SH

Super High Hardness & Super High Speed Cutting

End Mill Series For High Hardness Steeles

高硬度鋼加工超長壽命
超高表面硬度・超高速加工
超高附著薄膜・超高硬度薄膜
震虎與 **Ion Bond** 技術合作開發

Long life for high hardness steel
Super high hardness, super high speed cutting
Super high adhesion coating & super high hardness coating

Super Coating SH

- 奈米複合塗層採用奈米晶格靶材，大幅改善附著效果，並且維持更亮的耐摩耗性。
- 非常出色地應用在塑膠模，尤其是在NAK鋼加工效率在2倍以上，並且在合金鋼NAK、碳鋼形成超長刀具壽命和高品質加工。
- 摩擦係數大幅改善，形成較低的切削溫度，所以乾式切削可行，超高速切削亦可行。
- Nano-composite coating which is improved the adhesion property without making the abrassive property lower by new coating mterial of nano-crystal.
- Excellent cutting is reached in machining plastic moulds, especially in NAK steels with over two times in machining efficiency. Long tool life and precision machining in carbon steels, alloy steels, NAK55 etc.
- Dry cutting applicable, because of less cutting heat by improving friction property very much and high speed cutting applicable.

Swiss & SPEED TIGER
Technological Cooperation

Unit/單位: mm

SH Super High Hardness & Super High Speed Cutting

End Mill Series For High Performace roughing

Super Hardness Steel Coating "SH" - SH Power Radius

產品特點 Features

採用先進奈米晶格SH塗層，擁有高附著性和高硬度
Developed NaNo SH Coating of high adhesion and high hardness is adopted.

長壽命 Long Tool Life • 工具壽命大大提昇 The tool life has drastically been improved
高精度 High Acuracy • 尺寸變化極少，精加工最適合 Less dimensional change, It's suitable for finishing

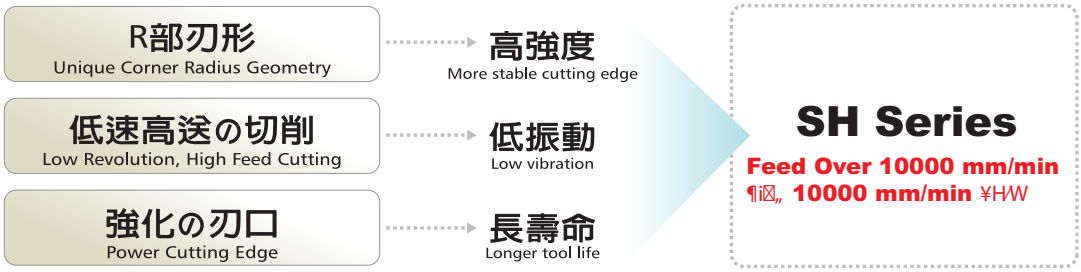
最新幾何刀刃形狀，擁有最高剛性Rx1保證，高精度R值
A new geometry is adopted to ensure rigidety and execllent R accuracy & specially cutting edge.

高能率 High Efficient • 強力重切削粗加工可行 A powerful roughing is available
高精度 High Acuracy • 高精度超精密加工 Highly accurate finish cutting is possible

- SH 系列強而有力的表現在形形色色的材質加工，從預熱鋼HRC45°到高硬度鋼HRC65°
- 特別應用在模具銑削 SH系列表現出無與倫比的超高速精度粗加工(超過一般圓鼻刀 3倍以上效率)
- R精度±0.01mm以下，尺寸摩耗小，高精密度精加工可行

- The tool exhibits it's power to various materials from pre-harden steel(45 HRC class to high hardness 65 HRC class)
- Especially for tp make possible the high performance roughing process on molds milling (3 times or more efficient than of a general radius endmill)
- R tolerance: ±0.01mm. Highly accurate finish cutting is possible

超高速進給、高能率切削三要素 Ultra high Feed cutting



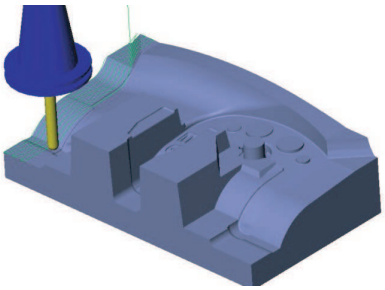
工具和模具製造業 Tool and mould manufacturing

高速加工機器
High speed machining
高剛性機器
Hard machining
乾式機器
Dry machining

增加生產力和競爭力的秘訣
Keys to productivity and competitivity

How ?

透過SH系列工具實現
Through SH tool performance



粗加工
Roughing
中加工
Semi-finishing
→ 減少人員並且免去管理
Maximum use of machines (3 x 8)
Reduced personnel without surveillance

精加工
Finishing
→ 縮短生產週期，提高生產表面品質
Cycles as short as possible
Quality of machined surface