

Metalworking Tools

萬事達切削刀具分類總覽



Solid Carbide Endmills



H700 for High Hardened steel 用於高硬鋼

- High Feed, HRC 50~70. 高進給側銑及端銑加工
- Low helix, multiple flutes design. 低螺旋、多刃設計
- SICO, NACO coating. 含矽塗層技術



H680 for High Hardened steel 用於高硬鋼

- High Precision, HRC 50~68. 高精度及高效率加工
- Radius tolerance $\pm 5\mu\text{m}$. R 公差 $\pm 5\mu\text{m}$
- SICO-TH coating. 含矽厚塗層技術



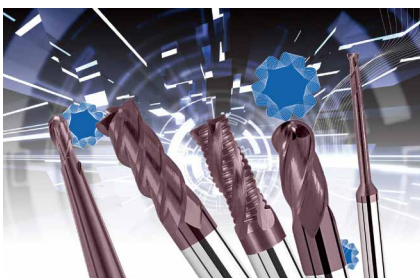
H650 for High Hardened steel 用於高硬鋼

- High Speed, HRC 40~65. 高速及高效率加工
- High rigidity design. 高剛性設計
- SICO, TOP ARCO coating. 含矽或含鉻塗層技術



H600 for Pre-Hardened steel 用於預硬鋼

- High Speed, HRC 35~58. 高速及高效率加工
- Wide range application. 廣泛的加工應用
- SICO coating. 含矽塗層技術



G550 for Pre-Hardened steel 用於預硬鋼

- General cutting, HRC 30~55. 一般加工
- High rigidity design. 高剛性設計
- UNICO coating. 高鋁鈦塗層技術



EUROS for Pre-Hardened steel 用於預硬鋼

- High Feed, HRC < 60. 高進給加工
- Tip with small chamfer or small radius. 刀尖小倒角或小圓角設計
- UNICO, SICO coating. 高鋁鈦或含矽塗層技術

Solid Carbide Endmills



M500 for Stainless and Pre-Hardened 用於不鏽鋼及預硬鋼

- General cutting, HRC < 50. 一般加工
- High rigidity design. 高剛性設計
- ARCO coating. 含鉻塗層技術



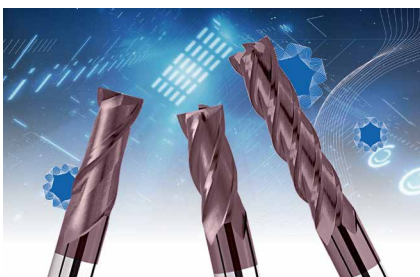
V530 Varix Endmill for High Temperature alloy 用於高溫合金

- High efficiency, HRC < 55. 高效益加工
- Unequal Flute Spacing and Variable Helix. 抗震不等型設計
- SICO-TH coating. 含矽厚塗層技術



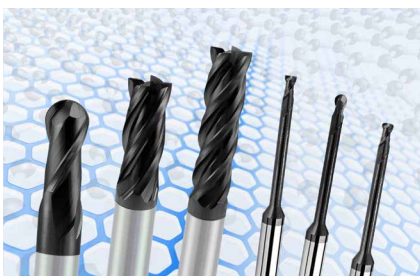
V470 Varix Endmill for Steel and Stainless 用於鋼料及不鏽鋼

- High efficiency, HRC < 40. 高效益、高去除率加工
- Unequal Flute Spacing. 抗震不等型設計
- UNICO coating. 高鋁鈦塗層技術



G450 for Steel and Alloy steel 用於鋼料及合金鋼

- General cutting, HRC < 48. 一般加工
- Wide range application. 廣泛的加工應用
- UNICO coating. 高鋁鈦塗層技術



A200 for Graphite 用於石墨

- General cutting. 一般加工
- Special edge treatment. 刀口特殊處理
- DIA diamond coating. 鑽石塗層技術



A100 for Aluminum 用於鋁

- High Speed. 高速加工
- Excellent chip evacuation design. 深溝槽易排屑設計
- CDLC coating available. 提供 CDLC 塗層可供選擇

Milling Inserts & Tools



CXXN 90° Shoulder Milling 90° 方肩銑削系列

- For small and large sized milling machines. 特別適用於大中小型機台
- Double sided insert, 6 cutting edges. 雙面刀片, 6 個切削角
- Use XNMX0403 or XNMX0806 insert. 使用 XNMX0403 或 XNMX0806 雙面刀片
- Endmill and modular types. 端銑刀桿, 鎖牙式銑刀頭與面銑刀盤可供選擇



CXSXN 45° Face Milling 平面銑削系列

- 2 types of double sided inserts fit in same pocket. 兩種雙面刀片, 可共用於相同刀盤
- Double sided, 8 or 16 cutting edges. 雙面刀片, 8 或 16 個切削角
- Use SNMX1205 or ONMX0505 insert. 使用 SNMX1205 或 ONMX0505 雙面刀片
- Face milling types. 面銑刀盤可供選擇



CXBAN High Feed Face Milling 高進給平面銑削系列

- High feed inserts allow lower cutting force. 高進給低切削阻力的刀片確保產能最大化
- Double sided insert, 4 cutting edges. 雙面刀片, 4 個切削角
- Use BNMX0603 or BNMX0904 insert. 使用 BNMX0603 或 BNMX0904 雙面刀片
- Endmill, modular and face milling types. 端銑刀桿, 鎖牙式銑刀頭與面銑刀盤可供選擇



CXWAN High Feed Face Milling 高進給平面銑削系列

- High rigidity cutting edge design. 雙面高剛性的切削角設計
- Double sided insert, 6 cutting edges. 雙面刀片, 6 個切削角
- Use WNMX09T3 or WNMX1305 insert. 使用 WNMX09T3 或 WNMX1305 雙面刀片
- Endmill and face milling types. 端銑刀桿與面銑刀盤可供選擇



CXLAN High Feed Face Milling 高進給平面銑削系列

- For small milling machines. 適合較低功率的小型機台使用
- Double sided insert, 4 cutting edges. 雙面刀片, 4 個切削角
- Use LNMX0303 insert. 使用 LNMX0303 雙面刀片
- Endmill, modular and face milling types. 端銑刀桿, 鎖牙式銑刀頭與面銑刀盤可供選擇

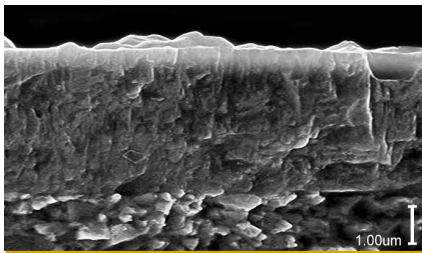


Milling Inserts 刀片系列

- More than 100 types to choose from. 超過 100 種刀片種類可供選擇
- Usable range include Shoulder, Face, Copy, High feed face, Helical, Disc and Chamfer Milling. 加工範圍包含方肩銑削、平面銑削、仿形銑削、高進給平面銑削、玉米銑削、三面刃銑削、倒角銑削

2018 New Turning Grades for Stainless steel

2018 年全新不鏽鋼車刀片材料



CX2545 & CX3545 grades with anti-sticky coating, it virtually eliminates the occurrence of built-up edge while retaining a secure cutting edge. Excellent anti-corrosive and wear resistance with higher reliability of tools, which provides users with reduced tool costs. It provides significantly longer tool life to conventional grades under the same cutting conditions. It's the first choice for Titanium and Stainless.

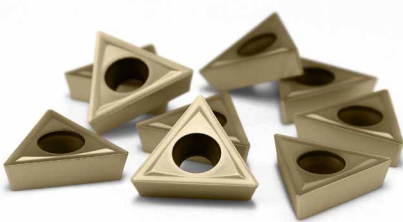
獨特的新世代抗沾黏CX2545 & CX3545塗層，有效減少切屑堆積，保持刀口鋒利。優異的抗腐蝕性與耐磨性，提供更高的刀具可靠性，降低刀具成本。在相同的切削環境下，對刀具壽命有著顯著的提升，更適用於鈦合金與不鏽鋼加工。

Turning Grades for General Purpose 泛用車刀片材料



Negative Types 負角車刀片

- 50+ types to choose from. 超過 50 種刀片種類可供選擇
- Thick coating layer structure for various applications. 針對多樣化加工提供厚塗層對應
- Longitudinal, profile and face turning machining. 適合端面，輪廓及外徑加工應用
- Usable range cover from medium to roughing. 加工範圍包含蓋中加工至粗加工

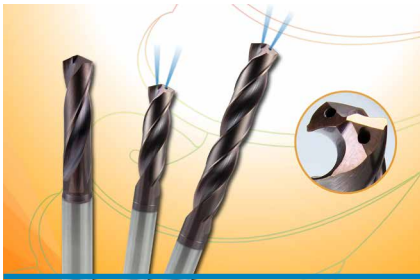


Positive Types 正角車刀片

- 25+ types to choose from. 超過 25 種刀片種類可供選擇
- Thick or normal coating layer structure for different applications. 針對不同加工應用面提供不同塗層對應
- Internal turning, profiling and boring machining. 適合內孔，輪廓及鏜孔加工應用
- Usable range cover from semi-finishing to roughing. 加工範圍包含半精加工至粗加工



Solid Carbide Drills



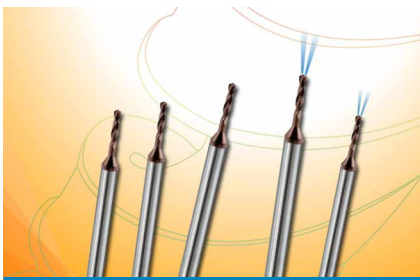
DPC & DPN for Steel 用於鋼料

- DPC Internal & DPN External coolant. 內冷及外冷鑽
- 3D, 5D, 7D drills. 3、5、7 倍徑鑽孔深度
- 140° Tip angle, Reinforced shank. 140° 鑽尖, 銑刀柄
- UNIX Coating. 高鋁鈦塗層技術



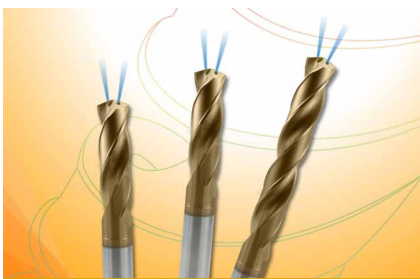
DDC for Steel 用於鋼料

- Internal coolant. 內冷深孔鑽
- 10D, 15D, 30D, 40D deep drills. 10、15、30、40 倍徑鑽孔深度
- 135° Tip angle, Reinforced shank. 135° 鑽尖, 銑刀柄
- UNIX Coating. 高鋁鈦塗層技術



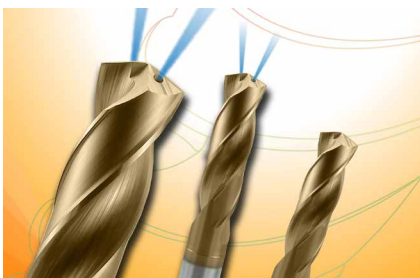
DLC & DLN for Steel 用於鋼料

- DLC Internal & DLN External coolant. 內冷及外冷小徑鑽
- 3D, 4D mini drills. 3、4 倍徑鑽孔深度
- 130° Tip angle, Reinforced shank. 130° 鑽尖, 銑刀柄
- UNIX Coating. 高鋁鈦塗層技術



DMC for Stainless steel 用於不鏽鋼

- Internal coolant. 內冷不鏽鋼鑽
- 3D, 5D drills. 3、5 倍徑鑽孔深度
- 140° Tip angle, Reinforced shank. 140° 鑽尖, 銑刀柄
- SINIX Coating. 含矽塗層技術



DHC & DHN for Pre-Hardened steel 用於預硬鋼

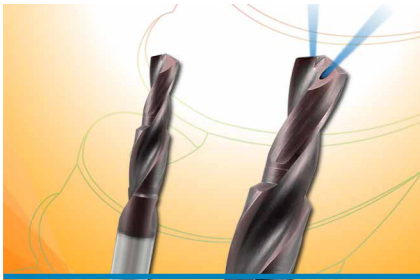
- DHC Internal & DHN External coolant. 內冷及外冷高硬鑽
- 3D, 5D drills, HRC < 50. 3、5 倍徑鑽孔深度
- 140° Tip angle, Reinforced shank. 140° 鑽尖, 銑刀柄
- SINIX Coating. 含矽塗層技術



DGN for Steel 用於鋼料

- External coolant. 外冷鑽
- 3D, 5D drills. 3、5 倍徑鑽孔深度
- 130° Tip angle, Straight shank. 130° 鑽尖, 直柄
- UNIX Coating. 高鋁鈦塗層技術

Indexable Holemaking Tools & others



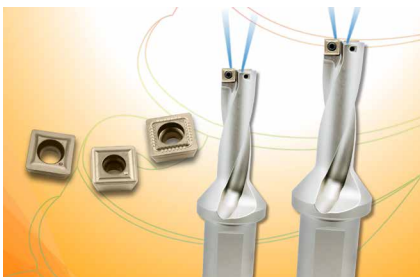
DZC for Steel 用於鋼料

- DZC Internal & DZN External coolant. 內冷及外冷鑽
- Step drills, customized available. 階梯鑽，可客製化
- Reinforced shank. 銑刀柄
- UNIX, SINIX Coating available. 高鋁鈦或含矽塗層技術可供選擇



DTN for Steel 用於鋼料

- 90°, 120°, 140° Tip angle. 90°、120°、140° 鑽尖可供選擇
- Spotting drills for spotting, chamfering, countersinking, grooving, and engraving. 定位鑽可用於定位、倒角、錐孔、V形槽、刻字等多種加工用途
- Prevents tip cracking design. 防止刀尖裂口設計



DSP Indexable Drill, SPMG insert 捨棄式鑽頭，SPMG 刀片

- Internal coolant. 內冷捨棄式鑽
- 2D, 3D, 4D, 5D indexable drills. 2、3、4、5 倍徑鑽孔深度
- Diameter 12.5 ~ 50mm. 適用 12.5 ~ 50mm 孔徑加工
- Use SPMG insert. 使用 SPMG 刀片



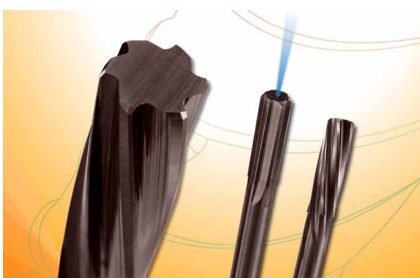
DWC Indexable Drill, WCMT insert 捨棄式鑽頭，WCMT 刀片

- Internal coolant. 內冷捨棄式鑽
- 2D, 3D, 4D, 5D indexable drills. 2、3、4、5 倍徑鑽孔深度
- Diameter 14 ~ 60mm. 適用 14 ~ 60mm 孔徑加工
- Use WCMT insert. 使用 WCMT 刀片



DTS Indexable Spotting drill 捨棄式 90° 定位鑽

- Multi-function : spotting, 45° chamfering, countersinking, grooving, and engraving. 可用於定位、45° 倒角、錐孔、V形槽、刻字等多種加工用途
- Prevents tip cracking design. 防止刀尖裂口設計
- Use SCM9T3 insert. 使用 SCM9T3 刀片



DRC & DRN for Steel 用於鋼料

- DRC Internal & DRN External coolant. 內冷及外冷銑刀
- Solid reamers for high accurate hole making. 專為高精度的銑孔加工設計
- UNIX Coating. 高鋁鈦塗層技術
- Customized available. 可客製化



*WINSTAR is your first choice of cutting tools supplier from Taiwan.
Always innovative in carbide tools manufacturing.*

Our Products :
產品系列

Solid Endmills 全鎢鋼銑刀

Indexable Milling 捨棄式銑削

Indexable Turning 捨棄式車削

Holemaking Tools 孔加工刀具

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