 | 46 | 90 | 10 | 42 | 48 | 2 | ● | 13,400 |
| 3331103 | 11.03 | 50 | 95 | 10 | 43 | 52 | 2 | ● | 14,100 |
| 3331110 | 11.1 | 50 | 95 | 10 | 43 | 52 | 2 | ● | 14,100 |
| 3331120 | 11.2 | 50 | 95 | 10 | 43 | 52 | 2 | ● | 14,100 |
| 3331130 | 11.3 | 50 | 95 | 10 | 43 | 52 | 2 | ● | 14,100 |
| 3331140 | 11.4 | 50 | 95 | 10 | 43 | 52 | 2 | B ● | 14,100 |
| 3331150 | 11.5 | 50 | 95 | 10 | 43 | 52 | 2 | ● | 14,100 |
| 3331160 | 11.6 | 50 | 95 | 10 | 43 | 52 | 2 | ● | 14,600 |
| 3331170 | 11.7 | 50 | 95 | 10 | 43 | 52 | 2 | ● | 14,600 |
| 3331180 | 11.8 | 50 | 95 | 10 | 43 | 52 | 2 | ● | 14,600 |
| 3331190 | 11.9 | 50 | 95 | 10 | 43 | 52 | 2 | ● | 14,600 |
| 3331200 | 12 | 50 | 95 | 12 | 43 | 52 | 2 | ● | 14,600 |
| 3331203 | 12.03 | 56 | 100 | 12 | 42 | 58 | 2 | ● | 17,000 |
| 3331210 | 12.1 | 56 | 100 | 12 | 42 | 58 | 2 | ● | 17,000 |
| 3331220 | 12.2 | 56 | 100 | 12 | 42 | 58 | 2 | ● | 17,000 |
| 3331230 | 12.3 | 56 | 100 | 12 | 42 | 58 | 2 | ● | 17,000 |
| 3331240 | 12.4 | 56 | 100 | 12 | 42 | 58 | 2 | ● | 17,000 |
| 3331250 | 12.5 | 56 | 100 | 12 | 42 | 58 | 2 | ● | 17,000 |
| 3331260 | 12.6 | 56 | 100 | 12 | 42 | 58 | 2 | ● | 17,000 |

● = 標準在庫品 ● = Standard stock item
□ = 特定代理店在庫品

□ = Stocked by specific distributors. Contact us for price & availability.

NEXT



FROM

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| 3331270 | 12.7 | 56 | 100 | 12 | 42 | 58 | 2 | ● | 17,000 |
| 3331280 | 12.8 | 56 | 100 | 12 | 42 | 58 | 2 | ● | 17,000 |
| 3331290 | 12.9 | 56 | 100 | 12 | 42 | 58 | 2 | ● | 17,000 |
| 3331300 | 13 | 56 | 100 | 12 | 42 | 58 | 2 | ● | 17,000 |
| 3331310 | 13.1 | 60 | 105 | 12 | 43 | 62 | 2 | ● | 20,400 |
| 3331320 | 13.2 | 60 | 105 | 12 | 43 | 62 | 2 | ● | 20,400 |
| 3331330 | 13.3 | 60 | 105 | 12 | 43 | 62 | 2 | ● | 20,400 |
| 3331340 | 13.4 | 60 | 105 | 12 | 43 | 62 | 2 | ● | 20,400 |
| 3331350 | 13.5 | 60 | 105 | 12 | 43 | 62 | 2 | ● | 20,400 |
| 3331360 | 13.6 | 60 | 105 | 12 | 43 | 62 | 2 | ● | 20,400 |
| 3331370 | 13.7 | 60 | 105 | 12 | 43 | 62 | 2 | ● | 20,400 |
| 3331380 | 13.8 | 60 | 105 | 12 | 43 | 62 | 2 | ● | 20,400 |
| 3331390 | 13.9 | 60 | 105 | 12 | 43 | 62 | 2 | ● | 20,400 |
| 3331400 | 14 | 60 | 105 | 12 | 43 | 62 | 2 | ● | 20,400 |
| 3331410 | 14.1 | 64 | 110 | 12 | 44 | 66 | 2 | ● | 22,900 |
| 3331420 | 14.2 | 64 | 110 | 12 | 44 | 66 | 2 | ● | 22,900 |
| 3331430 | 14.3 | 64 | 110 | 12 | 44 | 66 | 2 | ● | 22,900 |
| 3331440 | 14.4 | 64 | 110 | 12 | 44 | 66 | 2 | ● | 22,900 |
| 3331450 | 14.5 | 64 | 110 | 12 | 44 | 66 | 2 | ● | 22,900 |
| 3331460 | 14.6 | 64 | 110 | 12 | 44 | 66 | 2 | ● | 22,900 |
| 3331470 | 14.7 | 64 | 110 | 12 | 44 | 66 | 2 | ● | 22,900 |
| 3331480 | 14.8 | 64 | 110 | 12 | 44 | 66 | 2 | ● | 22,900 |
| 3331490 | 14.9 | 64 | 110 | 12 | 44 | 66 | 2 | ● | 22,900 |
| 3331500 | 15 | 64 | 110 | 12 | 44 | 66 | 2 | ● | 22,900 |
| 3331510 | 15.1 | 68 | 115 | 12 | 45 | 70 | 2 | ● | 25,700 |
| 3331520 | 15.2 | 68 | 115 | 12 | 45 | 70 | 2 | ● | 25,700 |
| 3331530 | 15.3 | 68 | 115 | 12 | 45 | 70 | 2 | ● | 25,700 |
| 3331540 | 15.4 | 68 | 115 | 12 | 45 | 70 | 2 | ● | 25,700 |
| 3331550 | 15.5 | 68 | 115 | 12 | 45 | 70 | 2 | ● | 25,700 |
| 3331560 | 15.6 | 68 | 115 | 12 | 45 | 70 | 2 | ● | 25,700 |
| 3331570 | 15.7 | 68 | 115 | 12 | 45 | 70 | 2 | ● | 25,700 |
| 3331580 | 15.8 | 68 | 115 | 12 | 45 | 70 | 2 | ● | 25,700 |
| 3331590 | 15.9 | 68 | 115 | 12 | 45 | 70 | 2 | ● | 25,700 |
| 3331600 | 16 | 68 | 115 | 16 | 45 | 70 | 2 | ● | 25,700 |
| | 16.1 | 74 | 125 | 16 | 49 | 76 | 2 | □ | — |
| | 16.2 | 74 | 125 | 16 | 49 | 76 | 2 | □ | — |
| | 16.3 | 74 | 125 | 16 | 49 | 76 | 2 | □ | — |

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| | 16.4 | 74 | 125 | 16 | 49 | 76 | 2 | □ | — |
| 3331650 | 16.5 | 74 | 125 | 16 | 49 | 76 | 2 | B ● | 35,400 |
| | 16.6 | 74 | 125 | 16 | 49 | 76 | 2 | □ | — |
| | 16.7 | 74 | 125 | 16 | 49 | 76 | 2 | □ | — |
| | 16.8 | 74 | 125 | 16 | 49 | 76 | 2 | □ | — |
| | 16.9 | 74 | 125 | 16 | 49 | 76 | 2 | □ | — |
| 3331700 | 17 | 74 | 125 | 16 | 49 | 76 | 2 | B ● | 35,400 |
| | 17.1 | 78 | 130 | 16 | 50 | 80 | 2 | □ | — |
| | 17.2 | 78 | 130 | 16 | 50 | 80 | 2 | □ | — |
| | 17.3 | 78 | 130 | 16 | 50 | 80 | 2 | □ | — |
| | 17.4 | 78 | 130 | 16 | 50 | 80 | 2 | □ | — |
| 3331750 | 17.5 | 78 | 130 | 16 | 50 | 80 | 2 | B ● | 36,600 |
| | 17.6 | 78 | 130 | 16 | 50 | 80 | 2 | □ | — |
| | 17.7 | 78 | 130 | 16 | 50 | 80 | 2 | □ | — |
| | 17.8 | 78 | 130 | 16 | 50 | 80 | 2 | □ | — |
| | 17.9 | 78 | 130 | 16 | 50 | 80 | 2 | □ | — |
| 3331800 | 18 | 78 | 130 | 16 | 50 | 80 | 2 | B ● | 36,600 |
| | 18.1 | 84 | 135 | 16 | 49 | 86 | 2 | □ | — |
| | 18.2 | 84 | 135 | 16 | 49 | 86 | 2 | □ | — |
| | 18.3 | 84 | 135 | 16 | 49 | 86 | 2 | □ | — |
| | 18.4 | 84 | 135 | 16 | 49 | 86 | 2 | □ | — |
| 3331850 | 18.5 | 84 | 135 | 16 | 49 | 86 | 2 | B ● | 40,100 |
| | 18.6 | 84 | 135 | 16 | 49 | 86 | 2 | □ | — |
| | 18.7 | 84 | 135 | 16 | 49 | 86 | 2 | □ | — |
| | 18.8 | 84 | 135 | 16 | 49 | 86 | 2 | □ | — |
| | 18.9 | 84 | 135 | 16 | 49 | 86 | 2 | □ | — |
| 3331900 | 19 | 84 | 135 | 16 | 49 | 86 | 2 | B ● | 40,100 |
| | 19.1 | 88 | 140 | 16 | 50 | 90 | 2 | □ | — |
| | 19.2 | 88 | 140 | 16 | 50 | 90 | 2 | □ | — |
| | 19.3 | 88 | 140 | 16 | 50 | 90 | 2 | □ | — |
| | 19.4 | 88 | 140 | 16 | 50 | 90 | 2 | □ | — |
| 3331950 | 19.5 | 88 | 140 | 16 | 50 | 90 | 2 | B ● | 45,400 |
| | 19.6 | 88 | 140 | 16 | 50 | 90 | 2 | □ | — |
| | 19.7 | 88 | 140 | 16 | 50 | 90 | 2 | □ | — |
| | 19.8 | 88 | 140 | 16 | 50 | 90 | 2 | □ | — |
| | 19.9 | 88 | 140 | 16 | 50 | 90 | 2 | □ | — |
| 3332000 | 20 | 88 | 140 | 20 | 50 | 90 | 2 | B ● | 45,400 |

● = 標準在庫品 ● = Standard stock item
 □ = 特定代理店在庫品
 □ = Stocked by specific distributors. Contact us for price & availability.



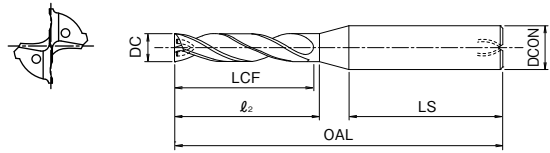
ADFO-3D



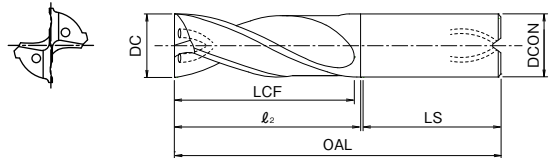
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| 3334300 | 3 | 15 | 55 | 4 | 37.1 | 16 | 1 | ● | 7,780 |
| 3334301 | 3.03 | 15 | 55 | 4 | 37.2 | 16 | 1 | ● | 8,390 |
| 3334302 | 3.1 | 15 | 55 | 4 | 37.3 | 16 | 1 | ● | 8,390 |
| 3334303 | 3.15 | 15 | 55 | 4 | 37.4 | 16 | 1 | ● | 8,390 |
| 3334304 | 3.2 | 15 | 55 | 4 | 37.5 | 16 | 1 | ● | 8,390 |
| 3334305 | 3.3 | 15 | 55 | 4 | 37.7 | 16 | 1 | ● | 8,390 |
| 3334306 | 3.4 | 16 | 55 | 4 | 36.9 | 17 | 1 | ● | 8,390 |
| 3334307 | 3.5 | 16 | 55 | 4 | 37.1 | 17 | 1 | ● | 8,390 |
| 3334308 | 3.53 | 16 | 55 | 4 | 37.1 | 17 | 1 | ● | 8,820 |
| 3334309 | 3.6 | 16 | 55 | 4 | 37.3 | 17 | 1 | ● | 8,820 |
| 3334310 | 3.66 | 16 | 55 | 4 | 37.4 | 17 | 1 | ● | 8,820 |
| 3334311 | 3.68 | 16 | 55 | 4 | 37.4 | 17 | 1 | ● | 8,820 |
| 3334312 | 3.7 | 16 | 55 | 4 | 37.4 | 17 | 1 | ● | 8,820 |
| 3334313 | 3.8 | 19 | 60 | 4 | 39.6 | 20 | 1 | B ● | 8,820 |
| 3334314 | 3.9 | 19 | 60 | 4 | 39.8 | 20 | 1 | ● | 8,820 |
| 3334315 | 4 | 19 | 60 | 4 | 40 | 20 | 2 | ● | 8,820 |
| 3334316 | 4.03 | 21 | 60 | 6 | 34.3 | 22 | 1 | ● | 9,440 |
| 3334317 | 4.1 | 21 | 60 | 6 | 34.5 | 22 | 1 | ● | 9,440 |
| 3334318 | 4.2 | 21 | 60 | 6 | 34.6 | 22 | 1 | ● | 9,440 |
| 3334319 | 4.3 | 21 | 60 | 6 | 34.8 | 22 | 1 | ● | 9,440 |
| 3334320 | 4.4 | 21 | 60 | 6 | 35 | 22 | 1 | ● | 9,440 |
| 3334321 | 4.5 | 21 | 60 | 6 | 35.2 | 22 | 1 | ● | 9,440 |
| 3334322 | 4.53 | 21 | 60 | 6 | 35.3 | 22 | 1 | ● | 10,200 |
| 3334323 | 4.6 | 21 | 60 | 6 | 35.4 | 22 | 1 | ● | 10,200 |
| 3334324 | 4.62 | 21 | 60 | 6 | 35.4 | 22 | 1 | ● | 10,200 |
| 3334325 | 4.64 | 21 | 60 | 6 | 35.5 | 22 | 1 | ● | 10,200 |
| 3334326 | 4.7 | 21 | 60 | 6 | 35.6 | 22 | 1 | ● | 10,200 |

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| 3334327 | 4.8 | 24 | 65 | 6 | 37.8 | 25 | 1 | ● | 10,200 |
| 3334328 | 4.9 | 24 | 65 | 6 | 37.9 | 25 | 1 | ● | 10,200 |
| 3334329 | 5 | 24 | 65 | 6 | 38.1 | 25 | 1 | ● | 10,200 |
| 3334330 | 5.03 | 24 | 65 | 6 | 38.2 | 25 | 1 | ● | 10,700 |
| 3334331 | 5.1 | 24 | 65 | 6 | 38.3 | 25 | 1 | ● | 10,700 |
| 3334332 | 5.2 | 24 | 65 | 6 | 38.5 | 25 | 1 | ● | 10,700 |
| 3334333 | 5.3 | 24 | 65 | 6 | 38.7 | 25 | 1 | ● | 10,700 |
| 3334334 | 5.4 | 27 | 65 | 6 | 35.9 | 28 | 1 | ● | 10,700 |
| 3334335 | 5.5 | 27 | 65 | 6 | 36.1 | 28 | 1 | ● | 10,700 |
| 3334336 | 5.52 | 27 | 65 | 6 | 36.1 | 28 | 1 | ● | 11,300 |
| 3334337 | 5.54 | 27 | 65 | 6 | 36.1 | 28 | 1 | ● | 11,300 |
| 3334338 | 5.6 | 27 | 65 | 6 | 36.3 | 28 | 1 | ● | 11,300 |
| 3334339 | 5.7 | 27 | 65 | 6 | 36.4 | 28 | 1 | ● | 11,300 |
| 3334340 | 5.8 | 27 | 65 | 6 | 36.6 | 28 | 1 | B ● | 11,300 |
| 3334341 | 5.9 | 27 | 65 | 6 | 36.8 | 28 | 1 | ● | 11,300 |
| 3334342 | 6 | 27 | 65 | 6 | 37 | 28 | 2 | ● | 11,300 |
| 3334343 | 6.03 | 30 | 70 | 8 | 35.3 | 31 | 1 | ● | 11,300 |
| 3334344 | 6.1 | 30 | 70 | 8 | 35.5 | 31 | 1 | ● | 11,300 |
| 3334345 | 6.2 | 30 | 70 | 8 | 35.6 | 31 | 1 | ● | 11,300 |
| 3334346 | 6.3 | 30 | 70 | 8 | 35.8 | 31 | 1 | ● | 11,300 |
| 3334347 | 6.4 | 30 | 70 | 8 | 36 | 31 | 1 | ● | 11,300 |
| 3334348 | 6.5 | 30 | 70 | 8 | 36.2 | 31 | 1 | ● | 11,300 |
| 3334349 | 6.53 | 30 | 70 | 8 | 36.3 | 31 | 1 | ● | 12,000 |
| 3334350 | 6.6 | 30 | 70 | 8 | 36.4 | 31 | 1 | ● | 12,000 |
| 3334351 | 6.7 | 30 | 70 | 8 | 36.6 | 31 | 1 | ● | 12,000 |
| 3334352 | 6.8 | 30 | 70 | 8 | 36.8 | 31 | 1 | ● | 12,000 |
| 3334353 | 6.9 | 30 | 70 | 8 | 36.9 | 31 | 1 | ● | 12,000 |

● = 標準在庫品 ● = Standard stock item

・アイコンの説明はp.8をご覧ください。
・See p.8 for explanation of icons.

NEXT



FROM

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| 3334354 | 7 | 30 | 70 | 8 | 37.1 | 31 | 1 | ● | 12,000 |
| 3334355 | 7.03 | 30 | 70 | 8 | 37.2 | 31 | 1 | ● | 12,700 |
| 3334356 | 7.1 | 34 | 75 | 8 | 38.3 | 35 | 1 | ● | 12,700 |
| 3334357 | 7.2 | 34 | 75 | 8 | 38.5 | 35 | 1 | ● | 12,700 |
| 3334358 | 7.3 | 34 | 75 | 8 | 38.7 | 35 | 1 | ● | 12,700 |
| 3334359 | 7.4 | 34 | 75 | 8 | 38.9 | 35 | 1 | ● | 12,700 |
| 3334360 | 7.5 | 34 | 75 | 8 | 39.1 | 35 | 1 | ● | 12,700 |
| 3334361 | 7.6 | 34 | 75 | 8 | 39.3 | 35 | 1 | ● | 13,400 |
| 3334362 | 7.7 | 34 | 75 | 8 | 39.4 | 35 | 1 | ● | 13,400 |
| 3334363 | 7.8 | 34 | 75 | 8 | 39.6 | 35 | 1 | ● | 13,400 |
| 3334364 | 7.9 | 34 | 75 | 8 | 39.8 | 35 | 1 | ● | 13,400 |
| 3334365 | 8 | 34 | 75 | 8 | 40 | 35 | 2 | ● | 13,400 |
| 3334366 | 8.03 | 38 | 80 | 10 | 37.3 | 39 | 1 | ● | 14,100 |
| 3334367 | 8.1 | 38 | 80 | 10 | 37.5 | 39 | 1 | B ● | 14,100 |
| 3334368 | 8.2 | 38 | 80 | 10 | 37.6 | 39 | 1 | ● | 14,100 |
| 3334369 | 8.3 | 38 | 80 | 10 | 37.8 | 39 | 1 | ● | 14,100 |
| 3334370 | 8.4 | 38 | 80 | 10 | 38 | 39 | 1 | ● | 14,100 |
| 3334371 | 8.5 | 38 | 80 | 10 | 38.2 | 39 | 1 | ● | 14,100 |
| 3334372 | 8.53 | 38 | 80 | 10 | 38.3 | 39 | 1 | ● | 14,700 |
| 3334373 | 8.6 | 38 | 80 | 10 | 38.4 | 39 | 1 | ● | 14,700 |
| 3334374 | 8.7 | 38 | 80 | 10 | 38.6 | 39 | 1 | ● | 14,700 |
| 3334375 | 8.8 | 38 | 80 | 10 | 38.8 | 39 | 1 | ● | 14,700 |
| 3334376 | 8.9 | 38 | 80 | 10 | 38.9 | 39 | 1 | ● | 14,700 |
| 3334377 | 9 | 38 | 80 | 10 | 39.1 | 39 | 1 | ● | 14,700 |
| 3334378 | 9.03 | 38 | 80 | 10 | 39.2 | 39 | 1 | ● | 15,500 |
| 3334379 | 9.1 | 42 | 85 | 10 | 40.3 | 43 | 1 | ● | 15,500 |
| 3334380 | 9.2 | 42 | 85 | 10 | 40.5 | 43 | 1 | ● | 15,500 |

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| 3334381 | 9.3 | 42 | 85 | 10 | 40.7 | 43 | 1 | ● | 15,500 |
| 3334382 | 9.4 | 42 | 85 | 10 | 40.9 | 43 | 1 | ● | 15,500 |
| 3334383 | 9.5 | 42 | 85 | 10 | 41.1 | 43 | 1 | ● | 15,500 |
| 3334384 | 9.6 | 42 | 85 | 10 | 41.3 | 43 | 1 | ● | 16,100 |
| 3334385 | 9.7 | 42 | 85 | 10 | 41.4 | 43 | 1 | ● | 16,100 |
| 3334386 | 9.8 | 42 | 85 | 10 | 41.6 | 43 | 1 | ● | 16,100 |
| 3334387 | 9.9 | 42 | 85 | 10 | 41.8 | 43 | 1 | ● | 16,100 |
| 3334388 | 10 | 42 | 85 | 10 | 42 | 43 | 2 | ● | 16,100 |
| 3334389 | 10.03 | 46 | 90 | 12 | 39.3 | 47 | 1 | ● | 16,800 |
| 3334390 | 10.1 | 46 | 90 | 12 | 39.5 | 47 | 1 | ● | 16,800 |
| 3334391 | 10.2 | 46 | 90 | 12 | 39.8 | 47 | 1 | ● | 16,800 |
| 3334392 | 10.3 | 46 | 90 | 12 | 39.8 | 47 | 1 | ● | 16,800 |
| 3334393 | 10.4 | 46 | 90 | 12 | 40 | 47 | 1 | ● | 16,800 |
| 3334394 | 10.5 | 46 | 90 | 12 | 40.2 | 47 | 1 | B ● | 16,800 |
| 3334395 | 10.6 | 46 | 90 | 12 | 40.4 | 47 | 1 | ● | 17,500 |
| 3334396 | 10.7 | 46 | 90 | 12 | 40.8 | 47 | 1 | ● | 17,500 |
| 3334397 | 10.8 | 46 | 90 | 12 | 40.8 | 47 | 1 | ● | 17,500 |
| 3334398 | 10.9 | 46 | 90 | 12 | 40.9 | 47 | 1 | ● | 17,500 |
| 3334399 | 11 | 46 | 90 | 12 | 41.1 | 47 | 1 | ● | 17,500 |
| 3334400 | 11.03 | 46 | 90 | 12 | 41.2 | 47 | 1 | ● | 18,200 |
| 3334401 | 11.1 | 50 | 95 | 12 | 42.3 | 51 | 1 | ● | 18,200 |
| 3334402 | 11.2 | 50 | 95 | 12 | 42.5 | 51 | 1 | ● | 18,200 |
| 3334403 | 11.3 | 50 | 95 | 12 | 42.7 | 51 | 1 | ● | 18,200 |
| 3334404 | 11.4 | 50 | 95 | 12 | 42.9 | 51 | 1 | ● | 18,200 |
| 3334405 | 11.5 | 50 | 95 | 12 | 43.1 | 51 | 1 | ● | 18,200 |
| 3334406 | 11.6 | 50 | 95 | 12 | 43.3 | 51 | 1 | ● | 18,800 |
| 3334407 | 11.7 | 50 | 95 | 12 | 43.4 | 51 | 1 | ● | 18,800 |

● = 標準在庫品 ● = Standard stock item

NEXT



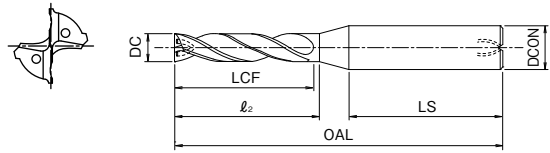
ADFO-3D



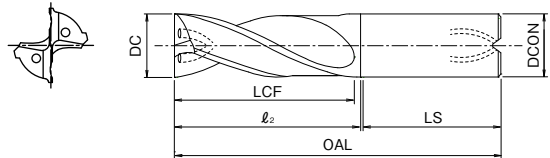
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャン径 DCON | シャン長 LS | ℓ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|--------------|------------|----------------|------------|-------------|---------------|
| 3334408 | 11.8 | 50 | 95 | 12 | 43.6 | 51 | 1 | ● | 18,800 |
| 3334409 | 11.9 | 50 | 95 | 12 | 43.8 | 51 | 1 | ● | 18,800 |
| 3334410 | 12 | 50 | 95 | 12 | 44 | 51 | 2 | ● | 18,800 |
| 3334411 | 12.03 | 56 | 100 | 14 | 39.3 | 57 | 1 | ● | 22,000 |
| 3334412 | 12.1 | 56 | 100 | 14 | 39.5 | 57 | 1 | ● | 22,000 |
| 3334413 | 12.2 | 56 | 100 | 14 | 39.6 | 57 | 1 | ● | 22,000 |
| 3334414 | 12.3 | 56 | 100 | 14 | 39.8 | 57 | 1 | ● | 22,000 |
| 3334415 | 12.4 | 56 | 100 | 14 | 40 | 57 | 1 | ● | 22,000 |
| 3334416 | 12.5 | 56 | 100 | 14 | 40.2 | 57 | 1 | ● | 22,000 |
| 3334417 | 12.6 | 56 | 100 | 14 | 40.4 | 57 | 1 | ● | 22,000 |
| 3334418 | 12.7 | 56 | 100 | 14 | 40.6 | 57 | 1 | ● | 22,000 |
| 3334419 | 12.8 | 56 | 100 | 14 | 40.8 | 57 | 1 | ● | 22,000 |
| 3334420 | 12.9 | 56 | 100 | 14 | 40.9 | 57 | 1 | ● | 22,000 |
| 3334421 | 13 | 56 | 100 | 14 | 41.1 | 57 | 1 | ● | 22,000 |
| 3334422 | 13.1 | 60 | 105 | 14 | 42.3 | 61 | 1 | ● | 26,800 |
| 3334423 | 13.2 | 60 | 105 | 14 | 42.5 | 61 | 1 | ● | 26,800 |
| 3334424 | 13.3 | 60 | 105 | 14 | 42.7 | 61 | 1 | ● | 26,800 |
| 3334425 | 13.4 | 60 | 105 | 14 | 42.9 | 61 | 1 | ● | 26,800 |
| 3334426 | 13.5 | 60 | 105 | 14 | 43.1 | 61 | 1 | ● | 26,800 |
| 3334427 | 13.6 | 60 | 105 | 14 | 43.3 | 61 | 1 | ● | 26,800 |
| 3334428 | 13.7 | 60 | 105 | 14 | 43.4 | 61 | 1 | ● | 26,800 |
| 3334429 | 13.8 | 60 | 105 | 14 | 43.8 | 61 | 1 | ● | 26,800 |
| 3334430 | 13.9 | 60 | 105 | 14 | 43.8 | 61 | 1 | ● | 26,800 |
| 3334431 | 14 | 60 | 105 | 14 | 44 | 61 | 2 | ● | 26,800 |
| 3334432 | 14.1 | 64 | 110 | 16 | 41.5 | 65 | 1 | ● | 29,700 |
| 3334433 | 14.2 | 64 | 110 | 16 | 41.6 | 65 | 1 | ● | 29,700 |

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャン径 DCON | シャン長 LS | ℓ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|--------------|------------|----------------|------------|-------------|---------------|
| 3334434 | 14.3 | 64 | 110 | 16 | 41.8 | 65 | 1 | ● | 29,700 |
| 3334435 | 14.4 | 64 | 110 | 16 | 42 | 65 | 1 | ● | 29,700 |
| 3334436 | 14.5 | 64 | 110 | 16 | 42.2 | 65 | 1 | ● | 29,700 |
| 3334437 | 14.6 | 64 | 110 | 16 | 42.4 | 65 | 1 | ● | 29,700 |
| 3334438 | 14.7 | 64 | 110 | 16 | 42.6 | 65 | 1 | ● | 29,700 |
| 3334439 | 14.8 | 64 | 110 | 16 | 42.8 | 65 | 1 | ● | 29,700 |
| 3334440 | 14.9 | 64 | 110 | 16 | 42.9 | 65 | 1 | ● | 29,700 |
| 3334441 | 15 | 64 | 110 | 16 | 43.1 | 65 | 1 | ● | 29,700 |
| 3334442 | 15.1 | 68 | 115 | 16 | 44.3 | 69 | 1 | ● | 33,600 |
| 3334443 | 15.2 | 68 | 115 | 16 | 44.5 | 69 | 1 | ● | 33,600 |
| 3334444 | 15.3 | 68 | 115 | 16 | 44.7 | 69 | 1 | ● | 33,600 |
| 3334445 | 15.4 | 68 | 115 | 16 | 44.9 | 69 | 1 | ● | 33,600 |
| 3334446 | 15.5 | 68 | 115 | 16 | 45.1 | 69 | 1 | ● | 33,600 |
| 3334447 | 15.6 | 68 | 115 | 16 | 45.3 | 69 | 1 | ● | 33,600 |
| 3334448 | 15.7 | 68 | 115 | 16 | 45.4 | 69 | 1 | ● | 33,600 |
| 3334449 | 15.8 | 68 | 115 | 16 | 45.6 | 69 | 1 | ● | 33,600 |
| 3334450 | 15.9 | 68 | 115 | 16 | 45.8 | 69 | 1 | ● | 33,600 |
| 3334451 | 16 | 68 | 115 | 16 | 46 | 69 | 2 | ● | 33,600 |
| 3334452 | 16.5 | 74 | 125 | 18 | 47.2 | 75 | 1 | ● | 46,000 |
| 3334453 | 17 | 74 | 125 | 18 | 48.1 | 75 | 1 | ● | 46,000 |
| 3334454 | 17.5 | 78 | 130 | 18 | 50.1 | 79 | 1 | ● | 47,300 |
| 3334455 | 18 | 78 | 130 | 18 | 51 | 79 | 2 | ● | 47,300 |
| 3334456 | 18.5 | 84 | 135 | 20 | 47.2 | 85 | 1 | ● | 51,800 |
| 3334457 | 19 | 84 | 135 | 20 | 48.1 | 85 | 1 | ● | 51,800 |
| 3334458 | 19.5 | 88 | 140 | 20 | 50.1 | 89 | 1 | ● | 58,900 |
| 3334459 | 20 | 88 | 140 | 20 | 51 | 89 | 2 | ● | 58,900 |

● = 標準在庫品 ● = Standard stock item

・アイコンの説明はp.8をご覧ください。
・ See p.8 for explanation of icons.



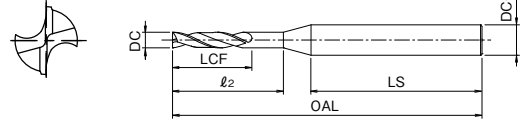
ADFLS-2D NEW SIZE



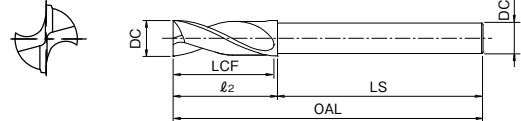
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



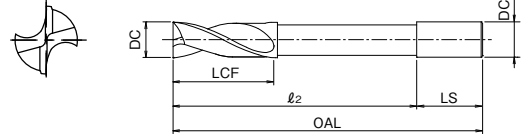
Type 1



Type 2



Type 3



単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| 3332300 | 3 | 15 | 100 | 6 | 64.4 | 30 | 1 | ● | 8,450 |
| 3332310 | 3.1 | 15 | 100 | 6 | 63.6 | 31 | 1 | ● | 9,010 |
| 3332320 | 3.2 | 15 | 100 | 6 | 62.8 | 32 | 1 | ● | 9,010 |
| 3332330 | 3.3 | 15 | 100 | 6 | 62 | 33 | 1 | ● | 9,010 |
| 3332340 | 3.4 | 16 | 100 | 6 | 61.1 | 34 | 1 | ● | 9,010 |
| 3332350 | 3.5 | 16 | 100 | 6 | 60.3 | 35 | 1 | ● | 9,010 |
| 3332360 | 3.6 | 16 | 100 | 6 | 59.5 | 36 | 1 | ● | 9,440 |
| 3332370 | 3.7 | 16 | 100 | 6 | 58.7 | 37 | 1 | ● | 9,440 |
| 3332380 | 3.8 | 19 | 100 | 6 | 57.9 | 38 | 1 | ● | 9,440 |
| 3332390 | 3.9 | 19 | 100 | 6 | 57.1 | 39 | 1 | ● | 9,440 |
| 3332400 | 4 | 19 | 100 | 6 | 56.3 | 40 | 1 | ● | 9,440 |
| 3332410 | 4.1 | 19 | 100 | 6 | 55.5 | 41 | 1 | ● | 9,780 |
| 3332420 | 4.2 | 21 | 100 | 6 | 54.6 | 42 | 1 | ● | 9,780 |
| 3332430 | 4.3 | 21 | 100 | 6 | 53.8 | 43 | 1 | ● | 9,780 |
| 3332440 | 4.4 | 21 | 100 | 6 | 53 | 44 | 1 | ● | 9,780 |
| 3332450 | 4.5 | 21 | 100 | 6 | 52.2 | 45 | 1 | ● | 9,780 |

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| 3332460 | 4.6 | 21 | 100 | 6 | 51.4 | 46 | 1 | ● | 10,500 |
| 3332470 | 4.7 | 21 | 100 | 6 | 50.6 | 47 | 1 | ● | 10,500 |
| 3332480 | 4.8 | 24 | 100 | 6 | 49.8 | 48 | 1 | ● | 10,500 |
| 3332490 | 4.9 | 24 | 100 | 6 | 48.9 | 49 | 1 | ● | 10,500 |
| 3332500 | 5 | 24 | 110 | 6 | 58.1 | 50 | 1 | ● | 10,500 |
| 3332510 | 5.1 | 24 | 110 | 6 | 57.3 | 51 | 1 | ● | 11,300 |
| 3332520 | 5.2 | 24 | 110 | 6 | 56.5 | 52 | 1 | ● | 11,300 |
| 3332530 | 5.3 | 24 | 110 | 6 | 55.7 | 53 | 1 | ● | 11,300 |
| 3332540 | 5.4 | 27 | 110 | 6 | 54.9 | 54 | 1 | ● | 11,300 |
| 3332550 | 5.5 | 27 | 110 | 6 | 54.1 | 55 | 1 | ● | 11,300 |
| 3332560 | 5.6 | 27 | 110 | 6 | 53.3 | 56 | 1 | ● | 11,700 |
| 3332570 | 5.7 | 27 | 110 | 6 | 52.4 | 57 | 1 | ● | 11,700 |
| 3332580 | 5.8 | 27 | 110 | 6 | 51.6 | 58 | 1 | ● | 11,700 |
| 3332590 | 5.9 | 27 | 110 | 6 | 50.8 | 59 | 1 | ● | 11,700 |
| 3332600 | 6 | 27 | 110 | 6 | 81 | 29 | 2 | ● | 11,700 |
| 3334060 | | | | | 50 | 60 | 3 | ● | 11,700 |

・アイコンの説明はp.8をご覧ください。
・See p.8 for explanation of icons.

● = 標準在庫品 ● = Standard stock item

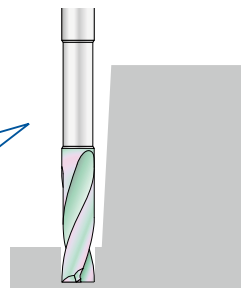
NEXT

ここがいいね!
Key Point

ADFLS-2D Type2(スリムシャンク)、Type3(首逃がし形状)は立壁や治具干渉がある場合に有効です。

The ADFLS-2D Type 2 (slim shank) and Type 3 (neck relief shape) are effective for vertical walls and applications with jig interference.

※ ADFLS-2Dは深穴加工用ではありません。
The ADFLS-2D is not for deep-hole drilling.



特長
Features

加工データ
Cutting Data

油穴無 Non Oil Hole
ADFLS-2D

油穴付き with Oil Hole
ADFO-3D

ロングシャンク Long Shank
ADFLS-2D

小型自動旋盤対応型 Compatible with small automatic lathes
ADF-NC

ADF-NC

切削条件表
Cutting Conditions

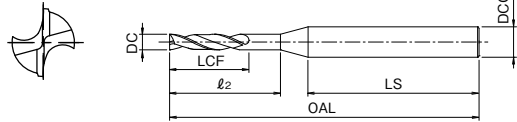
ADFLS-2D NEW SIZE



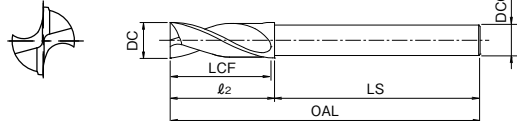
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



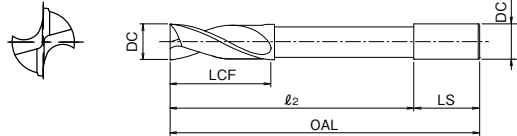
Type 1



Type 2



Type 3



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) | |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|--------|
| ※ | 6.1 | 30 | 120 | 6 | 88 | 32 | 2 | □ | — | |
| ※ | 6.2 | 30 | 120 | 6 | 88 | 32 | 2 | □ | — | |
| ※ | 6.3 | 30 | 120 | 6 | 88 | 32 | 2 | □ | — | |
| ※ | 6.4 | 30 | 120 | 6 | 88 | 32 | 2 | □ | — | |
| 3332650 | 6.5 | 30 | 120 | 6 | 88 | 32 | 2 | B ● | 12,100 | |
| ※ | 6.6 | 30 | 120 | 6 | 88 | 32 | 2 | □ | — | |
| ※ | 6.7 | 30 | 120 | 6 | 88 | 32 | 2 | □ | — | |
| 3332680 | 6.8 | 30 | 120 | 6 | 88 | 32 | 2 | ● | 12,900 | |
| ※ | 3332690 | 6.9 | 30 | 120 | 6 | 88 | 32 | 2 | B ● | 12,900 |
| 3332700 | 7 | 30 | 120 | 6 | 88 | 32 | 2 | ● | 12,900 | |
| ※ | 7.1 | 34 | 130 | 6 | 94 | 36 | 2 | □ | — | |
| ※ | 7.2 | 34 | 130 | 6 | 94 | 36 | 2 | □ | — | |
| ※ | 7.3 | 34 | 130 | 6 | 94 | 36 | 2 | □ | — | |
| ※ | 3332740 | 7.4 | 34 | 130 | 6 | 94 | 36 | 2 | B ● | 14,100 |
| 3332750 | 7.5 | 34 | 130 | 6 | 94 | 36 | 2 | ● | 14,100 | |
| ※ | 7.6 | 34 | 130 | 6 | 94 | 36 | 2 | □ | — | |
| ※ | 7.7 | 34 | 130 | 6 | 94 | 36 | 2 | □ | — | |
| 3332780 | 7.8 | 34 | 130 | 6 | 94 | 36 | 2 | B ● | 15,000 | |
| ※ | 7.9 | 34 | 130 | 6 | 94 | 36 | 2 | □ | — | |
| 3332800 | 8 | 34 | 130 | 8 | 94 | 36 | 2 | B | ● | 15,000 |
| 3334080 | | | | | 50 | 80 | 3 | | ● | 15,000 |
| ※ | 8.1 | 38 | 140 | 8 | 100 | 40 | 2 | □ | — | |
| ※ | 8.2 | 38 | 140 | 8 | 100 | 40 | 2 | □ | — | |
| ※ | 8.3 | 38 | 140 | 8 | 100 | 40 | 2 | □ | — | |
| ※ | 8.4 | 38 | 140 | 8 | 100 | 40 | 2 | □ | — | |
| 3332850 | 8.5 | 38 | 140 | 8 | 100 | 40 | 2 | B ● | 15,900 | |

・アイコンの説明はp.8をご覧ください。

・See p.8 for explanation of icons.

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | ℓ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) | |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|--------|
| ※ | 3332860 | 8.6 | 38 | 140 | 8 | 100 | 40 | 2 | B ● | 16,400 |
| ※ | | 8.7 | 38 | 140 | 8 | 100 | 40 | 2 | □ | — |
| 3332880 | 8.8 | 38 | 140 | 8 | 100 | 40 | 2 | B ● | 16,400 | |
| ※ | | 8.9 | 38 | 140 | 8 | 100 | 40 | 2 | □ | — |
| 3332900 | 9 | 38 | 140 | 8 | 100 | 40 | 2 | B ● | 16,400 | |
| ※ | | 9.1 | 42 | 150 | 8 | 106 | 44 | 2 | □ | — |
| ※ | 3332920 | 9.2 | 42 | 150 | 8 | 106 | 44 | 2 | B ● | 17,600 |
| ※ | | 9.3 | 42 | 150 | 8 | 106 | 44 | 2 | □ | — |
| ※ | | 9.4 | 42 | 150 | 8 | 106 | 44 | 2 | □ | — |
| 3332950 | 9.5 | 42 | 150 | 8 | 106 | 44 | 2 | B ● | 17,600 | |
| ※ | | 9.6 | 42 | 150 | 8 | 106 | 44 | 2 | □ | — |
| ※ | | 9.7 | 42 | 150 | 8 | 106 | 44 | 2 | □ | — |
| 3332980 | 9.8 | 42 | 150 | 8 | 106 | 44 | 2 | B ● | 19,700 | |
| ※ | | 9.9 | 42 | 150 | 8 | 106 | 44 | 2 | □ | — |
| 3333000 | 10 | 42 | 150 | 10 | 106 | 44 | 2 | B | ● | 19,700 |
| 3334100 | | | | | 50 | 100 | 3 | | ● | 19,700 |
| ※ | | 10.1 | 46 | 160 | 10 | 112 | 48 | 2 | □ | — |
| ※ | | 10.2 | 46 | 160 | 10 | 112 | 48 | 2 | □ | — |
| ※ | 3333030 | 10.3 | 46 | 160 | 10 | 112 | 48 | 2 | ● | 20,400 |
| ※ | 3333040 | 10.4 | 46 | 160 | 10 | 112 | 48 | 2 | B ● | 20,400 |
| 3333050 | 10.5 | 46 | 160 | 10 | 112 | 48 | 2 | ● | 20,400 | |
| ※ | | 10.6 | 46 | 160 | 10 | 112 | 48 | 2 | □ | — |
| ※ | | 10.7 | 46 | 160 | 10 | 112 | 48 | 2 | □ | — |
| 3333080 | 10.8 | 46 | 160 | 10 | 112 | 48 | 2 | B ● | 21,300 | |
| ※ | | 10.9 | 46 | 160 | 10 | 112 | 48 | 2 | □ | — |
| 3333100 | 11 | 46 | 160 | 10 | 112 | 48 | 2 | B ● | 21,300 | |

● = 標準在庫品 ● = Standard stock item

□ = 特定代理店在庫品

□ = Stocked by specific distributors. Contact us for price & availability.

※ = NEW SIZES



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) | |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|--------|
| ※ 3333110 | 11.1 | 50 | 170 | 10 | 118 | 52 | 2 B | ● | 22,900 | |
| ※ | 11.2 | 50 | 170 | 10 | 118 | 52 | 2 | □ | — | |
| ※ | 11.3 | 50 | 170 | 10 | 118 | 52 | 2 | □ | — | |
| ※ | 11.4 | 50 | 170 | 10 | 118 | 52 | 2 | □ | — | |
| ※ 3333150 | 11.5 | 50 | 170 | 10 | 118 | 52 | 2 B | ● | 22,900 | |
| ※ | 11.6 | 50 | 170 | 10 | 118 | 52 | 2 | □ | — | |
| ※ | 11.7 | 50 | 170 | 10 | 118 | 52 | 2 | □ | — | |
| 3333180 | 11.8 | 50 | 170 | 10 | 118 | 52 | 2 B | ● | 25,200 | |
| ※ | 11.9 | 50 | 170 | 10 | 118 | 52 | 2 | □ | — | |
| 3333200 | 12 | 50 | 170 | 12 | 118 | 52 | 2 | B | ● | 25,200 |
| 3334120 | | | | | 50 | 120 | 3 | | | |
| ※ | 12.1 | 56 | 180 | 12 | 122 | 58 | 2 | □ | — | |
| ※ | 12.2 | 56 | 180 | 12 | 122 | 58 | 2 | □ | — | |
| ※ | 12.3 | 56 | 180 | 12 | 122 | 58 | 2 | □ | — | |
| ※ | 12.4 | 56 | 180 | 12 | 122 | 58 | 2 | □ | — | |
| 3333250 | 12.5 | 56 | 180 | 12 | 122 | 58 | 2 B | ● | 28,100 | |
| ※ | 12.6 | 56 | 180 | 12 | 122 | 58 | 2 | □ | — | |
| ※ | 12.7 | 56 | 180 | 12 | 122 | 58 | 2 | □ | — | |
| ※ | 12.8 | 56 | 180 | 12 | 122 | 58 | 2 | □ | — | |
| ※ | 12.9 | 56 | 180 | 12 | 122 | 58 | 2 | □ | — | |
| 3333300 | 13 | 56 | 180 | 12 | 122 | 58 | 2 B | ● | 29,400 | |
| ※ | 13.1 | 60 | 190 | 12 | 128 | 62 | 2 | □ | — | |
| ※ | 13.2 | 60 | 190 | 12 | 128 | 62 | 2 | □ | — | |
| ※ | 13.3 | 60 | 190 | 12 | 128 | 62 | 2 | □ | — | |
| ※ | 13.4 | 60 | 190 | 12 | 128 | 62 | 2 | □ | — | |
| 3333350 | 13.5 | 60 | 190 | 12 | 128 | 62 | 2 B | ● | 35,000 | |
| ※ | 13.6 | 60 | 190 | 12 | 128 | 62 | 2 | □ | — | |
| ※ | 13.7 | 60 | 190 | 12 | 128 | 62 | 2 | □ | — | |
| ※ | 13.8 | 60 | 190 | 12 | 128 | 62 | 2 | □ | — | |
| ※ | 13.9 | 60 | 190 | 12 | 128 | 62 | 2 | □ | — | |
| 3333400 | 14 | 60 | 190 | 12 | 128 | 62 | 2 B | ● | 35,300 | |
| ※ | 14.1 | 64 | 200 | 12 | 134 | 66 | 2 | □ | — | |
| ※ | 14.2 | 64 | 200 | 12 | 134 | 66 | 2 | □ | — | |
| ※ | 14.3 | 64 | 200 | 12 | 134 | 66 | 2 | □ | — | |
| ※ | 14.4 | 64 | 200 | 12 | 134 | 66 | 2 | □ | — | |

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) | |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|--------|
| ※ 3333450 | 14.5 | 64 | 200 | 12 | 134 | 66 | 2 B | ● | 41,100 | |
| ※ | 14.6 | 64 | 200 | 12 | 134 | 66 | 2 | □ | — | |
| ※ | 14.7 | 64 | 200 | 12 | 134 | 66 | 2 | □ | — | |
| ※ | 14.8 | 64 | 200 | 12 | 134 | 66 | 2 | □ | — | |
| ※ | 14.9 | 64 | 200 | 12 | 134 | 66 | 2 | □ | — | |
| 3333500 | 15 | 64 | 200 | 12 | 134 | 66 | 2 B | ● | 41,100 | |
| ※ | 15.1 | 68 | 210 | 12 | 140 | 70 | 2 | □ | — | |
| ※ | 15.2 | 68 | 210 | 12 | 140 | 70 | 2 | □ | — | |
| ※ | 15.3 | 68 | 210 | 12 | 140 | 70 | 2 | □ | — | |
| ※ | 15.4 | 68 | 210 | 12 | 140 | 70 | 2 | □ | — | |
| 3333550 | 15.5 | 68 | 210 | 12 | 140 | 70 | 2 B | ● | 54,800 | |
| ※ | 15.6 | 68 | 210 | 12 | 140 | 70 | 2 | □ | — | |
| ※ | 15.7 | 68 | 210 | 12 | 140 | 70 | 2 | □ | — | |
| ※ | 15.8 | 68 | 210 | 12 | 140 | 70 | 2 | □ | — | |
| ※ | 15.9 | 68 | 210 | 12 | 140 | 70 | 2 | □ | — | |
| 3333600 | 16 | 68 | 210 | 16 | 140 | 70 | 2 | B | ● | 54,800 |
| 3334160 | | | | | 50 | 160 | 3 | | | |
| ※ | 16.1 | 74 | 220 | 16 | 144 | 76 | 2 | □ | — | |
| ※ | 16.2 | 74 | 220 | 16 | 144 | 76 | 2 | □ | — | |
| ※ | 16.3 | 74 | 220 | 16 | 144 | 76 | 2 | □ | — | |
| ※ | 16.4 | 74 | 220 | 16 | 144 | 76 | 2 | □ | — | |
| 3333650 | 16.5 | 74 | 220 | 16 | 144 | 76 | 2 B | ● | 60,700 | |
| ※ | 16.6 | 74 | 220 | 16 | 144 | 76 | 2 | □ | — | |
| ※ | 16.7 | 74 | 220 | 16 | 144 | 76 | 2 | □ | — | |
| ※ | 16.8 | 74 | 220 | 16 | 144 | 76 | 2 | □ | — | |
| ※ | 16.9 | 74 | 220 | 16 | 144 | 76 | 2 | □ | — | |
| 3333700 | 17 | 74 | 220 | 16 | 144 | 76 | 2 B | ● | 60,700 | |
| ※ | 17.1 | 78 | 230 | 16 | 150 | 80 | 2 | □ | — | |
| ※ | 17.2 | 78 | 230 | 16 | 150 | 80 | 2 | □ | — | |
| ※ | 17.3 | 78 | 230 | 16 | 150 | 80 | 2 | □ | — | |
| ※ | 17.4 | 78 | 230 | 16 | 150 | 80 | 2 | □ | — | |
| 3333750 | 17.5 | 78 | 230 | 16 | 150 | 80 | 2 B | ● | 82,900 | |
| ※ | 17.6 | 78 | 230 | 16 | 150 | 80 | 2 | □ | — | |
| ※ | 17.7 | 78 | 230 | 16 | 150 | 80 | 2 | □ | — | |
| ※ | 17.8 | 78 | 230 | 16 | 150 | 80 | 2 | □ | — | |

● = 標準在庫品 ● = Standard stock item
 □ = 特定代理店在庫品
 □ = Stocked by specific distributors. Contact us for price & availability.
 ※ = NEW SIZES

NEXT



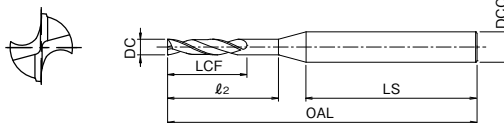
ADFLS-2D NEW SIZE



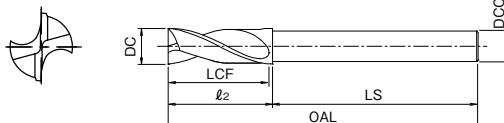
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



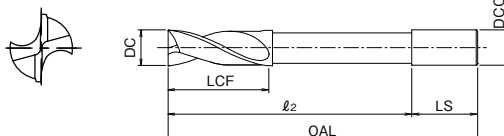
Type 1



Type 2



Type 3



FROM

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| ※ | 17.9 | 78 | 230 | 16 | 150 | 80 | 2 | — | — |
| 3333800 | 18 | 78 | 230 | 16 | 150 | 80 | 2 | B ● | 82,900 |
| ※ | 18.1 | 84 | 240 | 16 | 154 | 86 | 2 | □ | — |
| ※ | 18.2 | 84 | 240 | 16 | 154 | 86 | 2 | □ | — |
| ※ | 18.3 | 84 | 240 | 16 | 154 | 86 | 2 | □ | — |
| ※ | 18.4 | 84 | 240 | 16 | 154 | 86 | 2 | □ | — |
| 3333850 | 18.5 | 84 | 240 | 16 | 154 | 86 | 2 | B ● | 86,100 |
| ※ | 18.6 | 84 | 240 | 16 | 154 | 86 | 2 | □ | — |
| ※ | 18.7 | 84 | 240 | 16 | 154 | 86 | 2 | □ | — |
| ※ | 18.8 | 84 | 240 | 16 | 154 | 86 | 2 | □ | — |
| ※ | 18.9 | 84 | 240 | 16 | 154 | 86 | 2 | □ | — |
| 3333900 | 19 | 84 | 240 | 16 | 154 | 86 | 2 | B ● | 86,100 |

・アイコンの説明はp.8をご覧ください。
・See p.8 for explanation of icons.

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|-------------|---------------|
| ※ | 19.1 | 88 | 250 | 16 | 160 | 90 | 2 | □ | — |
| ※ | 19.2 | 88 | 250 | 16 | 160 | 90 | 2 | □ | — |
| ※ | 19.3 | 88 | 250 | 16 | 160 | 90 | 2 | □ | — |
| ※ | 19.4 | 88 | 250 | 16 | 160 | 90 | 2 | □ | — |
| 3333950 | 19.5 | 88 | 250 | 16 | 160 | 90 | 2 | B ● | 90,900 |
| ※ | 19.6 | 88 | 250 | 16 | 160 | 90 | 2 | □ | — |
| ※ | 19.7 | 88 | 250 | 16 | 160 | 90 | 2 | □ | — |
| ※ | 19.8 | 88 | 250 | 16 | 160 | 90 | 2 | □ | — |
| ※ | 19.9 | 88 | 250 | 16 | 160 | 90 | 2 | □ | — |
| 3334000 | 20 | 88 | 250 | 20 | 160 | 90 | 2 | B ● | 90,900 |
| 50 | | | | | 200 | 3 | 90,900 | | |

● = 標準在庫品 ● = Standard stock item
□ = 特定代理店在庫品
□ = Stocked by specific distributors. Contact us for price & availability.
※ = NEW SIZES

加工のポイント! ADFLS-2D(ロングシャンク)使用時の注意 Machining tip: precautions when using ADFLS-2D (long shank)

食付き時の安定化のためにセンターリングを!

Centering for stabilization of chamfering!

センターリング径の目安

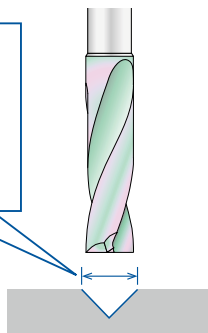
Estimated centering diameter

φ3以下: 直径+0.5mm程度

Less than φ3: diameter + about 0.5 mm

φ3超え: 直径+1mm程度

Above φ3: diameter + 1 mm



センターリングには

超硬リーディングドリルAD-LS-LDSがお勧め

The AD-LS-LDS carbide drill is recommended for centering.



詳細はこちら
Scan for details



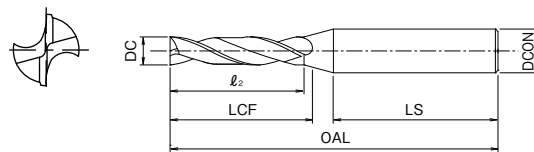
ADF-NC NEW



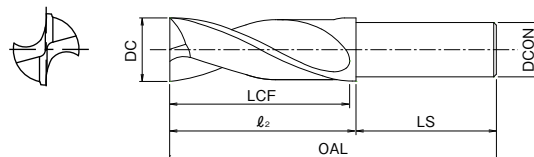
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|--------------------------|---------------|
| | 2 | 6 | 45 | 4 | 35 | 6.3 | 1 | <input type="checkbox"/> | — |
| | 2.5 | 7.5 | 45 | 4 | 35.5 | 6.7 | 1 | <input type="checkbox"/> | — |
| | 3 | 9 | 45 | 4 | 35 | 8.1 | 1 | <input type="checkbox"/> | — |
| | 3.5 | 10.5 | 50 | 4 | 37.5 | 11.6 | 1 | <input type="checkbox"/> | — |
| | 4 | 12 | 50 | 4 | 38 | 12 | 2 | <input type="checkbox"/> | — |
| | 4.5 | 13.5 | 50 | 4 | 38 | 12 | 2 | <input type="checkbox"/> | — |
| | 5 | 15 | 50 | 5 | 35 | 15 | 2 | <input type="checkbox"/> | — |
| | | | | 6 | | 13.1 | 1 | <input type="checkbox"/> | — |
| | 5.5 | 16.5 | 55 | 6 | 36.5 | 17.6 | 1 | <input type="checkbox"/> | — |
| | 6 | 18 | 55 | 6 | 37 | 18 | 2 | <input type="checkbox"/> | — |
| | | | | 6 | 36 | 19 | 2 | <input type="checkbox"/> | — |
| | 7 | 21 | 55 | 6 | 36 | 19 | 2 | <input type="checkbox"/> | — |
| | | | | 7 | 39 | 21 | 2 | <input type="checkbox"/> | — |

・アイコンの説明はp.8をご覧ください。
・ See p.8 for explanation of icons.

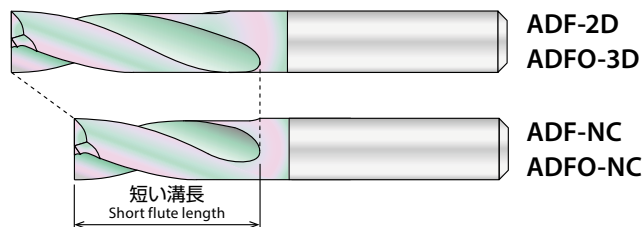
単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | φ ₂ | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|----------------|------------|--------------------------|--------------------------|
| | 8 | 24 | 60 | 6 | 37 | 22 | 2 | <input type="checkbox"/> | — |
| | | | | 7 | 38 | | | <input type="checkbox"/> | — |
| | | | | 8 | 36 | 24 | | <input type="checkbox"/> | — |
| | 9 | 27 | 65 | 6 | 39.1 | 24 | 2 | <input type="checkbox"/> | — |
| | | | | 7 | 40 | | | <input type="checkbox"/> | — |
| | | | | 10 | 38 | 25.1 | | 1 | <input type="checkbox"/> |
| | 10 | 30 | 65 | 6 | 36 | 27 | 2 | <input type="checkbox"/> | — |
| | | | | 7 | 36.1 | | | <input type="checkbox"/> | — |
| | | | | 70 | 10 | 40 | | 30 | <input type="checkbox"/> |
| | 11 | 33 | 70 | 8 | 38.1 | 30 | 2 | <input type="checkbox"/> | — |
| | | | | 75 | 10 | | | 45 | <input type="checkbox"/> |
| | 12 | 36 | 75 | 10 | 40 | 34 | 2 | <input type="checkbox"/> | — |

= 特定代理店在庫品
 = Stocked by specific distributors. Contact us for price & availability.

ここがいいね! Key Point

小型自動旋盤対応型 ADF-NC、ADFO-NC は狭い加工スペースでも使用可能な短い溝長設定
The ADF-NC and ADFO-NC for small automatic lathes have a short flute length configuration that is effective even in narrow machining environment

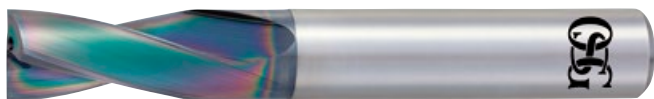


特長 Features
加工データ Cutting Data
油穴無 Non Oil Hole ADF-2D
油穴付き with Oil Hole ADFO-3D
ロングシャンク Long Shank ADFLS-2D
小型自動旋盤対応型 Compatible with small automatic lathes ADF-NC
ADFO-NC

切削条件表 Cutting Conditions

ADFO-NC

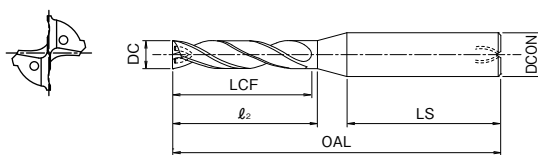
NEW



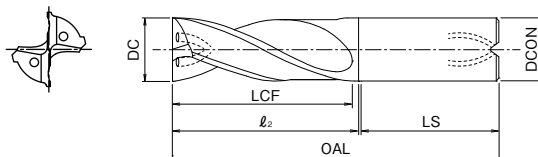
コーティングに色むらが発生する場合がありますが、性能上は全く問題ありません。
Drills may have some discoloration, but it does not cause any performance problems.



Type 1



Type 2



| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | l_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|-------|------------|--------------------------|---------------|
| 3 | 3 | 9 | 45 | 4 | 35.5 | 7.6 | 1 | <input type="checkbox"/> | — |
| 3.5 | 3.5 | 10.5 | 50 | 4 | 37.5 | 11.6 | 1 | <input type="checkbox"/> | — |
| 4 | 4 | 12 | 50 | 4 | 38 | 12 | 2 | <input type="checkbox"/> | — |
| 4.5 | 4.5 | 13.5 | 50 | 5 | 35 | 14.1 | 1 | <input type="checkbox"/> | — |
| 5 | 5 | 15 | 50 | 5 | 35 | 15 | 2 | <input type="checkbox"/> | — |
| | | | | 6 | | 13.1 | 1 | <input type="checkbox"/> | — |

・アイコンの説明はp.8をご覧ください。

・See p.8 for explanation of icons.

単位:mm Unit:mm

| ツールNo. EDP No. | 直径 DC | 溝長 LCF | 全長 OAL | シャンク径 DCON | シャンク長 LS | l_2 | 形状 Type | 在庫 Stock | 標準価格 (Yen) |
|-------------------|----------|-----------|-----------|---------------|-------------|-------|------------|--------------------------|---------------|
| 5.5 | 5.5 | 16.5 | 55 | 6 | 36.5 | 17.6 | 1 | <input type="checkbox"/> | — |
| 6 | 6 | 18 | 55 | 6 | 37 | 18 | 2 | <input type="checkbox"/> | — |
| 7 | 7 | 21 | 60 | 7 | 39 | 21 | 2 | <input type="checkbox"/> | — |
| 8 | 8 | 24 | 60 | 8 | 36 | 24 | 2 | <input type="checkbox"/> | — |
| 10 | 10 | 30 | 70 | 10 | 40 | 30 | 2 | <input type="checkbox"/> | — |

= 特定代理店在庫品

= Stocked by specific distributors. Contact us for price & availability.

オーエスジーは環境に優しい取り組みを推進しています

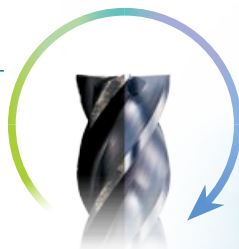
OSG's Environmental Initiatives

再研磨・再コーティング

Tool Reconditioning

使用できなくなった工具を蘇らせ
再利用することは、省資源化と地球環境の
保護活動への貢献につながります。

Tool reconditioning contributes to resource conservation by bringing worn cutting tools back to life, which is environmentally friendly and sustainable.



超硬リサイクル

Carbide Recycling

再研磨できなくなった超硬工具は日本ハードメタルで「超硬リサイクル」
することが可能です。超硬リサイクルは、希少金属のレアメタルを多く含む
超硬材料の使用量を減らすことができ、環境保護に役立ちます。

Carbide tools that can no longer be reground can be recycled through Nihon Hard Metal's carbide recycling program. Cemented carbide materials contain a large amount of rare metals.

Carbide recycling reduces material consumption and contributes to environmental preservation.

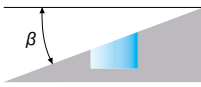


ADF-2D・ADF-NC

| 被削材 Work Material | 低炭素鋼・軟鋼・合金鋼 Low Carbon Steel・Mild Steel・Alloy Steel (C<0.3%) SS400・SCM ~710N/mm ² | | 炭素鋼 Carbon Steel S35C・S50C ~210HB ~710N/mm ² | | 合金鋼 Alloy Steel SCM・SCr・SNCM 28~35HRC 900~1,100N/mm ² | | プラスチック金型用鋼 Plastic Mold Steel NAK80 ~40HRC | | ステンレス鋼 Stainless Steel SUS304 480~800N/mm ² | |
|--------------------------|--|------------------------------|---|------------------------------|--|------------------------------|---|------------------------------|---|------------------------------|
| | 30~100m/min | | 30~100m/min | | 30~90m/min | | 20~40m/min | | 10~30m/min | |
| 切削速度 Cutting Speed | | | | | | | | | | |
| 直径 Drill Dia. (mm) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) |
| 0.2 | 40,000 | 0.001~0.006 | 40,000 | 0.001~0.006 | 40,000 | 0.001~0.006 | 40,000 | 0.001~0.004 | 40,000 | 0.001~0.004 |
| 0.5 | 28,700 | 0.003~0.015 | 28,700 | 0.003~0.015 | 25,500 | 0.003~0.015 | 19,000 | 0.003~0.01 | 15,900 | 0.003~0.01 |
| 1 | 17,500 | 0.005~0.03 | 17,500 | 0.005~0.03 | 15,900 | 0.005~0.03 | 9,550 | 0.005~0.02 | 8,000 | 0.005~0.02 |
| 1.5 | 13,800 | 0.008~0.045 | 13,800 | 0.008~0.045 | 12,700 | 0.008~0.045 | 6,350 | 0.008~0.03 | 5,300 | 0.008~0.03 |
| 2 | 12,700 | 0.01~0.06 | 12,700 | 0.01~0.06 | 9,550 | 0.01~0.06 | 4,750 | 0.01~0.04 | — | — |
| 3 | 8,500 | 0.015~0.09 | 8,500 | 0.015~0.09 | 6,350 | 0.015~0.09 | 3,200 | 0.015~0.06 | — | — |
| 4 | 6,350 | 0.02~0.12 | 6,350 | 0.02~0.12 | 4,750 | 0.02~0.12 | 2,400 | 0.02~0.08 | — | — |
| 6 | 4,250 | 0.03~0.18 | 4,250 | 0.03~0.18 | 3,200 | 0.03~0.18 | 1,600 | 0.03~0.12 | — | — |
| 8 | 3,200 | 0.04~0.24 | 3,200 | 0.04~0.24 | 2,400 | 0.04~0.24 | 1,200 | 0.04~0.16 | — | — |
| 10 | 2,550 | 0.05~0.3 | 2,550 | 0.05~0.3 | 1,900 | 0.05~0.3 | 950 | 0.05~0.2 | — | — |
| 12 | 2,100 | 0.06~0.3 | 2,100 | 0.06~0.3 | 1,600 | 0.06~0.3 | 800 | 0.06~0.24 | — | — |
| 14 | 1,800 | 0.07~0.35 | 1,800 | 0.07~0.35 | 1,350 | 0.07~0.35 | 700 | 0.07~0.28 | — | — |
| 16 | 1,600 | 0.08~0.36 | 1,600 | 0.08~0.36 | 1,200 | 0.08~0.36 | 600 | 0.08~0.32 | — | — |
| 18 | 1,400 | 0.09~0.38 | 1,400 | 0.09~0.38 | 1,050 | 0.09~0.38 | 550 | 0.09~0.36 | — | — |
| 20 | 1,250 | 0.1~0.4 | 1,250 | 0.1~0.4 | 950 | 0.1~0.4 | 500 | 0.1~0.4 | — | — |

| 被削材 Work Material | 特殊鋼・調質鋼 プリハードン鋼 Special Alloy Steel・Hardened Steel・ Prehardened Steel ~45HRC | | 鋳鉄 Cast Iron FC250 ~350N/mm ² | | ダクタイル鋳鉄 Ductile Cast Iron FCD600 400~600N/mm ² | | アルミニウム展伸材 Aluminum A5052・A7075 ~350N/mm ² | | アルミニウム合金鋳物 Aluminum Alloy AC4C・ADC 400~600N/mm ² | |
|--------------------------|--|------------------------------|---|------------------------------|--|------------------------------|---|------------------------------|--|------------------------------|
| | 20~30m/min | | 30~120m/min | | 30~80m/min | | 30~200m/min | | 30~200m/min | |
| 切削速度 Cutting Speed | | | | | | | | | | |
| 直径 Drill Dia. (mm) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) |
| 0.2 | 40,000 | 0.001~0.004 | 40,000 | 0.001~0.006 | 40,000 | 0.001~0.006 | 40,000 | 0.001~0.006 | 40,000 | 0.001~0.006 |
| 0.5 | 15,900 | 0.003~0.01 | 32,000 | 0.003~0.015 | 25,500 | 0.003~0.015 | 35,000 | 0.003~0.015 | 35,000 | 0.003~0.015 |
| 1 | 7,950 | 0.005~0.02 | 22,500 | 0.005~0.03 | 15,900 | 0.005~0.03 | 30,000 | 0.005~0.03 | 30,000 | 0.005~0.03 |
| 1.5 | 5,300 | 0.008~0.03 | 17,000 | 0.008~0.045 | 11,500 | 0.008~0.045 | 25,000 | 0.008~0.045 | 25,000 | 0.008~0.045 |
| 2 | 4,000 | 0.01~0.03 | 14,300 | 0.01~0.06 | 10,350 | 0.01~0.06 | 22,300 | 0.01~0.06 | 22,300 | 0.01~0.06 |
| 3 | 2,650 | 0.015~0.045 | 9,550 | 0.015~0.09 | 6,900 | 0.015~0.09 | 14,850 | 0.015~0.09 | 14,850 | 0.015~0.09 |
| 4 | 2,000 | 0.02~0.06 | 7,150 | 0.02~0.12 | 5,150 | 0.02~0.12 | 11,150 | 0.02~0.12 | 11,150 | 0.02~0.12 |
| 6 | 1,350 | 0.03~0.09 | 4,750 | 0.03~0.18 | 3,450 | 0.03~0.18 | 7,450 | 0.03~0.18 | 7,450 | 0.03~0.18 |
| 8 | 1,000 | 0.04~0.12 | 3,600 | 0.04~0.24 | 2,600 | 0.04~0.24 | 5,550 | 0.04~0.24 | 5,550 | 0.04~0.24 |
| 10 | 800 | 0.05~0.15 | 2,850 | 0.05~0.3 | 2,050 | 0.05~0.3 | 4,450 | 0.05~0.3 | 4,450 | 0.05~0.3 |
| 12 | 650 | 0.06~0.18 | 2,400 | 0.06~0.3 | 1,700 | 0.06~0.3 | 3,700 | 0.06~0.36 | 3,700 | 0.06~0.36 |
| 14 | 550 | 0.07~0.21 | 2,050 | 0.07~0.35 | 1,500 | 0.07~0.35 | 3,200 | 0.07~0.42 | 3,200 | 0.07~0.42 |
| 16 | 500 | 0.08~0.24 | 1,800 | 0.08~0.36 | 1,300 | 0.08~0.36 | 2,800 | 0.08~0.48 | 2,800 | 0.08~0.48 |
| 18 | 450 | 0.09~0.27 | 1,600 | 0.09~0.38 | 1,150 | 0.09~0.38 | 2,500 | 0.09~0.54 | 2,500 | 0.09~0.54 |
| 20 | 400 | 0.1~0.3 | 1,450 | 0.1~0.4 | 1,050 | 0.1~0.4 | 2,250 | 0.1~0.6 | 2,250 | 0.1~0.6 |

- 上表は、ワーク上面が平坦でフライス前加工がしてあること、水溶性切削油剤の使用を前提としたものです。
- 不水溶性切削油剤または20倍を超える水溶性切削油剤の時は、切削速度を30%下げてください。
- 機械、ホルダは剛性のある精度の高いものをご使用下さい。
- ご使用の際は工具突出し量を必要最小限で保持下さい。
- 加工物の形状や保持方法の状況によって切削条件を調整下さい。
- ドリル取り付け時の刃先の振れは、0.01mm以下に抑えて下さい。
- 斜面部への加工の場合は、加工面傾斜角度(β)により、回転速度、送り量を調整下さい。
 ・加工面傾斜角度(β)が30°以下の斜面への加工では、
 上表の送り量40~60%を目安にご使用下さい。
 ・加工面傾斜角度(β)が30°を超える斜面への加工では、
 上表の回転速度60~80%、送り量40~60%を目安にご使用下さい。
- 下穴がある時は、切りくずが分断されませんのでステップ加工を行って下さい。
- 加工穴の位置決め精度を必要とする場合は、加工精度に合わせて上記回転速度、送り量を調整下さい。
- φ5以下のサイズはスピンドル回転精度が良好な機械でご使用下さい。
- 機械回転数が上記切削速度を満たさない場合、なるべく高回転でご使用下さい。なお、この場合、耐久が落ちる可能性があります。



- Water-soluble coolant may be applied as noted in the above table only under the premise that the work surface has been flattened by milling.
- When using non-water-soluble or water-soluble coolant (over 20 times dilution), reduce cutting speed by 30%.
- Use a rigid and precise machine and holder.
- Please minimize overhang length as much as possible during machining.
- Adjust the rotational speed and the feed in accordance with conditions such as the machining shape, machine rigidity, or work holding.
- Please set up the drill so that the runout of the cutting edge is under 0.01 mm.
- When machining an inclined plane, adjust the rotational speed and the feed in accordance with the angle of the incline (β).
 ・ When the machining incline angle (β) is less than 30°, please reduce the feed to 40-60%.
 ・ When the machining incline angle (β) is over 30°, please reduce the speed to 60-80%, the feed to 40-60%.
- Please use step drilling in pre-drilled holes to improve cutting chip separation.
- If it is necessary to ensure the locating precision of the hole to be machined, adjust the rotational speed and the feed as indicated above (in accordance with the machining precision requirement).
- For sizes under φ5, please use a machine with good spindle rotation accuracy.
- If the machine in use cannot meet the specified values above, please set the rotation speed as high as possible. In this case, please note that durability may decrease.

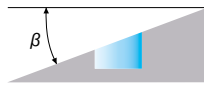


ADFO-3D・ADFO-NC

| 被削材 Work Material | 低炭素鋼・軟鋼・合金鋼 Low Carbon Steel・Mild Steel・Alloy Steel (C<0.3%) SS400・SCM ~710N/mm ² | | 炭素鋼 Carbon Steel S35C・S50C ~210HB ~710N/mm ² | | 合金鋼 Alloy Steel SCM・SCR・SNCM 28~35HRC 900~1,100N/mm ² | | プラスチック金型用鋼 Plastic Mold Steel NAK80 ~40HRC | | ステンレス鋼 Stainless Steel SUS304 480~800N/mm ² | |
|--------------------------|--|------------------------------|---|------------------------------|--|------------------------------|---|------------------------------|---|------------------------------|
| | 80~120m/min | | 80~120m/min | | 50~90m/min | | 20~40m/min | | 40~60m/min | |
| 直径 Drill Dia. (mm) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) |
| 3 | 10,600 | 0.045~0.09 | 10,600 | 0.045~0.09 | 7,450 | 0.045~0.09 | 3,200 | 0.045~0.06 | 5,300 | 0.045~0.09 |
| 4 | 8,000 | 0.045~0.12 | 8,000 | 0.045~0.12 | 5,550 | 0.045~0.12 | 2,400 | 0.045~0.08 | 4,000 | 0.045~0.12 |
| 6 | 5,300 | 0.06~0.18 | 5,300 | 0.06~0.18 | 3,700 | 0.06~0.18 | 1,600 | 0.06~0.12 | 2,650 | 0.06~0.18 |
| 8 | 4,000 | 0.08~0.24 | 4,000 | 0.08~0.24 | 2,800 | 0.08~0.24 | 1,200 | 0.08~0.16 | 2,000 | 0.08~0.24 |
| 10 | 3,200 | 0.1~0.3 | 3,200 | 0.1~0.3 | 2,250 | 0.1~0.3 | 950 | 0.1~0.2 | 1,600 | 0.1~0.3 |
| 12 | 2,650 | 0.12~0.36 | 2,650 | 0.12~0.36 | 1,850 | 0.12~0.36 | 800 | 0.12~0.24 | 1,350 | 0.12~0.36 |
| 14 | 2,250 | 0.14~0.42 | 2,250 | 0.14~0.42 | 1,600 | 0.14~0.42 | 700 | 0.14~0.28 | 1,150 | 0.14~0.42 |
| 16 | 2,000 | 0.16~0.48 | 2,000 | 0.16~0.48 | 1,400 | 0.16~0.48 | 600 | 0.16~0.32 | 1,000 | 0.16~0.48 |
| 18 | 1,750 | 0.18~0.54 | 1,750 | 0.18~0.54 | 1,250 | 0.18~0.54 | 550 | 0.18~0.36 | 900 | 0.18~0.54 |
| 20 | 1,600 | 0.2~0.6 | 1,600 | 0.2~0.6 | 1,100 | 0.2~0.6 | 500 | 0.2~0.4 | 800 | 0.2~0.6 |

| 被削材 Work Material | 特殊鋼・調質鋼 プリハードン鋼 Special Alloy Steel・Hardened Steel・ Prehardened Steel ~45HRC | | 鋳鉄 Cast Iron FC250 ~350N/mm ² | | ダクタイル鋳鉄 Ductile Cast Iron FCD600 400~600N/mm ² | | アルミニウム展伸材 Aluminum A5052・A7075 ~350N/mm ² | | アルミニウム合金鋳物 Aluminum Alloy AC4C・ADC 400~600N/mm ² | |
|--------------------------|--|------------------------------|---|------------------------------|--|------------------------------|---|------------------------------|--|------------------------------|
| | 20~30m/min | | 80~120m/min | | 60~100m/min | | 120~200m/min | | 120~200m/min | |
| 直径 Drill Dia. (mm) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) |
| 3 | 2,650 | 0.045~0.06 | 10,600 | 0.045~0.09 | 8,500 | 0.045~0.09 | 17,000 | 0.045~0.09 | 17,000 | 0.045~0.09 |
| 4 | 2,000 | 0.045~0.08 | 8,000 | 0.045~0.12 | 6,350 | 0.045~0.12 | 12,750 | 0.045~0.12 | 12,750 | 0.045~0.12 |
| 6 | 1,350 | 0.06~0.12 | 5,300 | 0.06~0.18 | 4,250 | 0.06~0.18 | 8,500 | 0.06~0.18 | 8,500 | 0.06~0.18 |
| 8 | 1,000 | 0.08~0.16 | 4,000 | 0.08~0.24 | 3,200 | 0.08~0.24 | 6,350 | 0.08~0.24 | 6,350 | 0.08~0.24 |
| 10 | 800 | 0.1~0.2 | 3,200 | 0.1~0.3 | 2,550 | 0.1~0.3 | 5,100 | 0.1~0.3 | 5,100 | 0.1~0.3 |
| 12 | 650 | 0.12~0.24 | 2,650 | 0.12~0.36 | 2,100 | 0.12~0.36 | 4,250 | 0.12~0.36 | 4,250 | 0.12~0.36 |
| 14 | 550 | 0.14~0.28 | 2,250 | 0.14~0.42 | 1,800 | 0.14~0.42 | 3,650 | 0.14~0.42 | 3,650 | 0.14~0.42 |
| 16 | 500 | 0.16~0.32 | 2,000 | 0.16~0.48 | 1,600 | 0.16~0.48 | 3,200 | 0.16~0.48 | 3,200 | 0.16~0.48 |
| 18 | 450 | 0.18~0.36 | 1,750 | 0.18~0.54 | 1,400 | 0.18~0.54 | 2,850 | 0.18~0.54 | 2,850 | 0.18~0.54 |
| 20 | 400 | 0.2~0.4 | 1,600 | 0.2~0.6 | 1,250 | 0.2~0.6 | 2,550 | 0.2~0.6 | 2,550 | 0.2~0.6 |

1. 上表は、ワーク上面が平坦でフライス前加工がしてあること、水溶性切削油剤の使用を前提としたものです。
2. 機械、ホルダは剛性のある精度の高いものをご使用下さい。
3. ご使用の際は工具突出し量を必要最小限で保持下さい。
4. 加工物の形状や保持方法の状況によって切削条件を調整下さい。
5. ドリル取り付け時の刃先の振れは、0.02mm以下に抑えて下さい。
6. 切削油剤は被削材に適したもので、発煙性の少ないものをご使用下さい。
7. 斜面部への加工の場合は、加工面傾斜角度(β)により、回転速度、送り量を調整下さい。
 ・加工面傾斜角度(β)が30°以下の斜面への加工では、
 上表の送り量40~60%を目安にご使用下さい。
 ・加工面傾斜角度(β)が30°を超える斜面への加工では、
 上表の回転速度60~80%、送り量40~60%を目安にご使用下さい。
8. 下穴がある時は、切りくずが分断されませんのでステップ加工を行って下さい。
9. 加工穴の位置決め精度を必要とする場合は、加工精度に合わせて上記回転速度、送り量を調整下さい。
10. マグネシウム合金切削において、切削油剤を使用する場合は切削油剤メーカーの推奨するものを必ずご使用下さい。また、切りくずの処理・管理にご注意下さい。発火の恐れがあります。



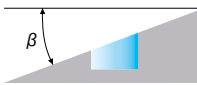
1. Water-soluble coolant may be applied as noted in the above table only under the premise that the work surface has been flattened by milling.
2. Use a rigid and precise machine and holder.
3. Please minimize overhang length as much as possible during machining.
4. Adjust the rotational speed and the feed in accordance with conditions such as the machining shape, machine rigidity, or work holding.
5. Please set up the drill so that the runout of the cutting edge is under 0.02 mm.
6. Please select a cutting fluid that is most suitable for the work material with minimal smoke formation.
7. When machining an inclined plane, adjust the rotational speed and the feed in accordance with the angle of the incline (β).
 ・ When the machining incline angle (β) is less than 30°, please reduce the feed to 40-60%.
 ・ When the machining incline angle (β) is over 30°, please reduce the speed to 60-80%, the feed to 40-60%.
8. Please use step drilling in pre-drilled holes to improve cutting chip separation.
9. If it is necessary to ensure the locating precision of the hole to be machined, adjust the rotational speed and the feed as indicated above (in accordance with the machining precision requirement).
10. Please always use the appropriate cutting fluid recommended by the cutting fluid manufacturer in the machining of magnesium alloys. Be cautious with the cutting chips as they are highly flammable and may pose a serious fire risk if not properly handled.

ADFLS-2D

| 被削材 Work Material | 低炭素鋼・軟鋼・合金鋼 Low Carbon Steel · Mild Steel · Alloy Steel (C<0.3%) SS400 · SCM ~710N/mm ² | | 炭素鋼 Carbon Steel S35C · S50C ~210HB ~710N/mm ² | | 合金鋼 Alloy Steel SCM · SCR · SNCM 28 ~ 35HRC 900 ~ 1,100N/mm ² | | プラスチック金型用鋼 Plastic Mold Steel NAK80 ~40HRC | |
|--------------------------|--|------------------------------|---|------------------------------|--|------------------------------|---|------------------------------|
| | 60 ~ 100m/min | | 60 ~ 100m/min | | 30 ~ 90m/min | | 20 ~ 40m/min | |
| 直径 Drill Dia. (mm) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) |
| 3 | 8,500 | 0.045 ~ 0.075 | 8,500 | 0.045 ~ 0.075 | 6,350 | 0.045 ~ 0.075 | 3,200 | 0.045 ~ 0.06 |
| 4 | 6,350 | 0.06 ~ 0.1 | 6,350 | 0.06 ~ 0.1 | 4,750 | 0.06 ~ 0.1 | 2,400 | 0.06 ~ 0.08 |
| 6 | 4,250 | 0.09 ~ 0.15 | 4,250 | 0.09 ~ 0.15 | 3,200 | 0.09 ~ 0.15 | 1,600 | 0.09 ~ 0.12 |
| 8 | 3,200 | 0.12 ~ 0.2 | 3,200 | 0.12 ~ 0.2 | 2,400 | 0.12 ~ 0.2 | 1,200 | 0.12 ~ 0.16 |
| 10 | 2,550 | 0.15 ~ 0.25 | 2,550 | 0.15 ~ 0.25 | 1,900 | 0.15 ~ 0.25 | 950 | 0.15 ~ 0.2 |
| 12 | 2,100 | 0.18 ~ 0.3 | 2,100 | 0.18 ~ 0.3 | 1,600 | 0.18 ~ 0.3 | 800 | 0.18 ~ 0.24 |
| 14 | 1,800 | 0.21 ~ 0.35 | 1,800 | 0.21 ~ 0.35 | 900 | 0.21 ~ 0.35 | 700 | 0.21 ~ 0.28 |
| 16 | 1,600 | 0.24 ~ 0.4 | 1,600 | 0.24 ~ 0.4 | 800 | 0.24 ~ 0.4 | 600 | 0.24 ~ 0.32 |
| 18 | 1,400 | 0.27 ~ 0.45 | 1,400 | 0.27 ~ 0.45 | 700 | 0.27 ~ 0.45 | 550 | 0.27 ~ 0.36 |
| 20 | 1,250 | 0.3 ~ 0.5 | 1,250 | 0.3 ~ 0.5 | 650 | 0.3 ~ 0.5 | 500 | 0.3 ~ 0.4 |

| 被削材 Work Material | 特殊鋼・調質鋼 プリハードン鋼 Special Alloy Steel · Hardened Steel · Prehardened Steel ~45HRC | | 鋳鉄 Cast Iron FC250 ~350N/mm ² | | ダクタイル鋳鉄 Ductile Cast Iron FCD600 400 ~ 600N/mm ² | | アルミニウム展伸材 Aluminum A5052 · A7075 ~350N/mm ² | | アルミニウム合金鋳物 Aluminum Alloy AC4C · ADC 400 ~ 600N/mm ² | |
|--------------------------|---|------------------------------|---|------------------------------|--|------------------------------|---|------------------------------|--|------------------------------|
| | 20 ~ 30m/min | | 60 ~ 120m/min | | 50 ~ 80m/min | | 80 ~ 200m/min | | 80 ~ 200m/min | |
| 直径 Drill Dia. (mm) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) | 回転速度 Speed (min ⁻¹) | 送り量 Feed Rate (mm/rev) |
| 3 | 2,650 | 0.03 ~ 0.06 | 9,550 | 0.06 ~ 0.09 | 6,900 | 0.06 ~ 0.09 | 14,850 | 0.015 ~ 0.09 | 14,850 | 0.015 ~ 0.09 |
| 4 | 2,000 | 0.04 ~ 0.08 | 7,150 | 0.08 ~ 0.12 | 5,150 | 0.08 ~ 0.12 | 11,150 | 0.02 ~ 0.12 | 11,150 | 0.02 ~ 0.12 |
| 6 | 1,350 | 0.06 ~ 0.12 | 4,750 | 0.12 ~ 0.18 | 3,450 | 0.12 ~ 0.18 | 7,450 | 0.03 ~ 0.18 | 7,450 | 0.03 ~ 0.18 |
| 8 | 1,000 | 0.08 ~ 0.16 | 3,600 | 0.16 ~ 0.24 | 2,600 | 0.16 ~ 0.24 | 5,550 | 0.04 ~ 0.24 | 5,550 | 0.04 ~ 0.24 |
| 10 | 800 | 0.1 ~ 0.2 | 2,850 | 0.2 ~ 0.3 | 2,050 | 0.2 ~ 0.3 | 4,450 | 0.05 ~ 0.3 | 4,450 | 0.05 ~ 0.3 |
| 12 | 650 | 0.12 ~ 0.24 | 2,400 | 0.24 ~ 0.36 | 1,700 | 0.24 ~ 0.36 | 3,700 | 0.06 ~ 0.36 | 3,700 | 0.06 ~ 0.36 |
| 14 | 550 | 0.14 ~ 0.28 | 2,050 | 0.28 ~ 0.42 | 1,500 | 0.28 ~ 0.42 | 3,200 | 0.07 ~ 0.42 | 3,200 | 0.07 ~ 0.42 |
| 16 | 500 | 0.16 ~ 0.32 | 1,800 | 0.32 ~ 0.48 | 1,300 | 0.32 ~ 0.48 | 2,800 | 0.08 ~ 0.48 | 2,800 | 0.08 ~ 0.48 |
| 18 | 450 | 0.18 ~ 0.36 | 1,600 | 0.36 ~ 0.54 | 1,150 | 0.36 ~ 0.54 | 2,500 | 0.09 ~ 0.54 | 2,500 | 0.09 ~ 0.54 |
| 20 | 400 | 0.2 ~ 0.4 | 1,450 | 0.4 ~ 0.6 | 1,050 | 0.4 ~ 0.6 | 2,250 | 0.1 ~ 0.6 | 2,250 | 0.1 ~ 0.6 |

1. 平面加工の際は、径より大きいセンタリング穴が必要です。
2. 上表は、ワーク上面が平坦でフライス前加工がしてあること、水溶性切削油剤の使用を前提としたものです。
3. 不溶性切削油剤または20倍を超える水溶性切削油剤の時は、切削速度を30%下げてください。
4. 機械、ホルダは剛性のある精度の高いものをご使用下さい。
5. ご使用の際は工具突出し量を必要最小限で保持下さい。
6. 加工物の形状や保持方法の状況によって切削条件を調整下さい。
7. ドリル取り付け時の刃先の振れは、0.01mm以下に抑えて下さい。
8. 斜面部への加工の場合は、加工面傾斜角度(β)により、回転速度、送り量を調整下さい。
 - ・加工面傾斜角度(β)が30°以下の斜面への加工では、上表の送り量40~60%を目安にご使用下さい。
 - ・加工面傾斜角度(β)が30°を超える斜面への加工では、上表の回転速度60~80%、送り量40~60%を目安にご使用下さい。
9. 下穴がある時は、切りくずが分断されませんのでステップ加工を行って下さい。
10. 加工穴の位置決め精度を必要とする場合は、加工精度に合わせて上記回転速度、送り量を調整下さい。



1. To process flat surfaces, prior center-drilling with a larger diameter is required.
2. Water-soluble coolant may be applied as noted in the above table only under the premise that the work surface has been flattened by milling.
3. When using non-water-soluble or water-soluble coolant (over 20 times dilution), reduce cutting speed by 30%.
4. Use a rigid and precise machine and holder.
5. Please minimize overhang length as much as possible during machining.
6. Adjust the rotational speed and the feed in accordance with conditions such as the machining shape, machine rigidity, or work holding.
7. Please set up the drill so that the runout of the cutting edge is under 0.01 mm.
8. When machining an inclined plane, adjust the rotational speed and the feed in accordance with the angle of the incline (β).
 - ・ When the machining incline angle (β) is less than 30°, please reduce the feed to 40-60%.
 - ・ When the machining incline angle (β) is over 30°, please reduce the speed to 60-80%, the feed to 40-60%.
9. Please use step drilling in pre-drilled holes to improve cutting chip separation.
10. If it is necessary to ensure the locating precision of the hole to be machined, adjust the rotational speed and the feed as indicated above (in accordance with the machining precision requirement).



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小型自動旋盤対応型
ADFO-NC

切削条件表
Cutting Conditions



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安全にお使いいただくために

- 工具を使用する時は、破損する危険があるので、必ずカバー・保護眼鏡・安全靴等を使用して下さい。
• 切れ刃は素手で触らないで下さい。
• 切りくずは素手で触らないで下さい。
• 工具の切れ味が悪くなったら使用を中止して下さい。
• 異常音・異常振動が発生したら、直ちに使用を中止して下さい。
• 工具には手を加えないで下さい。
• 加工前に工具の寸法確認を行って下さい。

Safe use of cutting tools

- Use safety cover, safety glasses and safety shoes during operation.
• Do not touch cutting edges with bare hands.
• Do not touch cutting chips with bare hands. Chips will be hot after cutting.
• Stop cutting when the tool becomes dull.
• Stop cutting operation immediately if you hear any abnormal cutting sounds.
• Do not modify tools.
• Please use appropriate tools for the operation. Check dimensions to ensure proper selection.

OSG代理店

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