

4GEOLS-R

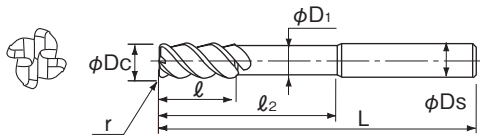
X's ミルジオ ラジアスロングシャンク
X's-mill Geo Radius Long Shank

- 金型や機械部品で深い位置の隅 R 加工に最適です。
- 深彫でも高精度加工が可能です。

This end mill meets accurate surface in deep side face, and is used for corner radius.



超硬 X's 45° h6 3 20
 工具材料 コーティング ねじれ角 シャンク許容差 外径範囲



LIST 9348
オーダ方法

切削条件 Milling Condition ▶▶▶ B-230

4GEOLS 外径 R コーナ半径 単位 (Unit) : mm / 円 (¥)

| 外径 Dc | コーナ半径 r | 刃長 l | 首下長さ l2 | 首径 D1 | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|-------|---------|------|---------|-------|------|----------|----------|------------|
| 3 | 0.2 | 4.5 | 12 | 2.9 | 60 | 6 | ● | 10,700 |
| 3 | 0.5 | 4.5 | 12 | 2.9 | 60 | 6 | ● | 10,700 |
| 4 | 0.2 | 6 | 16 | 3.8 | 60 | 6 | ● | 11,300 |
| 4 | 0.5 | 6 | 16 | 3.8 | 60 | 6 | ● | 11,300 |
| 5 | 0.2 | 7.5 | 20 | 4.8 | 60 | 6 | ● | 11,000 |
| 5 | 0.5 | 7.5 | 20 | 4.8 | 60 | 6 | ● | 11,000 |
| 6 | 0.3 | 9 | 24 | 5.8 | 60 | 6 | ● | 11,900 |
| 6 | 0.5 | 9 | 24 | 5.8 | 60 | 6 | ● | 11,900 |
| 7 | 0.3 | 10.5 | - | - | 80 | 6 | ● | 14,200 |
| 7 | 0.5 | 10.5 | - | - | 80 | 6 | ● | 14,200 |
| 8 | 0.5 | 12 | 34 | 7.7 | 80 | 8 | ● | 14,700 |
| 8 | 1 | 12 | 34 | 7.7 | 80 | 8 | ● | 14,700 |
| 9 | 0.5 | 13.5 | - | - | 90 | 8 | ● | 17,100 |
| 9 | 1 | 13.5 | - | - | 90 | 8 | ● | 17,100 |
| 10 | 0.5 | 15 | 42 | 9.7 | 100 | 10 | ● | 20,900 |
| 10 | 1 | 15 | 42 | 9.7 | 100 | 10 | ● | 20,900 |
| 10 | 1.5 | 15 | 42 | 9.7 | 100 | 10 | ● | 20,900 |
| 11 | 0.5 | 16.5 | - | - | 120 | 10 | ● | 26,000 |
| 11 | 1 | 16.5 | - | - | 120 | 10 | ● | 26,000 |
| 11 | 1.5 | 16.5 | - | - | 120 | 10 | ● | 26,000 |
| 12 | 0.5 | 18 | 50 | 11.7 | 120 | 12 | ● | 28,600 |
| 12 | 1 | 18 | 50 | 11.7 | 120 | 12 | ● | 28,600 |
| 12 | 1.5 | 18 | 50 | 11.7 | 120 | 12 | ● | 28,600 |
| 13 | 0.5 | 19.5 | - | - | 130 | 12 | ● | 31,500 |
| 13 | 1 | 19.5 | - | - | 130 | 12 | ● | 31,500 |
| 13 | 1.5 | 19.5 | - | - | 130 | 12 | ● | 31,500 |
| 16 | 1 | 24 | 66 | 15.5 | 160 | 16 | ● | 56,800 |
| 16 | 1.5 | 24 | 66 | 15.5 | 160 | 16 | ● | 56,800 |
| 16 | 2 | 24 | 66 | 15.5 | 160 | 16 | ● | 56,800 |
| 17 | 1 | 25.5 | - | - | 170 | 16 | ● | 62,500 |
| 17 | 1.5 | 25.5 | - | - | 170 | 16 | ● | 62,500 |
| 17 | 2 | 25.5 | - | - | 170 | 16 | ● | 62,500 |
| 20 | 1 | 30 | 82 | 19.5 | 200 | 20 | ● | 88,900 |
| 20 | 1.5 | 30 | 82 | 19.5 | 200 | 20 | ● | 88,900 |
| 20 | 2 | 30 | 82 | 19.5 | 200 | 20 | ● | 88,900 |

| 外径 (mm) Dc | | 許容差 (mm) Tolerance | |
|------------|----------|--------------------|----------------|
| を超え Above | 以下 Up to | 外径 Dc | r |
| | 3 | -0.014 ~ -0.028 | + 0.02 ~ -0.01 |
| | 6 | -0.020 ~ -0.038 | |
| | 10 | -0.025 ~ -0.047 | |
| | 10 | -0.032 ~ -0.059 | |

GSRE-R

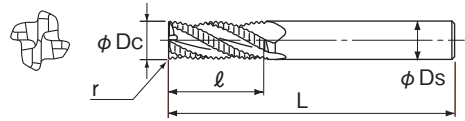
GS MILL ラフィングラジアス
GS MILL Roughing Radius

- 鋼からステンレスまでの隅 R や輪郭加工の高効率粗加工に最適です。

This end mill is suitable for high efficiency rough milling of corner R and profile milling from carbon steels to stainless steels.



超硬 GS 40° h6 6 20
 工具材料 コーティング ねじれ角 シャンク許容差 外径範囲



LIST 9436
オーダ方法

切削条件 Milling Condition ▶▶▶ B-233

商品記号 単位 (Unit) : mm / 円 (¥)

| 商品記号 CODE | 外径 Dc | コーナ半径 r | 刃長 l | 全長 L | シャンク径 Ds | 在庫 Stock | 参考価格 Price |
|----------------|-------|---------|------|------|----------|----------|------------|
| GSRE4060SF-R05 | 6 | 0.5 | 13 | 50 | 6 | ● | 12,960 |
| GSRE4060SF-R10 | 6 | 1 | 13 | 50 | 6 | ● | 12,960 |
| GSRE4080SF-R05 | 8 | 0.5 | 19 | 60 | 8 | ● | 15,120 |
| GSRE4080SF-R10 | 8 | 1 | 19 | 60 | 8 | ● | 15,120 |
| GSRE4100SF-R10 | 10 | 1 | 22 | 70 | 10 | ● | 17,160 |
| GSRE4100SF-R15 | 10 | 1.5 | 22 | 70 | 10 | ● | 17,160 |
| GSRE4100SF-R20 | 10 | 2 | 22 | 70 | 10 | ● | 17,160 |
| GSRE4120SF-R10 | 12 | 1 | 26 | 75 | 12 | ● | 19,800 |
| GSRE4120SF-R15 | 12 | 1.5 | 26 | 75 | 12 | ● | 19,800 |
| GSRE4120SF-R20 | 12 | 2 | 26 | 75 | 12 | ● | 19,800 |
| GSRE4160SF-R20 | 16 | 2 | 32 | 90 | 16 | ● | 32,280 |
| GSRE4160SF-R25 | 16 | 2.5 | 32 | 90 | 16 | ● | 32,280 |
| GSRE4160SF-R30 | 16 | 3 | 32 | 90 | 16 | ● | 32,280 |
| GSRE4160SF-R40 | 16 | 4 | 32 | 90 | 16 | ● | 32,280 |
| GSRE4200SF-R25 | 20 | 2.5 | 38 | 100 | 20 | ● | 48,000 |
| GSRE4200SF-R30 | 20 | 3 | 38 | 100 | 20 | ● | 48,000 |
| GSRE4200SF-R40 | 20 | 4 | 38 | 100 | 20 | ● | 48,000 |

| 低炭素鋼 軟鋼 | 炭素鋼 合金鋼 | プレハードン鋼 高合金鋼 | 調質鋼 | 焼入鋼 | |
|-----------------------|------------------------|--------------------|------------------------|------------------------------------------|----------|
| SS400, S10C ~150HB | S45C, SCM440 ~225HB | SUJ, NAK ~275HB | SKD, SKH 30 ~ 40HRC | Hardened Steels 40 ~ 55HRC 55 ~ 65HRC | |
| ◎ | ◎ | ◎ | ◎ | | |
| ステンレス鋼 | 耐熱合金 | 鑄鉄 | アルミ合金 | 銅・銅合金 | グラファイト |
| SUS304 | Ti/Ni Alloys | FC/FCD | AC/ADC | Cu | Graphite |
| ◎ | ○ | ◎ | ○ | ○ | |

◎:最適 Excellent ○:適用 Good ×:不適 Not Used 無印 (No mark):推奨しません Not recommended

AGミルラフィングラジアス(ハイス) B-208