

MSCZ440

规格
Size $\phi 1 \sim \phi 6$



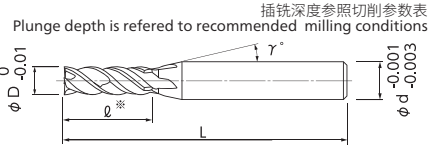
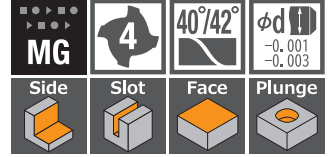
无限涂层 SC用高效率“Z”铣刀

共有62种规格
Total 62 sizes

MUGEN COATING 4-Flute High Efficient “Z” End Mill for Carbon Steels

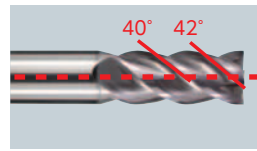
可对应碳素钢的高效率加工! 可进行插铣进刀到沟槽加工的连续加工

High efficient machining on carbon steels!
Continuous machining from plunging approach to slotting

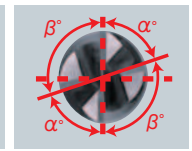


- 采用不等分割、不等螺旋角和提高刃部刚性的设计，可最大限度地抑制振刀，实现高效率加工!
- 采用新开发的特殊刀刃形状，可实现应对侧面加工、沟槽加工、插铣加工进刀的多种性能。
- 采用无限涂层，可进行延长刀具寿命的稳定加工。
- 共有62种规格，刃长有外径的2倍和3倍（部分规格）两种。
- Unequal flute spacing, unequal helix angle and high rigid end profile design to minimize chatter realize high efficient machining.
- New developed special edge profile realized multi-functional performance of side milling, slot milling and plunging approaches on carbon steels.
- Long time stable machining is realized by adopting MUGEN COATING.
- Total 62 sizes, some sizes line up with L/D=2 or 3.

※ 刃长比规格表中的数值长0.1mm。
The practical Length of Cut is 0.1mm longer than the specification table.



不等螺旋角
Unequal Helix Angle



不等分割
Unequal Flute Spacing

★ 返修对应（柄长须在15mm以上。详情请咨询本公司。）

| 产品代码 Code No. | (D)外径 Dia. | (ℓ)刃长 Length of Cut | (γ)颈角 Neck Taper Angle | (d)柄径 Shank Dia. | (L)全长 Overall Length | 定价(日元) Retail Price |
|------------------|---------------|------------------------|---------------------------|---------------------|-------------------------|------------------------|
| 08-00135-01020 | 1 | 2 | 12° | 4 | 50 | 4,700 |
| 08-00135-01030 | | 3 | 12° | 4 | 50 | 4,900 |
| 08-00135-01120 | 1.1 | 2.2 | 12° | 4 | 50 | 5,800 |
| 08-00135-01220 | 1.2 | 2.4 | 12° | 4 | 50 | 5,800 |
| 08-00135-01320 | 1.3 | 2.6 | 12° | 4 | 50 | 5,800 |
| 08-00135-01420 | 1.4 | 2.8 | 12° | 4 | 50 | 5,800 |
| 08-00135-01520 | 1.5 | 3 | 12° | 4 | 50 | 5,800 |
| 08-00135-01530 | | 4.5 | 12° | 4 | 50 | 6,200 |
| 08-00135-01620 | 1.6 | 3.2 | 12° | 6 | 50 | 6,400 |
| 08-00135-01720 | 1.7 | 3.4 | 12° | 6 | 50 | 6,400 |
| 08-00135-01820 | 1.8 | 3.6 | 12° | 6 | 50 | 6,400 |
| 08-00135-01920 | 1.9 | 3.8 | 12° | 6 | 50 | 6,400 |
| 08-00135-02020 | 2 | 4 | 12° | 6 | 50 | 6,400 |
| 08-00135-02030 | | 6 | 12° | 6 | 60 | 6,800 |
| 08-00135-02120 | 2.1 | 4.2 | 12° | 6 | 50 | 6,400 |
| 08-00135-02220 | 2.2 | 4.4 | 12° | 6 | 50 | 6,400 |
| 08-00135-02320 | 2.3 | 4.6 | 12° | 6 | 50 | 6,400 |
| 08-00135-02420 | 2.4 | 4.8 | 12° | 6 | 50 | 6,400 |
| 08-00135-02520 | 2.5 | 5 | 12° | 6 | 50 | 6,400 |
| 08-00135-02530 | | 7.5 | 12° | 6 | 60 | 6,900 |
| 08-00135-02620 | 2.6 | 5.2 | 12° | 6 | 50 | 6,400 |
| 08-00135-02720 | 2.7 | 5.4 | 12° | 6 | 50 | 6,400 |
| 08-00135-02820 | 2.8 | 5.6 | 12° | 6 | 50 | 6,400 |
| 08-00135-02920 | 2.9 | 5.8 | 12° | 6 | 50 | 6,400 |
| ★ 08-00135-03020 | 3 | 6 | 12° | 6 | 50 | 6,400 |
| ★ 08-00135-03030 | | 9 | 12° | 6 | 60 | 6,800 |
| ★ 08-00135-03120 | 3.1 | 6.2 | 12° | 6 | 50 | 6,700 |
| ★ 08-00135-03220 | 3.2 | 6.4 | 12° | 6 | 50 | 6,700 |
| ★ 08-00135-03320 | 3.3 | 6.6 | 12° | 6 | 50 | 6,700 |
| ★ 08-00135-03420 | 3.4 | 6.8 | 12° | 6 | 50 | 6,700 |

| 产品代码 Code No. | (D)外径 Dia. | (ℓ)刃长 Length of Cut | (γ)颈角 Neck Taper Angle | (d)柄径 Shank Dia. | (L)全长 Overall Length | 定价(日元) Retail Price |
|------------------|---------------|------------------------|---------------------------|---------------------|-------------------------|------------------------|
| ★ 08-00135-03520 | 3.5 | 7 | 12° | 6 | 50 | 6,700 |
| ★ 08-00135-03530 | | 10.5 | 12° | 6 | 60 | 7,300 |
| ★ 08-00135-03620 | 3.6 | 7.2 | 12° | 6 | 50 | 6,700 |
| ★ 08-00135-03720 | 3.7 | 7.4 | 12° | 6 | 50 | 6,700 |
| ★ 08-00135-03820 | 3.8 | 7.6 | 12° | 6 | 50 | 6,700 |
| ★ 08-00135-03920 | 3.9 | 7.8 | 12° | 6 | 50 | 6,700 |
| ★ 08-00135-04020 | 4 | 8 | 12° | 6 | 50 | 6,700 |
| ★ 08-00135-04030 | | 12 | 12° | 6 | 60 | 7,200 |
| ★ 08-00135-04120 | 4.1 | 8.2 | 12° | 6 | 50 | 7,200 |
| ★ 08-00135-04220 | 4.2 | 8.4 | 12° | 6 | 50 | 7,200 |
| ★ 08-00135-04320 | 4.3 | 8.6 | 12° | 6 | 50 | 7,200 |
| ★ 08-00135-04420 | 4.4 | 8.8 | 12° | 6 | 50 | 7,200 |
| ★ 08-00135-04520 | 4.5 | 9 | 12° | 6 | 50 | 7,200 |
| ★ 08-00135-04530 | | 13.5 | 12° | 6 | 60 | 7,700 |
| ★ 08-00135-04620 | 4.6 | 9.2 | 12° | 6 | 50 | 7,200 |
| ★ 08-00135-04720 | 4.7 | 9.4 | 12° | 6 | 50 | 7,200 |
| ★ 08-00135-04820 | 4.8 | 9.6 | 12° | 6 | 50 | 7,200 |
| ★ 08-00135-04920 | 4.9 | 9.8 | 12° | 6 | 50 | 7,200 |
| ★ 08-00135-05020 | 5 | 10 | 12° | 6 | 50 | 7,200 |
| ★ 08-00135-05030 | | 15 | 12° | 6 | 60 | 7,700 |
| ★ 08-00135-05120 | 5.1 | 10.2 | 12° | 6 | 50 | 7,800 |
| ★ 08-00135-05220 | 5.2 | 10.4 | 12° | 6 | 50 | 7,800 |
| ★ 08-00135-05320 | 5.3 | 10.6 | 12° | 6 | 50 | 7,800 |
| ★ 08-00135-05420 | 5.4 | 10.8 | 12° | 6 | 50 | 7,800 |
| ★ 08-00135-05520 | 5.5 | 11 | 12° | 6 | 50 | 7,800 |
| ★ 08-00135-05530 | | 16.5 | 12° | 6 | 60 | 8,500 |
| ★ 08-00135-05620 | 5.6 | 11.2 | 12° | 6 | 50 | 7,800 |
| ★ 08-00135-05720 | 5.7 | 11.4 | 12° | 6 | 50 | 7,800 |
| ★ 08-00135-05820 | 5.8 | 11.6 | 12° | 6 | 50 | 7,800 |
| ★ 08-00135-05920 | 5.9 | 11.8 | 12° | 6 | 50 | 7,800 |
| ★ 08-00135-06020 | 6 | 12 | - | 6 | 60 | 7,500 |
| ★ 08-00135-06030 | | 18 | - | 6 | 60 | 7,800 |

订购方法
How to Order
请指定MSCZ440 外径(D)×刃长(ℓ)。
When you order, indicate MSCZ440 (D)×(ℓ).
※(γ)为参考值。
※(γ) is reference value.

加工案例
Machining case
M-033

高效率加工
High Efficient
Milling