金利成切削刀具有限公司

台灣地區授權經銷商
漢翔公司

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04-27020001
407803　臺中市西屯區漢翔路 1 號

金利成切削刀具有限公司
JIN LI CHENG CUTTING TOOL CO., LTD

AIDC

公司簡介
Company Overview

金利成刀具有限公司專注製造、生產、研發銑刀、鑽頭、鉸刀、圓鼻刀等各種不同碳化鎢鋼切削刀具，主要應用於航空航太產業，醫療產業、汽車、機車、自行車，模具、機械配件、金屬特殊形狀加工。我們是專業的銑刀製造商

JLC focus on manufacturing, production, research and development, End Mills, Drills, Reamers, and various different solid end mills and tungsten carbide end mill. Your customized demand is our standard, mainly used in aviation aerospace industry, medical industry, car, motorcycle, bicycle, mold, mechanical parts, metal special shape processing.

www.endmill-tw.com/

No. 47, Dongqi 2nd Ln., Lukang Township, Changhua County 505008 , Taiwan (R.O.C.)

產 品 簡 介
Product introduction

我們設計與製造"特定"產業的成型刀，交貨迅速，服務品質好
可以依造需求，以最高標準和精度規格進行設計，彈性生產，提供特殊點數與公差客製化
從概念到最終完成，減少停機換刀時間與次數，縮短切削時間與提高生產效率。

We design and manufacture "specific industry" tools with fast delivery and great quality.
It can be designed according to the highest standard and specification from customers. Flexible manufacturing and accept customized tolerance.
From concept to Final completion. JLC customized tools will reduce the cutter exchange labor time and improve the efficiency of mass production.

AP4–AP5-718 鎳基合金

AP4 - AP5 End Mill For Nickel Alloy 718 - 4 Flutes

JAVN & SUS 不銹鋼鈦合金

JAVN Variable Lead & SUS Variable Lead End Mill For Stainless

APAL & ALUS 鋁合金

Bullet-shaped Design & ALUS No Machine Mark End Mill For Aluminum

AP 航太

NEW

JLC

實際測試影片

AP5 AEROSPACE SPECIAL

航太專用刀系列

AP5-718 鎳基合金專用刀

Aerospace Cutting Tools Series
AP5-End Mill For Nickel Alloy 718 - 5 Flutes

5刃高剛性設計，側銑專用，精修表面品質更好。

5 flutes high-rigidity design for side milling, excellent finished surface quality.

整體F值較4刃增加2成以上，效率更高。

The overal F-value is increased more than 20% compared with the 4 flutes type.

特殊刃口設計，完全不用降低切削量，達到最高效率極致。

Special flute design, no need to reduce the cutting feeds.

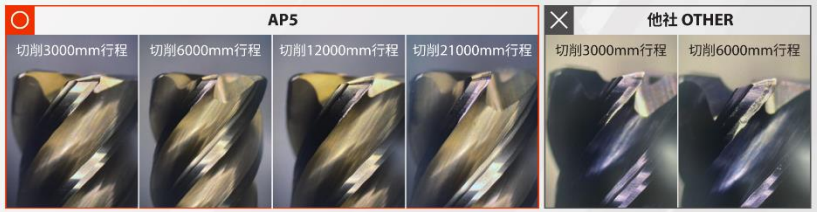
刀具鍍層：JLC獨家高硬度複合鍍層，抗沾黏耐溫1200度以上，有效提高刀具壽命跟加工表面精度。

Coating: JLC exclusive composite coating, remove chips smoothly and temperature-resistant is above 1200 degree. Improve tool life time and surface accuracy of workpiece.

實績測試 BENCHMARK TEST

產品型號 (Product)	AP5-0605R		
機台 (Machine)	常銘 (ChampMill e-1000)	單刃切削量 (Feed Rate Per Tooth)	0.04 mm
工件 (Work Piece)	鎳基合金 (Inconel 718)	深度 (Depth)	2 mm
轉速 (Spindle Speed)	1590 RPM	寬度 (Width)	0.5 mm
進給 (Feed Rate)	318 mm/min	切削方式 (Milling Method)	側銑 Side Milling

真實切削磨耗比較 TOOL WEAR OUT BENCHMARK TEST



AP 航太

NEW

JLC

實際測試影片

AP4 AEROSPACE SPECIAL

航太專用刀系列

AP4-718 鎳基合金專用刀

Aerospace Cutting Tools Series
AP4-End Mill For Nickel Alloy 718 - 4 Flutes

不等刃設計降低與工件親附性，全方位抑制加工顫振及噪音，效果更加卓越。

Unequal flute design reduce the friction with the workpiece, Lower machining chatter and noise .

特殊R型溝底不等螺旋與不等刃設計，增加刀具最大剛性及最大的有效排屑空間。

The special R-shaped groove and unequal helix angle design, increase the rigidity of the tool and chip removal space.

獨特外緣刃設計，加速排屑、降低排屑阻抗，相比一般刀具壽命增加1倍以上。

Unique outer flute design, accelerate chip out process, double life time than the general tools.

刀具鍍層：JLC獨家高硬度複合鍍層，抗沾黏耐溫1200度以上，有效提高刀具壽命跟加工表面精度。

Coating: JLC exclusive composite coating, remove chips smoothly and temperature resistance is above 1200 degree, improve tool life time and surface accuracy of workpiece.

實績測試 BENCHMARK TEST

產品型號 (Product)	AP4-0605R		
機台 (Machine)	常銘 (ChampMill e-1000)	單刃切削量 (Feed Rate Per Tooth)	0.05 mm
工件 (Work Piece)	鎳基合金 (Inconel 718)	深度 (Depth)	2 mm
轉速 (Spindle Speed)	1590 RPM	寬度 (Width)	0.5 mm
進給 (Feed Rate)	318 mm/min	切削方式 (Milling Method)	側銑 Side Milling

真實切削磨耗比較 TOOL WEAR OUT BENCHMARK TEST

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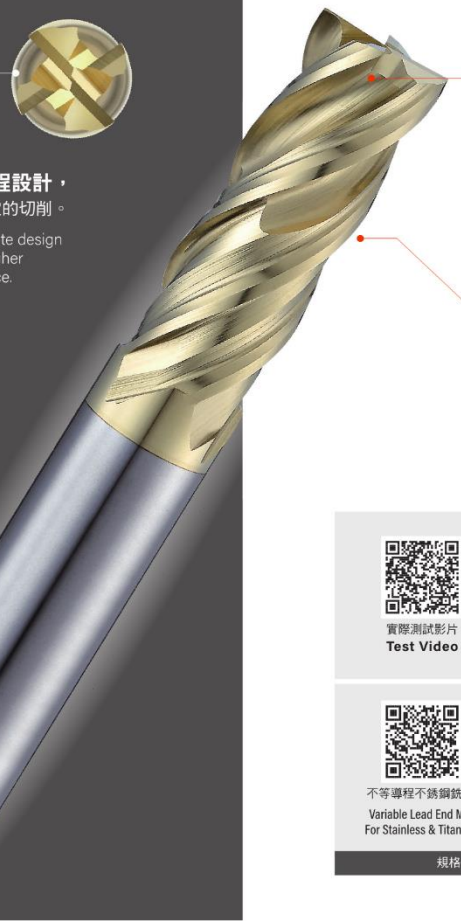
JAVN 不等導程不銹鋼 鈦合金銑刀

Variable Lead End Mill For Stainless & Titanium

加工類別 PROCESSING CATEGORY

鈦合金 TITANIUM ALLOY　不銹鋼 STAINLESS STEEL

SUPER系列 SUPER CUTTING TOOLS SERIES



採用不等距導程設計，
實現高效率且穩定的切削。

"Variable - Lead" flute design leads stable and higher efficient performance.

專為溝銑切削加工，
設計獨特雙芯溝槽與獨特刃口，加工去削快速俐落。

The unique dual-core flute and blade is special designed or groove milling which leads the processing is fast and neat.

複合式鍍層
專為難切削的不銹鋼304與4字頭的工件所設計。

Special multilayer coating for milling all types 304 and 4 digit number stainless work piece.

實際測試影片 **Test Video**

切削條件表 **Cutting Condition** 頁數 /P.276

不等導程不銹鋼銑刀 Variable Lead End Mill For Stainless & Titanium

不等導程不銹鋼圓鼻銑刀 Variable Lead Corner Radius End Mill For Stainless & Titanium

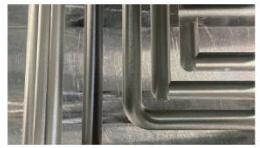
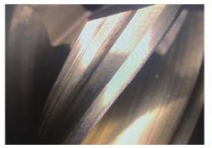
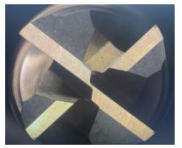
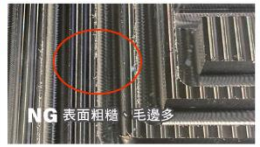
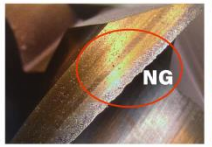
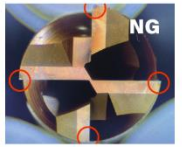
規格表/ **Specification List**

客製化 CUSTOMIZED SERVICE
非標準尺寸可訂製·請另外洽詢
Welcome to inquiry the special SPEC

JAVN1010 實績測試 Benchmark Test

機台 Machine	常銘 ChampMill e-1000	單刃切削量 Feed Rate Per Tooth	0.04 mm
工件 Work Piece	不銹鋼 Stainless 304	深度 Depth	10 mm
轉速 Spindle Speed	3200 RPM	寬度 Width	10 mm
進給 Feed Rate	400 mm/min	切削方式 Milling Method	溝銑 Slot Milling

真實切削磨耗比較 Tool Wear Out Benchmark Test

✓ JAVN			
✗ 他社 OTHER	 NG 表面粗糙、毛邊多	 NG	 NG

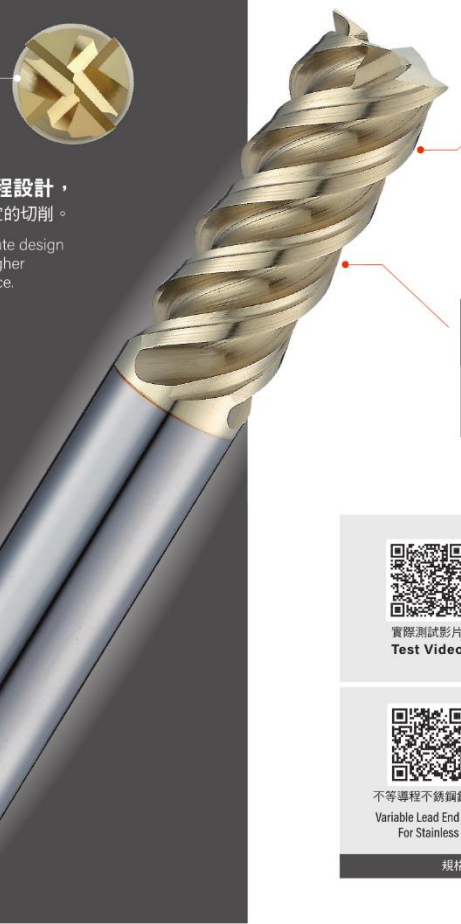
SUS 不等導程不銹鋼 銑刀

Variable Lead End Mill For Stainless

SUPER系列 SUPER CUTTING TOOLS SERIES

加工類別 PROCESSING CATEGORY

鈦合金 TITANIUM ALLOY | 不銹鋼 STAINLESS STEEL



採用不等距導程設計，
實現高效率且穩定的切削。

"Variable - Lead" flute design leads stable and higher efficient performance.

專為側銑切削加工
設計高螺旋角溝槽，加工去屑快速俐落，不易產生熱能，提高刀具壽命。

With the high helix angle groove is special designed for side milling which leads chip out is fast and improve tool life time due to not easy to generate heat on it.

複合式鍍層
專為難切削的不銹鋼304與4字頭的工件所設計。

Special multilayer coating for milling all types 304 and 4 digit number stainless work piece.

實際測試影片
Test Video

切削條件表
Cutting Condition
頁數 /P.276

不等導程不銹鋼銑刀
Variable Lead End Mill For Stainless

不等導程不銹鋼圓鼻銑刀
Variable Lead Corner Radius End Mill For Stainless

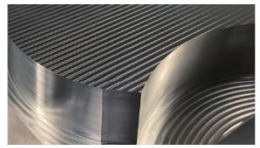
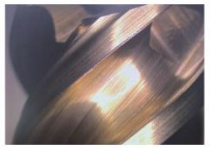
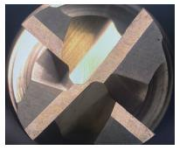
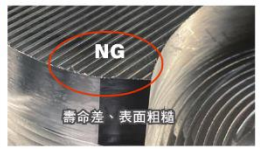
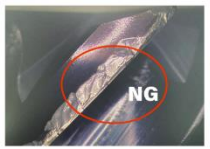
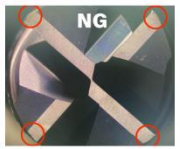
規格表/ **Specification List**

客製化
CUSTOMIZED SERVICE
非標準尺寸可訂製-請另外洽詢
Welcome to inquiry the special SPEC

SUS1010 實績測試 Benchmark Test

機台 Machine	常銘 ChampMill e-1000	單刃切削量 Feed Rate Per Tooth	0.06 mm
工件 Work Piece	不銹鋼 Stainless 304	深度 Depth	20 mm
轉速 Spindle Speed	2546 RPM	寬度 Width	2 mm
進給 Feed Rate	611 mm/min	切削方式 Milling Method	側銑 Side milling

真實切削磨耗比較 Tool Wear Out Benchmark Test

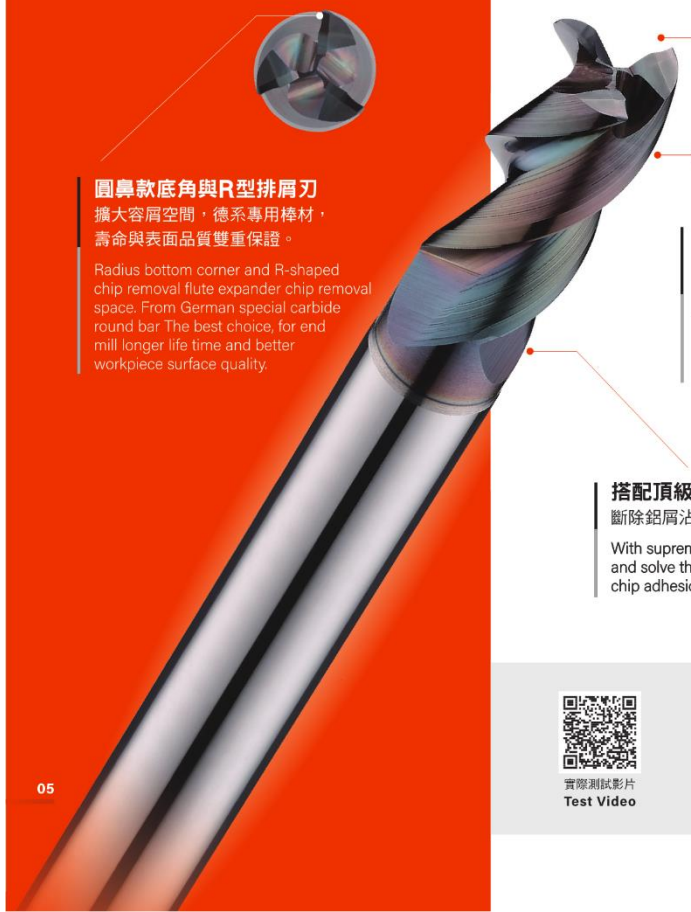
✓ SUS				
✗ 他社 OTHER				

APAL 子彈鋁刀

Bullet-Shaped Design End Mill For Aluminum

航太專用刀系列 AEROSPACE CUTTING TOOLS SERIES

加工類別 PROCESSING CATEGORY
鋁合金 ALUMINUM ALLOY



圓鼻款底角與R型排屑刃
擴大容屑空間，德系專用棒材，
壽命與表面品質雙重保證。

Radius bottom corner and R-shaped chip removal flute expander chip removal space. From German special carbide round bar The best choice, for end mill longer life time and better workpiece surface quality.

流線子彈型設計
可斜插加工與大角度切削，
發揮粗加工最佳表現。

Bullet-shaped design, excellent slop processing and large angle cutting best performance in rough milling.

插銑、鑽銑的最佳利器！
子彈流體力學概念，阻力小，
破壞力強大。

The best choice for broaching and drill milling, Bullet fluid mechanics concept less resistance, powerful cutting force.

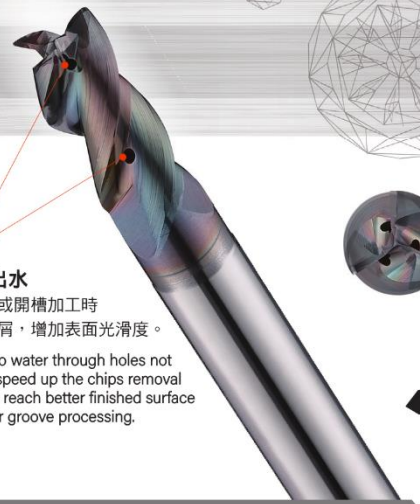
搭配頂級類鑽鍍層
斷除鋁屑沾黏困擾

With supreme Ta-C coating and solve the Aluminum chip adhesion issue.

實際測試影片
Test Video

規格表
Specification List

切削條件表
Cutting Condition
頁數/P.272-P.273



雙重出水
使插銑或開槽加工時
不易積屑，增加表面光滑度。

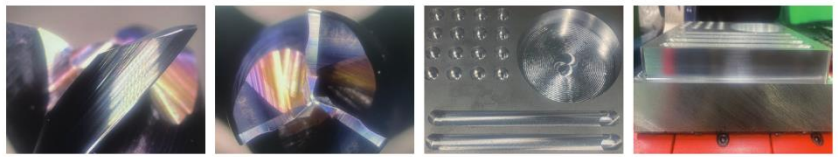
With two water through holes not only to speed up the chips removal but also reach better finished surface in slot or groove processing.

客製化 CUSTOMIZED SERVICE
非標準尺寸可訂製·請另外洽詢
Welcome to inquiry the special SPEC
客製化底刃出水加徑向出水·請另外洽詢
Welcome to inquiry specialized bottom through hole / radial water outlet tool series.

APAL1010 實績測試 Benchmark Test

機台 Machine	常銘 ChampMill e-1000				
工件 Work Piece	鋁 Aluminum 6061				
轉速 Spindle Speed	7950 RPM	7950 RPM	7950 RPM	7950 RPM	7950 RPM
進給 Feed Rate	2862 mm/min	2862 mm/min	3500 mm/min	2862 mm/min	2862 mm/min
單刃切削量 Feed Rate Per Tooth	0.12 mm	0.12 mm	0.15 mm	0.12 mm	0.12 mm
深度 Depth	10 mm	10 mm	15 mm	15 mm	10 mm
寬度 Width	10 mm	10 mm	2.5 mm	2.5 mm	10 mm
切削方式 Milling Method	斜向45度溝銑 45° Ramping	溝銑 Slot Milling	側銑 Side milling	螺旋下刀 Helix Milling	鑽孔 Drilling

APAL1010 真實切削磨耗 Tool Wear Out Benchmark



ALUS 無橫向拉紋鋁用 銑刀

No Machine Mark End Mill For Aluminum

SUPER系列 SUPER CUTTING TOOLS SERIES

加工類別 PROCESSING CATEGORY

鋁合金 ALUMINUM ALLOY

底刃雙斜刃設計

降低摩擦係數，阻力小。

Two bevel angle for bottom blade design Reduced the friction coefficient and process resistance. Aluminum chip removal efficiency is better than others.

獨有的拋光刃口與平整的刀刃

完全實現加工無橫向拉痕。

Unique polished process leads the work piece with no lateral marks milling result.

專為表面要求高光亮

的鋁件加工所設計。

Designed for all aluminum work piece with better surface demand.

採用雙刀刃設計

去屑快，加工鋁件更俐落。

Dual blades shape design, remove aluminum chips faster than normal type.

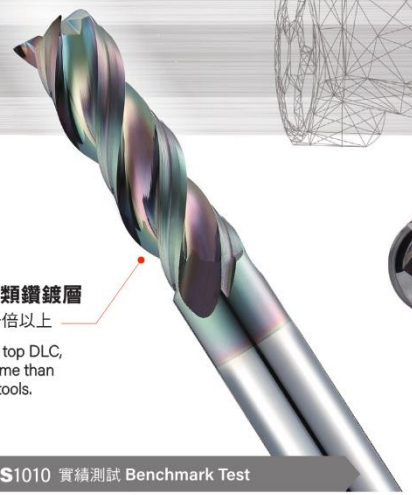
實際測試影片 **Test Video**

切削條件表 **Cutting Condition** 頁數 /P.278

無橫向拉紋鋁用銑刀 No Machine Mark End Mill For Aluminum

無橫向拉紋鋁用銑刀-類鑽鍍層 No Machine Mark End Mill For Aluminum-EURope CVD Coating

規格表/ **Specification List**



搭配頂級類鑽鍍層

壽命增加一倍以上

Coated with top DLC, double life time than the general tools.

客製化 CUSTOMIZED SERVICE

非標準尺寸可訂製-請另外洽詢

Welcome to inquiry the special SPEC

ALUS1010 實績測試 Benchmark Test

機台 Machine	常銘 ChampMill e-1000			
工件 Work Piece	鋁 Aluminum 6061			
轉速 Spindle Speed	9550 RPM	9550 RPM	9550 RPM	9550 RPM
進給 Feed Rate	3550 mm/min	3500 mm/min	3500 mm/min	900 mm/min
單刃切削量 Feed Rate Per Tooth	0.12 mm	0.12 mm	0.12 mm	0.03 mm
深度 Depth	10 mm	15 mm	15 mm	15 mm
寬度 Width	10 mm	2 mm	2 mm	0.5 mm
切削方式 Milling Method	溝銑 Slot Milling	側銑 Side milling	螺旋側銑 Side Helix Milling	螺旋下刀 Helix Milling

真實切削磨耗比較 Tool Wear Out Benchmark Test