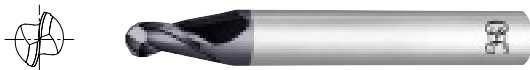


超硬テーパボールシリーズ Carbide Taper Ball nose Series

FXコート台形ランナカッタ(2刃)

FX Coated • Trapezoidal Runner Cutter (2 Flutes • Ball-end)

FX-TBRC



台形ランナ加工用としてご使用いただけるテーパボールエンドミルです。

Taper ball end mill for trapezoidal runner applications.

●マークの説明はP1をご覧ください。See page 1 for explanation of icons.



±5'

(単位:mm) (Unit:mm)

| ツール No.<br>EDP No. | ボール半径×刃部テーパ角<br>R×θ° | 全長<br>L | 刃長<br>ℓ | シャン径<br>Ds | 在庫<br>Stock | 標準価格<br>(Yen) |
|--------------------|----------------------|---------|---------|------------|-------------|---------------|
| 8527021            | R0.5 × 10°           | 45      | 2       | 4          | D           | 13,700        |
| 8527061            | R0.5 × 15°           |         | 13,700  |            |             |               |
| 8527022            | R0.75 × 10°          |         | 13,700  |            |             |               |
| 8527062            | R0.75 × 15°          |         | 13,700  |            |             |               |
| 8527023            | R1 × 10°             | 50      | 4       | 6          |             | 13,700        |
| 8527063            | R1 × 15°             |         | 16,500  |            |             |               |
| 8527024            | R1.25 × 10°          |         | 14,900  |            |             |               |
| 8527064            | R1.25 × 15°          |         | 14,900  |            |             |               |
| 8527025            | R1.5 × 10°           | 60      | 6       | 8          |             | 17,400        |
| 8527065            | R1.5 × 15°           |         | 18,500  |            |             |               |
| 8527026            | R1.75 × 10°          |         | 18,200  |            |             |               |
| 8527066            | R1.75 × 15°          |         | 19,300  |            |             |               |
| 8527027            | R2 × 10°             | 70      | 8       | 10         | 20,300      |               |
| 8527067            | R2 × 15°             |         | 24,700  |            |             |               |
| 8527028            | R2.5 × 10°           |         | 23,600  |            |             |               |
| 8527068            | R2.5 × 15°           |         | 28,400  |            |             |               |
| 8527029            | R3 × 10°             | 75      | 12      | 12         | 26,300      |               |
| 8527069            | R3 × 15°             |         |         |            | 32,000      |               |

切削油剤はP830をご参照下さい。Cutting Fluid: Please refer to P830.

超硬テーパボールシリーズ Carbide Taper Ball nose Series

FXコート多刃リブ溝用

FX Coated • Multiple Flutes for Rib processing

FXS-RB-TPB



リブ溝の高効率加工を可能とした高剛性テーパエンドミルです。自由曲面加工用としてもご使用いただけます。

Rigid taper end mill for highly productive rib processing. Can also be used as a surface milling tool.

●マークの説明はP1をご覧ください。See page 1 for explanation of icons.



±5'

(単位:mm) (Unit:mm)

| ツール No.<br>EDP No. | ボール半径×刃部テーパ角×刃長<br>R×θ°×ℓ | 全長<br>L | シャン径<br>Ds | 大端径<br>D1 | 在庫<br>Stock | 標準価格<br>(Yen) |        |        |
|--------------------|---------------------------|---------|------------|-----------|-------------|---------------|--------|--------|
| 8509200            | R0.3 × 30' × 4            | 35      | 3          | 0.67      | C           | 16,700        |        |        |
| 8509201            | R0.3 × 30' × 6            |         |            | 0.7       |             | 16,700        |        |        |
| 8509600            | R0.3 × 45' × 4            |         |            | 0.7       |             | 16,700        |        |        |
| 8509601            | R0.3 × 45' × 6            |         |            | 0.75      |             | 16,700        |        |        |
| 8509300            | R0.3 × 1° × 4             |         |            | 0.73      |             | 16,700        |        |        |
| 8509301            | R0.3 × 1° × 6             |         |            | 0.8       |             | 16,700        |        |        |
| 8509400            | R0.3 × 1°30' × 4          |         |            | 0.79      |             | 16,700        |        |        |
| 8509401            | R0.3 × 1°30' × 6          |         |            | 0.9       |             | 16,700        |        |        |
| 8509500            | R0.3 × 2° × 4             |         |            | 0.86      |             | 16,700        |        |        |
| 8509501            | R0.3 × 2° × 6             |         |            | 1         |             | 16,700        |        |        |
| 8509211            | R0.4 × 30' × 6            |         |            | 45        |             | 4             | 0.9    | 16,700 |
| 8509212            | R0.4 × 30' × 8            |         |            |           |             |               | 0.93   | 16,700 |
| 8509213            | R0.4 × 30' × 10           | 0.97    | 16,700     |           |             |               |        |        |
| 8509611            | R0.4 × 45' × 6            | 35      | 3          |           | 0.95        |               | 16,700 |        |
| 8509612            | R0.4 × 45' × 8            | 45      | 4          |           | 1           |               | 16,700 |        |
| 8509613            | R0.4 × 45' × 10           | 45      | 4          |           | 1.05        |               | 16,700 |        |
| 8509311            | R0.4 × 1° × 6             | 35      | 3          |           | 1           |               | 16,700 |        |
| 8509312            | R0.4 × 1° × 8             | 45      | 4          |           | 1.07        |               | 16,700 |        |
| 8509313            | R0.4 × 1° × 10            | 45      | 4          |           | 1.14        |               | 16,700 |        |
| 8509411            | R0.4 × 1°30' × 6          | 35      | 3          |           | 1.09        |               | 16,700 |        |
| 8509412            | R0.4 × 1°30' × 8          | 45      | 4          |           | 1.2         |               | 16,700 |        |
| 8509413            | R0.4 × 1°30' × 10         | 45      | 4          |           | 1.3         |               | 16,700 |        |
| 8509511            | R0.4 × 2° × 6             | 35      | 3          | 1.19      | 16,700      |               |        |        |
| 8509512            | R0.4 × 2° × 8             | 45      | 4          | 1.33      | 16,700      |               |        |        |
| 8509513            | R0.4 × 2° × 10            |         |            | 1.47      | 16,700      |               |        |        |
| 8509221            | R0.5 × 30' × 6            |         |            | 1.1       | 16,700      |               |        |        |
| 8509222            | R0.5 × 30' × 8            |         |            | 1.13      | 16,700      |               |        |        |
| 8509223            | R0.5 × 30' × 10           |         |            | 1.17      | 16,700      |               |        |        |
| 8509224            | R0.5 × 30' × 12           |         |            | 1.2       | 17,100      |               |        |        |
| 8509225            | R0.5 × 30' × 16           |         |            | 50        | 1.27        | 17,300        |        |        |
| 8509622            | R0.5 × 45' × 8            |         |            | 45        | 4           | 1.2           | 16,700 |        |
| 8509623            | R0.5 × 45' × 10           |         |            |           |             | 1.25          | 16,700 |        |
| 8509624            | R0.5 × 45' × 12           |         |            |           |             | 1.3           | 17,100 |        |
| 8509321            | R0.5 × 1° × 6             |         |            |           |             | 45            | 1.19   | 16,700 |
| 8509322            | R0.5 × 1° × 8             |         |            |           |             | 1.26          | 16,700 |        |
| 8509323            | R0.5 × 1° × 10            | 1.33    | 16,700     |           |             |               |        |        |
| 8509324            | R0.5 × 1° × 12            | 1.4     | 17,100     |           |             |               |        |        |
| 8509325            | R0.5 × 1° × 16            | 50      | 1.54       |           |             | 17,300        |        |        |

切削油剤はP830をご参照下さい。Cutting Fluid: Please refer to P830.

形状寸法表  
超硬エンドミル  
CARBIDE END MILLS  
超硬テーパボールシリーズ  
CARBIDE TAPER BALL NOSE SERIES

| 被削材質<br>WORK MATERIAL | 炭素鋼<br>CARBON STEELS<br>プリハードン鋼<br>PREHARDENED STEELS<br>合金鋼<br>ALLOY STEELS<br>工具鋼<br>TOOL STEELS |        |        |        |        | プリハードン鋼<br>PREHARDENED STEELS<br>焼き入れ鋼<br>HARDENED STEELS |        | ステンレス鋼<br>STAINLESS STEELS | 鋳鉄<br>CAST IRON<br>ダクタイル鋳鉄<br>DUCTILE CAST IRON | 銅合金<br>COPPER ALLOYS | アルミ合金<br>ALUMINUM ALLOYS | グラファイト<br>GRAPHITE | チタン合金<br>TITANIUM ALLOYS | 耐熱合金<br>HEAT RESISTANT ALLOYS | プラスチック<br>PLASTIC |
|-----------------------|--|--------|--------|--------|--------|---|--------|----------------------------|---|----------------------|--------------------------|--------------------|--------------------------|-------------------------------|-------------------|
|                       | 製品記号<br>Abbreviation   | ~40HRC | ~45HRC | ~55HRC | ~60HRC | ~65HRC  | ~35HRC | ~350HB                     |   |                      |                          |                    |                          |                               |                   |
| FX-TBRC               | ○  | ○      | ○      | ○      | ○      | ○   | ○      | ○                          | ○   | ○                    | ○                        | ○                  | ○                        | ○                             |                   |
| FX-RB-TPB             | ○  | ○      | ○      | ○      | ○      | ○   | ○      | ○                          | ○   | ○                    | ○                        | ○                  | ○                        | ○                             |                   |

A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.

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



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**FXコート多刃リブ溝用**

FX Coated\*Multiple Flutes\*for Rib processing

**FXS-RB-TPB**

リブ溝の高性能加工を可能とした高剛性テーパエンドミルです。  
自由曲面加工用としてもご使用いただけます。  
Rigid taper end mill for highly productive rib processing. Can also be used as a surface milling tool.

●マークの説明はP1をご覧ください。 See page 1 for explanation of icons.



(単位: mm) (Unit:mm)

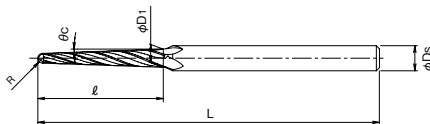
(単位: mm) (Unit:mm)

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| ツール No.<br>EDP No. | ボール半径×刃部テーパ半角×刃長<br>R×θc×ℓ | 全長<br>L | シャン径<br>Ds | 大端径<br>D1 | 在庫<br>Stock | 標準価格<br>(Yen) |
|--------------------|----------------------------|---------|------------|-----------|-------------|---------------|
| 8509421            | R0.5 × 1°30' × 6           | 45      | 4          | C         |             | 16,700        |
| 8509422            | R0.5 × 1°30' × 8           |         |            |           |             | 16,700        |
| 8509423            | R0.5 × 1°30' × 10          |         |            |           |             | 16,700        |
| 8509424            | R0.5 × 1°30' × 12          | 50      | 4          | C         |             | 17,100        |
| 8509425            | R0.5 × 1°30' × 16          |         |            |           |             | 17,300        |
| 8509521            | R0.5 × 2° × 6              |         |            |           |             | 16,700        |
| 8509522            | R0.5 × 2° × 8              | 45      | 4          | C         |             | 16,700        |
| 8509523            | R0.5 × 2° × 10             |         |            |           |             | 16,700        |
| 8509524            | R0.5 × 2° × 12             |         |            |           |             | 17,100        |
| 8509525            | R0.5 × 2° × 16             | 50      | 4          | C         |             | 17,300        |
| 8509231            | R0.6 × 30' × 6             |         |            |           |             | 16,700        |
| 8509232            | R0.6 × 30' × 8             |         |            |           |             | 16,700        |
| 8509233            | R0.6 × 30' × 10            | 45      | 4          | C         |             | 16,700        |
| 8509234            | R0.6 × 30' × 12            |         |            |           |             | 17,100        |
| 8509235            | R0.6 × 30' × 16            |         |            |           |             | 17,300        |
| 8509632            | R0.6 × 45' × 8             | 45      | 4          | C         |             | 16,700        |
| 8509633            | R0.6 × 45' × 10            |         |            |           |             | 16,700        |
| 8509634            | R0.6 × 45' × 12            |         |            |           |             | 17,100        |
| 8509635            | R0.6 × 45' × 16            | 50      | 4          | C         |             | 17,300        |
| 8509331            | R0.6 × 1° × 6              |         |            |           |             | 16,700        |
| 8509332            | R0.6 × 1° × 8              |         |            |           |             | 16,700        |
| 8509333            | R0.6 × 1° × 10             | 45      | 4          | C         |             | 16,700        |
| 8509334            | R0.6 × 1° × 12             |         |            |           |             | 17,100        |
| 8509335            | R0.6 × 1° × 16             |         |            |           |             | 17,300        |
| 8509431            | R0.6 × 1°30' × 6           | 45      | 4          | C         |             | 16,700        |
| 8509432            | R0.6 × 1°30' × 8           |         |            |           |             | 16,700        |
| 8509433            | R0.6 × 1°30' × 10          |         |            |           |             | 16,700        |
| 8509434            | R0.6 × 1°30' × 12          | 50      | 4          | C         |             | 17,100        |
| 8509435            | R0.6 × 1°30' × 16          |         |            |           |             | 17,300        |
| 8509531            | R0.6 × 2° × 6              |         |            |           |             | 16,700        |
| 8509532            | R0.6 × 2° × 8              | 45      | 4          | C         |             | 16,700        |
| 8509533            | R0.6 × 2° × 10             |         |            |           |             | 16,700        |
| 8509534            | R0.6 × 2° × 12             |         |            |           |             | 17,100        |
| 8509535            | R0.6 × 2° × 16             | 50      | 4          | C         |             | 17,300        |
| 8509242            | R0.75 × 30' × 8            |         |            |           |             | 17,100        |
| 8509243            | R0.75 × 30' × 10           |         |            |           |             | 17,100        |
| 8509244            | R0.75 × 30' × 12           | 45      | 4          | C         |             | 17,100        |
| 8509245            | R0.75 × 30' × 16           |         |            |           |             | 17,300        |
| 8509246            | R0.75 × 30' × 20           |         |            |           |             | 18,100        |
| 8509642            | R0.75 × 45' × 8            | 45      | 4          | C         |             | 17,100        |
| 8509643            | R0.75 × 45' × 10           |         |            |           |             | 17,100        |
| 8509644            | R0.75 × 45' × 12           |         |            |           |             | 17,100        |
| 8509645            | R0.75 × 45' × 16           | 50      | 4          | C         |             | 17,300        |

| ツール No.<br>EDP No. | ボール半径×刃部テーパ半角×刃長<br>R×θc×ℓ | 全長<br>L | シャン径<br>Ds | 大端径<br>D1 | 在庫<br>Stock | 標準価格<br>(Yen) |
|--------------------|----------------------------|---------|------------|-----------|-------------|---------------|
| 8509646            | R0.75 × 45' × 20           | 55      | 4          | C         |             | 18,100        |
| 8509342            | R0.75 × 1° × 8             | 45      | 4          | C         |             | 17,100        |
| 8509343            | R0.75 × 1° × 10            |         |            |           |             | 17,100        |
| 8509344            | R0.75 × 1° × 12            |         |            |           |             | 17,100        |
| 8509345            | R0.75 × 1° × 16            | 50      | 4          | C         |             | 17,300        |
| 8509346            | R0.75 × 1° × 20            |         |            |           |             | 18,100        |
| 8509442            | R0.75 × 1°30' × 8          |         |            |           |             | 17,100        |
| 8509443            | R0.75 × 1°30' × 10         | 45      | 4          | C         |             | 17,100        |
| 8509444            | R0.75 × 1°30' × 12         |         |            |           |             | 17,100        |
| 8509445            | R0.75 × 1°30' × 16         |         |            |           |             | 17,300        |
| 8509446            | R0.75 × 1°30' × 20         | 55      | 4          | C         |             | 18,100        |
| 8509542            | R0.75 × 2° × 8             |         |            |           |             | 17,100        |
| 8509543            | R0.75 × 2° × 10            |         |            |           |             | 17,100        |
| 8509544            | R0.75 × 2° × 12            | 50      | 4          | C         |             | 17,100        |
| 8509545            | R0.75 × 2° × 16            |         |            |           |             | 17,300        |
| 8509546            | R0.75 × 2° × 20            |         |            |           |             | 18,100        |
| 8509252            | R0.8 × 30' × 8             | 45      | 4          | C         |             | 17,100        |
| 8509253            | R0.8 × 30' × 10            |         |            |           |             | 18,100        |
| 8509254            | R0.8 × 30' × 12            |         |            |           |             | 18,100        |
| 8509255            | R0.8 × 30' × 16            | 50      | 4          | C         |             | 18,100        |
| 8509256            | R0.8 × 30' × 20            |         |            |           |             | 18,100        |
| 8509652            | R0.8 × 45' × 8             |         |            |           |             | 17,100        |
| 8509653            | R0.8 × 45' × 10            | 45      | 4          | C         |             | 18,100        |
| 8509654            | R0.8 × 45' × 12            |         |            |           |             | 18,100        |
| 8509655            | R0.8 × 45' × 16            |         |            |           |             | 18,100        |
| 8509656            | R0.8 × 45' × 20            | 55      | 4          | C         |             | 18,100        |
| 8509352            | R0.8 × 1° × 8              |         |            |           |             | 17,100        |
| 8509353            | R0.8 × 1° × 10             |         |            |           |             | 18,100        |
| 8509354            | R0.8 × 1° × 12             | 45      | 4          | C         |             | 18,100        |
| 8509355            | R0.8 × 1° × 16             |         |            |           |             | 18,100        |
| 8509356            | R0.8 × 1° × 20             |         |            |           |             | 18,100        |
| 8509452            | R0.8 × 1°30' × 8           | 50      | 4          | C         |             | 17,100        |
| 8509453            | R0.8 × 1°30' × 10          |         |            |           |             | 18,100        |
| 8509454            | R0.8 × 1°30' × 12          |         |            |           |             | 18,100        |
| 8509455            | R0.8 × 1°30' × 16          | 55      | 4          | C         |             | 18,100        |
| 8509456            | R0.8 × 1°30' × 20          |         |            |           |             | 18,100        |
| 8509552            | R0.8 × 2° × 8              |         |            |           |             | 17,100        |
| 8509553            | R0.8 × 2° × 10             | 45      | 4          | C         |             | 18,100        |
| 8509554            | R0.8 × 2° × 12             |         |            |           |             | 18,100        |
| 8509555            | R0.8 × 2° × 16             |         |            |           |             | 18,100        |
| 8509556            | R0.8 × 2° × 20             | 55      | 4          | C         |             | 18,100        |
| 8509262            | R0.9 × 30' × 8             |         |            |           |             | 18,100        |
| 8509263            | R0.9 × 30' × 10            |         |            |           |             | 18,100        |
| 8509264            | R0.9 × 30' × 12            | 45      | 4          | C         |             | 18,100        |
| 8509265            | R0.9 × 30' × 16            |         |            |           |             | 18,100        |
| 8509266            | R0.9 × 30' × 20            |         |            |           |             | 18,100        |

切削油剤はP830をご参照下さい。 Cutting Fluid: Please refer to P830.



| 炭素鋼<br>CARBON STEELS          | 合金鋼<br>ALLOY STEELS | プリハードン鋼<br>PREHARDENED STEELS | ステンレス鋼<br>STAINLESS STEELS | 鋳鉄<br>CAST IRON              | 銅合金<br>COPPER ALLOYS | アルミ合金<br>ALUMINUM ALLOYS | グラファイト<br>GRAPHITE | チタン合金<br>TITANIUM ALLOYS | 耐熱合金<br>HEAT RESISTANT ALLOYS | プラスチック<br>PLASTIC |
|-------------------------------|---------------------|-------------------------------|----------------------------|------------------------------|----------------------|--------------------------|--------------------|--------------------------|-------------------------------|-------------------|
| プリハードン鋼<br>PREHARDENED STEELS | 工具鋼<br>TOOL STEELS  | 焼き入れ鋼<br>HARDENED STEELS      |                            | ダクタイル鋳鉄<br>DUCTILE CAST IRON |                      |                          |                    |                          |                               |                   |
| ~40HRC                        |                     | ~45HRC ~55HRC ~60HRC ~65HRC   | ~35HRC                     | ~350HB                       |                      |                          |                    |                          |                               |                   |
| ○                             | ○                   | ○ ○ ○ ○                       | ○                          | ○                            | ○                    |                          |                    | ○                        |                               |                   |

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

形状寸法表  
SPECIFICATION CHART  
CARBIDE END MILLS  
超硬エンドミル  
CARBIDE TAPER BALL NOSE SERIES  
超硬テーパボールシリーズ

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超硬テーパボールシリーズ Carbide Taper Ball nose Series

FXコート多刃リブ溝用

FX Coated • Multiple Flutes • for Rib processing

FXS-RB-TPB



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(単位:mm) (Unit:mm)

| ツール No.<br>EDP No. | ボール半径×刃部テーパ半角×刃長<br>R×φc×ℓ | 全長<br>L | シャン径<br>Ds | 大端径<br>D1 | 在庫<br>Stock | 標準価格<br>(円) |
|--------------------|----------------------------|---------|------------|-----------|-------------|-------------|
| 8509264            | R0.9 × 30' × 12            | 45      |            | 1.99      |             | 18,100      |
| 8509265            | R0.9 × 30' × 16            | 50      |            | 2.06      |             | 18,100      |
| 8509266            | R0.9 × 30' × 20            | 55      |            | 2.13      |             | 18,100      |
| 8509662            | R0.9 × 45' × 8             |         |            | 1.99      |             | 18,100      |
| 8509663            | R0.9 × 45' × 10            | 45      |            | 2.04      |             | 18,100      |
| 8509664            | R0.9 × 45' × 12            |         |            | 2.09      |             | 18,100      |
| 8509665            | R0.9 × 45' × 16            | 50      |            | 2.2       |             | 18,100      |
| 8509666            | R0.9 × 45' × 20            | 55      |            | 2.3       |             | 18,100      |
| 8509362            | R0.9 × 1° × 8              |         |            | 2.05      |             | 18,100      |
| 8509363            | R0.9 × 1° × 10             | 45      |            | 2.12      |             | 18,100      |
| 8509364            | R0.9 × 1° × 12             |         |            | 2.19      |             | 18,100      |
| 8509365            | R0.9 × 1° × 16             | 50      |            | 2.34      |             | 18,100      |
| 8509366            | R0.9 × 1° × 20             | 55      |            | 2.47      |             | 18,100      |
| 8509462            | R0.9 × 1°30' × 8           |         |            | 2.17      |             | 18,100      |
| 8509463            | R0.9 × 1°30' × 10          | 45      |            | 2.28      |             | 18,100      |
| 8509464            | R0.9 × 1°30' × 12          |         |            | 2.38      |             | 18,100      |
| 8509465            | R0.9 × 1°30' × 16          | 50      |            | 2.59      |             | 18,100      |
| 8509466            | R0.9 × 1°30' × 20          | 55      |            | 2.8       |             | 18,100      |
| 8509562            | R0.9 × 2° × 8              |         |            | 2.3       |             | 18,100      |
| 8509563            | R0.9 × 2° × 10             | 45      | 4          | 2.44      | C           | 18,100      |
| 8509564            | R0.9 × 2° × 12             |         |            | 2.58      |             | 18,100      |
| 8509565            | R0.9 × 2° × 16             | 50      |            | 2.86      |             | 18,100      |
| 8509566            | R0.9 × 2° × 20             | 55      |            | 3.14      |             | 18,100      |
| 8509273            | R1 × 30' × 10              |         |            | 2.16      |             | 18,100      |
| 8509274            | R1 × 30' × 12              | 45      |            | 2.19      |             | 18,100      |
| 8509275            | R1 × 30' × 16              | 50      |            | 2.26      |             | 18,100      |
| 8509276            | R1 × 30' × 20              | 55      |            | 2.33      |             | 18,100      |
| 8509277            | R1 × 30' × 25              |         |            | 2.42      |             | 19,000      |
| 8509673            | R1 × 45' × 10              |         |            | 2.24      |             | 18,100      |
| 8509674            | R1 × 45' × 12              | 45      |            | 2.29      |             | 18,100      |
| 8509675            | R1 × 45' × 16              | 50      |            | 2.39      |             | 18,100      |
| 8509676            | R1 × 45' × 20              | 55      |            | 2.5       |             | 18,100      |
| 8509677            | R1 × 45' × 25              |         |            | 2.63      |             | 19,000      |
| 8509373            | R1 × 1° × 10               |         |            | 2.31      |             | 18,100      |
| 8509374            | R1 × 1° × 12               | 45      |            | 2.38      |             | 18,100      |
| 8509375            | R1 × 1° × 16               | 50      |            | 2.52      |             | 18,100      |
| 8509376            | R1 × 1° × 20               | 55      |            | 2.66      |             | 18,100      |
| 8509377            | R1 × 1° × 25               |         |            | 2.84      |             | 19,000      |
| 8509473            | R1 × 1°30' × 10            | 45      |            | 2.47      |             | 18,100      |

リブ溝の高効率加工を可能とした高剛性テーパエンドミルです。自由曲面加工用としてもご利用いただけます。

Rigid taper end mill for highly productive rib processing. Can also be used as a surface milling tool.

●マークの説明はP1をご覧ください。 See page 1 for explanation of icons.

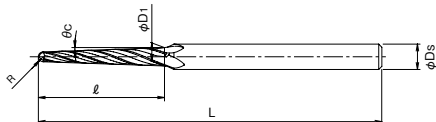


±5'

(単位:mm) (Unit:mm)

| ツール No.<br>EDP No. | ボール半径×刃部テーパ半角×刃長<br>R×φc×ℓ | 全長<br>L | シャン径<br>Ds | 大端径<br>D1 | 在庫<br>Stock | 標準価格<br>(円) |
|--------------------|----------------------------|---------|------------|-----------|-------------|-------------|
| 8509474            | R1 × 1°30' × 12            | 45      |            | 2.58      |             | 18,100      |
| 8509475            | R1 × 1°30' × 16            | 50      |            | 2.79      | C           | 18,100      |
| 8509476            | R1 × 1°30' × 20            |         |            | 3         |             | 18,100      |
| 8509477            | R1 × 1°30' × 25            | 55      |            | 3.26      |             | 19,000      |
|                    | R1 × 1°30' × 30            | 60      | 4          | 3.52      | □           |             |
| 8509573            | R1 × 2° × 10               |         |            | 2.63      |             | 18,100      |
| 8509574            | R1 × 2° × 12               | 45      |            | 2.77      |             | 18,100      |
| 8509575            | R1 × 2° × 16               | 50      |            | 3.05      | C           | 18,100      |
| 8509576            | R1 × 2° × 20               | 55      |            | 3.33      |             | 18,100      |
| 8509577            | R1 × 2° × 25               |         |            | 3.68      |             | 19,000      |
|                    | R1 × 2° × 30               | 60      | 6          | 4.03      | □           |             |
| 8509283            | R1.25 × 30' × 10           |         |            | 2.65      |             | 19,300      |
| 8509284            | R1.25 × 30' × 12           | 45      |            | 2.69      |             | 19,300      |
| 8509285            | R1.25 × 30' × 16           | 50      |            | 2.76      |             | 19,300      |
| 8509286            | R1.25 × 30' × 20           | 55      |            | 2.83      |             | 19,300      |
| 8509287            | R1.25 × 30' × 25           |         |            | 2.91      |             | 20,600      |
| 8509683            | R1.25 × 45' × 10           |         |            | 2.73      |             | 19,300      |
| 8509684            | R1.25 × 45' × 12           | 45      |            | 2.78      |             | 19,300      |
| 8509685            | R1.25 × 45' × 16           | 50      |            | 2.89      |             | 19,300      |
| 8509686            | R1.25 × 45' × 20           | 55      |            | 2.99      |             | 19,300      |
| 8509687            | R1.25 × 45' × 25           |         |            | 3.12      | C           | 20,600      |
| 8509383            | R1.25 × 1° × 10            |         |            | 2.81      |             | 19,300      |
| 8509384            | R1.25 × 1° × 12            | 45      | 4          | 2.88      |             | 19,300      |
| 8509385            | R1.25 × 1° × 16            | 50      |            | 3.02      |             | 19,300      |
| 8509386            | R1.25 × 1° × 20            | 55      |            | 3.16      |             | 19,300      |
| 8509387            | R1.25 × 1° × 25            |         |            | 3.33      |             | 20,600      |
| 8509483            | R1.25 × 1°30' × 10         |         |            | 2.96      |             | 19,300      |
| 8509484            | R1.25 × 1°30' × 12         | 45      |            | 3.06      |             | 19,300      |
| 8509485            | R1.25 × 1°30' × 16         | 50      |            | 3.27      |             | 19,300      |
| 8509486            | R1.25 × 1°30' × 20         | 55      |            | 3.48      |             | 19,300      |
| 8509487            | R1.25 × 1°30' × 25         |         |            | 3.74      |             | 20,600      |
|                    | R1.25 × 1°30' × 30         | 60      | 6          | 4.01      | □           |             |
| 8509583            | R1.25 × 2° × 10            |         |            | 3.11      |             | 19,300      |
| 8509584            | R1.25 × 2° × 12            | 45      | 4          | 3.25      |             | 19,300      |
| 8509585            | R1.25 × 2° × 16            | 50      |            | 3.53      | C           | 19,300      |
| 8509586            | R1.25 × 2° × 20            | 55      |            | 3.81      |             | 19,300      |
| 8509587            | R1.25 × 2° × 25            |         |            | 4.16      |             | 20,600      |
|                    | R1.25 × 2° × 30            | 60      | 6          | 4.51      | □           |             |

切削油剤はP830をご参照下さい。 Cutting Fluid:Please refer to P830.



| 炭素鋼<br>CARBON STEELS          | 合金鋼<br>ALLOY STEELS | プリハードン鋼<br>PREHARDENED STEELS | ステンレス鋼<br>STAINLESS STEELS | 鋳鉄<br>CAST IRON              | 銅合金<br>COPPER ALLOYS | アルミ合金<br>ALUMINUM ALLOYS | グラファイト<br>GRAPHITE | チタン合金<br>TITANIUM ALLOYS | 耐熱合金<br>HEAT RESISTANT ALLOYS | プラスチック<br>PLASTIC |
|-------------------------------|---------------------|-------------------------------|----------------------------|------------------------------|----------------------|--------------------------|--------------------|--------------------------|-------------------------------|-------------------|
| プリハードン鋼<br>PREHARDENED STEELS | 工具鋼<br>TOOL STEELS  | 焼き入れ鋼<br>HARDENED STEELS      |                            | ダクタイル鋳鉄<br>DUCTILE CAST IRON |                      |                          |                    |                          |                               |                   |
| ~40HRC                        | ~45HRC              | ~55HRC                        | ~60HRC                     | ~65HRC                       | ~35HRC               | ~350HB                   |                    |                          |                               |                   |
| ◎                             | ◎                   | ○                             | ○                          | ○                            | ◎                    | ○                        |                    | ○                        |                               |                   |

A, B, C, D=標準在庫品 A, B, C, D=Standard stock item.

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