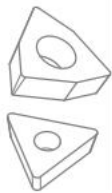
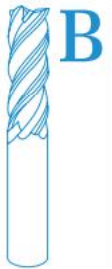


A 刀片 INSERT



不鏽鋼 M-Stainless Steel	ECM200 / ECM2020 / BE4875 / BEJ750 / BEJ758 / BEP706	A10~A40
一般鋼 P-Steel	BEF707 / BEF607 / ECP100 / ECP200 / ECP300 / DF333	A10~A40
鑄鐵 K-Cast Iron	BEG607 / ECK300 / ECK200 / ECK100	A10~A40
半陶瓷 P-Steel	BQW706 / BQJ606F / BQJ606 / W35	A10~A40
切斷 vs 槽刀刀片 Cutting Off vs Shallow Grooving Insert	ECH / EC	A41~A43
快鑽刀片 For Drilling Insert	SPMT / SPGT / WDXT / WCMX	A44~A45
鑽石刀片 CBN、PCD Cutting	CBN / PCD	A46~A49
牙刀刀片 Therading Insert	ER / IR	A54~A56



B 鎢鋼端銑刀 CARBIDE END MILL

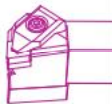
平刀 End Mill	S-EMM / S-EMML / EMM / EMML / EPM / GMM / MU-EMM / MU-GMM / MU2-GPM / MUH-GMM / MUH-IMM MUH-IMM-DIN / MUH-IGM / MUH-IGM / MUH-IPM / MUH-FPM / LUH-IMM / FM-CMM / RM-CMM / CFM-DMM	B09~B48
球頭銑刀 Ball Nose End Mill	S-EMB / EMB / DMB / DPB / EPB	B49~B58
內R角刀 Inner R End Mill	EPU	B59~B60
圓鼻銑刀 Corner Radius End Mill	DMR / PH-FMR / PH-FPR	B61~B68
倒角刀 Chamfer Type	DR-DMC / DC-DMC / CC-AMC / CR-AMC	B69~B71
外R倒角刀 Outer R Chamfer	AMI	B72~B73
鋁合金專用刀 For Aluminum Alloy End Mill	GMA / HMA / MU2-GMA / MU2-HMA / MU3-JMA	B74~B82

C 外徑車刀 TOOL HOLDER



E-Type壓板 E-type Series	ECLN / ECKN / ECMN / ECMN-A / ECRN / ETJN / ETXN / ETGN / ETEN / ETQN / ETFN EWLN / ESDN / ESNB / ESKN / ESSN / EVJN / EVVNR / EVVN / EVQN / EDJN / EDQN / EDNN	C09~C32
M-Type壓板 M-type Series	MCLN / MCKN / MCRN / MTJN / MTGN / MTEN / MTQN / MTFN / MWLN / MSDN / MSBN MSKN / MSSN / MVJN / MVVN / MVVN / MVQN / MVVN-N / MVUN / MDJN / MDQN / MDNN	C09~C32
S-Type螺絲鎖緊 S-type Series	SCLC / SCNC / STEP / STFP / STAC / STEC / STFC / SSSC / SVKB / SVJC / SVJC / SVVC SVVC / SVKC / SVUC / SVQC / SVJN / SVJB / SVVB / SVUB / SVQB / SDJC / SDQC / SDNC SRAC / SRDC / SRGC / EWT1 / SE / ESE	C33~C52

D 外徑出水車刀架 TOOL HOLDER WITH COOLANT



壓板式出水外徑車刀架 Coolant Fed Clamp Tool Holder	HCLN / HCMN / HCRN / HCKN / HTJN / HTEN / HTFN HTGN / HTQN / HWLN / HSDN / HSNB / HSKN / HSSN HVJN / HVVN / HDJN / HDQN / HDNN	D07~D17
外徑出水車刀架 Tool Holder With Coolant	ECLN / ECMN / ECRN / ECMN-A / ECKN / ETJN / ETJN-A / ETXN ETEN / ETQN / ETFN / EWLN / ESDN / ESNB / ESKN / ESSN / EDJN EDQN / EDNN	D18~D36
外徑出水切斷刀架 External grooving Holder With Coolant	EZH / EGYH	D37~D38

E 走心式車刀 AUTOMATIC LATHES



走心式車刀 Tool Holder For Antomatiil Lathes	SCLC-N / SCAC-N / GTAN / STAC-N / SVJC(B)-A / SVKB / SVKC SDJC-N / SDAC-N / SDAC-NA	E03~E07
走心式切斷刀車刀架 Grooving Tool Holder For Antomatiil Lathes	EZH	E07
走心式螺紋牙刀車刀架 Sliding Head Threading Turning Tool Holder	EWC / SE-N	E08

F 手工具 HAND TOOLS



SRGP / SRDP / SRAP / SRDC / SS10C / SS15C / SS20C / SS26C / SS30C / SS45C / SS80C / SS90C / SS45D / SS10P / SS20P SS26P / SS30P / SS45P / SS60P / SS90P / SP02R / STCC / ST10C / ST20C / ST30C / ST40C / SVVC / SV30C / SV50C / SV60C SV72.5C / SV80C / SV90C / 2VCVN	F06~F30
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G 微小徑鎢鋼內徑車刀 TINY CARBIDE BORING BAR

GP_R / GQ_R / GT_R / GU_R / GX_R / GW_R / GV_R / GG_R / GK_R / GF_L / GF_R / GI_L / GI_R / GD_R / GZ_R	G05~G18
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H 內徑車刀 BORING BAR



S-Type 螺絲鎖緊 S-type Series CC / CP / TC / TP / TB / DC / VC / VB / SC / WC / WB / CN / TN / WN / DN / VN / SN / ER / IR	H14~A61
E-Type 壓板 E-type Series CN / TN / WN / DN / VN / SN	H63~H80
M-Type 壓板 M-type Series CN / TN / WN / DN / VN / SN	H63~H80
內徑螺紋車刀 Index of Carbide Threading Boring Bar Series SIN / HIN / HIN-O / CIN	H82~H88

I 切斷刀架 GROOVING



內徑開槽刀架 Internal Grooving ECZ / HOZ / ECDG / ELC	I06~I09
外徑切斷刀架 External Grooving EZH / HLH / ELC / EGHG / ETGD / EDGT / EDGH / EGYH / EGEH	I10~I32
外徑插溝刀架 External Grooving Tool HQG	I13
端面刀架 Face Grooving HOG / ELG / EZG / HYG / HYM	I15~I22
外徑端面淺槽切斷刀架 External Shallow Grooving EHH	I23
內徑出水端面淺槽刀架 External Shallow Grooving HOS	I24
外徑淺槽刀架 External Slot Grooving EWC	I25
外徑切斷刀板 Blade For Parting Off EIH / EBU	I26

J 銑 刀 END MILL & CUTTER



方肩銑系列 Shoulder Face Milling Series EAPMC / EAPMD / EJ90AP16 / EJ90AP / ED90AP / EX90 / E90AP / EM90AP16 EM90AP / EAX / EAX-O / ESP400 / EAP / EDAPHA / EASX400 / SAE	J07~J70
平面銑削系列 Surface Milling Series S45SE / SE50 / EC	J44~J57
銑槽系列 Slot Series SC / SCT / SPS / SPT / TSP / TE / TS	J33~J58
多功能銑削系列 Multi-Function Milling Series TM45° / TM60° / TC / CSP	J42~J71
仿型銑削系列 Profile Milling Series ERDH / EDRDH / ERDHA0R0 / EZC / SR / EC00M	J52~J74

K 快速鑽頭 RAPID DRILL



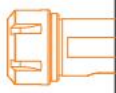
SPGX Series SPGX 2D / SPGX 3D / SPGX 4D	K06~K13
BSP Series BSP	K14
EDX Series EDX 2D / EDX 3D / EDX 4D	K17~K22
WCMX Series WCMX 2D / WCMX 3D / WCMX 4D	K26~K32



L 鎢鋼鑽頭 CARBIDE DRILL

鎢鋼鑽頭 Carbide Drill ME 20	L03~L16
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M 機床配件 MACHINE ACCESSORIES



搪孔刀 Boring Tool BJ	M02
圓型鋸片刀桿 Carbide Circular Saw Holder TTA	M03
內孔刀具定位座 Lathe Quick Center Block ETHR	M03
中心鑽刀桿 Centre Drill Holder ECH	M04
套筒 Sleeve SHB / SHB-O / EHR / EHR-O / EHRMT / DHR / ELM	M05~M11
ER夾頭柄 ER Collet Chuck EKA	M12
EC-ER筒夾螺母 EC-ER Collet Nut EC-ER	M12
ER扳手 ER Wrench ER	M13
ER筒夾 ER Collet ER	M13
外徑墊高輔助刀座 Increased Outer Diameter Converter LST	M14

N 技術資料 TECHNICAL DOCUMENTS

車削加工 Turning Process、銑削加工 Milling Process	N01
螺紋加工切入方式建議 The Suggestion Of Threading Processing	N02
鎢鋼鑽頭DIN6535規範 Carbide Straight Shanks For Twist Drills And End Mills	N03
符合ISO13399標準尺寸記號 Comply With ISO13399 Standard Size Notation	N04~N11
零件 Parts	N12~N16



可搭配快速切削
Can be used for fast cutting

新一代雙塗層刀片
New Generation of **DOUBLE COATED**

ECM2020刀片系列

ECM2020 INSERT

耐磨性佳 壽命更長

Longer life Excellent wear resistance

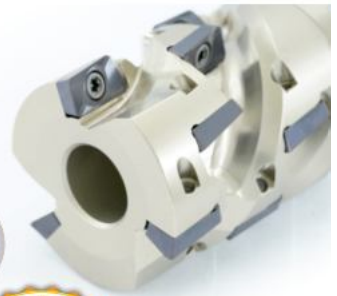
專長加工 **不鏽鋼** Good at processing stainless steel

刀片加工效能全面升級 適合各類切削方式 **輕切削、中切削、重切削**

light cutting, medium cutting and heavy cutting
comprehensive upgrade of inserts processing efficiency

粗銑刀系列

 **切深大範圍** The Wide Range Of Deep Cutting



可替換捨棄式銑刀，刀片通用各知名品牌刀片

可節省刀具修磨訂製時間，降低切削阻力，良好的斷屑效果。

Replaceable disposable end mill cutter, compatible with different famous brand inserts reducing the time of repairing the milling cutter, reduce cutting resistance good chip breaking effect.

Roughing Milling Cutter

EJ90AP16 series 粗銑端銑刀
EJ90AP11 series
Disposable Roughing
Milling Cutter
更多規格詳見第J15頁
Reference Page-J15



EJ90AP11 series
切深大範圍粗銑刀
The Wide Range Of Deep
Cutting Disposable
Roughing Milling Cutter
更多規格詳見第J15頁
Reference Page-J15



FM-CMM series
RM-CMM series
鎢鋼粗銑端銑刀
Carbide roughing cutter
更多規格詳見第B46頁
Reference Page-B46



EJ90AP16 series
捨棄式粗銑刀盤
Disposable Roughing
Milling Cutter
更多規格詳見第J14頁
Reference Page-J14



MADE IN
TAIWAN
NEW ARRIVAL

全新表面處理的堅固鑽體

High Torsional Resistance

捨棄式快速鑽頭 沉頭鑽

Rapid Drill
Countersunk Drill

SPGX2D / SPGX3D / SPGX4D / BSP / EDX2D / EDX3D / EDX4D
WCMX2D / WCMX3D / WCMX4D

更多規格詳見第K06~K32頁
Type Reference Page-K06~K32

鎢鋼鑽頭

Carbide Drill

ME20 series

提升排屑性能，鑽尖結構優化切削性能
Optimized design of drill tip structure to improve cutting performance.

獨特雙刃帶設計，提升加工穩定性，延長加工使用時間
Unique double-edged belt design, improves processing stability and prolongs



- 圓棒採用含鈷量12%超微粒硬質合金，高剛性、耐磨耗、耐高溫
The round bar adopts 12% cobalt content ultra-fine hard alloy, high rigidity, wear resistance, high temperature resistance.
- 採用全新進口五軸刀具研磨機生產，研磨尺寸精準且穩定
Produced by a brand-new imported five-axis cutter grinder with precise and stable grinding size.
- 全新Al-TiN鍍鈦塗層，泛用性廣
The new Al-TiN titanium plating coating has wide versatility.

更多規格詳見第L03~L16頁 Type Reference Page-L03~L16

雙向直噴水孔系列

Two-way direct injection water hole series

外徑中心出水車刀架

Centre coolant Fed Clamp Tool Holder



更多規格詳見第D07~D17頁 Type Reference Page-D07~D17

全球獨步下壓板引導式水孔
Globally stepped down platen-type water hole



可由刀架側面及刀架下方皆可接入高壓水管
High pressure water pipes can be accessed from the side of the tool holder or under the tool holder



近距離噴射中心出水，強效降低切削所產生的熱能，高壓出水加強斷屑效果，使排屑順暢，避免捲屑問題。中心銷精準定位，大壓板加強固定，可承受輕、中、重切削加工，尺寸穩定。

Close-range center jetting water, strengthen the heat energy generated during cutting, high-pressure effluent strengthens the chip breaking effect, smoothing the chip removal and avoiding the problem of chipping, screw of shim precise positioning, large clamp to strengthen and precision positioning for light cutting, medium cutting, heavy cutting.



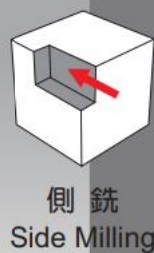
U.S. vs JP patent
已通過美國以及日本發明專利

MU2-GPM 系列

4 刃圓溝 2 離隙

鎢鋼立銑刀

4 Flutes Rounded Land
Double Edge
Carbid End Mill



螺旋角採用45°設計
Helix Angle 45° Design

更多規格詳見第B33~B34頁
Type Reference Page-B33~B34

專用特殊塗層 For the particular coating with

合金鋼 Caron Steel

碳鋼 Alloy Steel



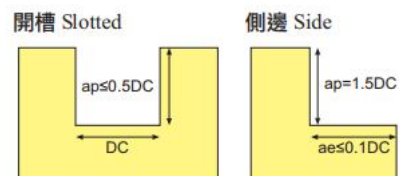
特殊矽鈦塗層，合金鋼及碳鋼專用材質，刃口採雙離隙研磨，減少因阻抗而產生的震動，可有效降低或避免刀具進行側銑時的切削震動紋路，提昇切削能力，有利於獲得高質量的加工表面，減少工件產生端口毛刺，提高刀具壽命。

Special silicon-titanium coating, alloy steel and carbon steel special material, the cutting edge adopts double relief grinding to reduce the resistance caused by Vibration can effectively reduce or avoid the cutting vibration pattern when the tool is side milling, and improve the cutting ability, which is beneficial to obtain a high-quality machining surface then reduce port burrs on the workpiece and increase tool life.

切削參數 The Cutting Data

直徑 (mm) Shank	4	6	8	10	12	16	20
轉速 n (min)	6370	4250	3190	2550	2130	1500	1200
進給速度 Vf (mm/min)	開槽 Slotted	510	470	450	410	360	420
	側邊 Side	1020	940	900	820	730	400

切削深度 Cutting depth



ap: 軸向切削深度 Axial depth of cutting
ae: 徑向切削深度 Radial depth of cutting
DC: 刃徑 Diameter of cutting

更多規格詳見第B47~B48頁
Type Reference Page-B47~B48

適用材質 Processing on

玻璃纖維 Glass Fiber

碳纖維 Carbon Fiber

CFM-DMM 系列

鎢鋼複合材料

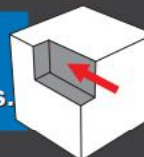
Carbide End Mill For Composites Finishing

精加工立銑刀

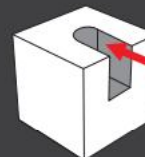
✓ 採用DLC類鑽碳鍍層，適合複合材料精加工
Use diamond like carbon coating creates, for composites finishing.

✓ 特殊切碎幾何刀刃設計
Geometric cutting edge design creates shredding effects.

✓ 螺旋角30°設計
Helix angle 30° design.



側銑 Side Milling



全開槽 Full Slot

有利於切削玻璃纖維、碳纖維等複合材料進行加工，實現高質量的加工表面，高耐磨塗層，可減少磨損，提升刀具加工壽命。

Excellent processing of glass fiber and carbon fiber.

tool life extension, high wear resistance, low wear, high quality machined surface.

切削參數 The Cutting Data

直徑 (mm) Shank		4	6	8	10	12
轉速 n (min)		6370	4250	3190	2550	2130
進給速度 Vf (mm/min)	開槽 Slotted	510	470	450	410	360
	側邊 Side	1020	940	900	820	730

切削深度 Cutting depth

開槽 Slotted



側邊 Side



ap : 軸向切削深度 Axial depth of cutting
ae : 徑向切削深度 Radial depth of cutting
DC : 刃徑 Diameter of cutting

EPU4000 series

更多規格詳見第B59~B60頁
Type Reference Page-B59~B60



260°內R角4刃鎢鋼端銑刀

260° Inner Radius 4 Flutes Carbide End Mill

260°圓頭設計

260° Round Head Design



適用材質 Processing on

合金鋼 Caron Steel

碳鋼 Alloy Steel

1

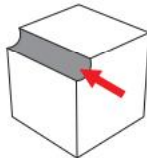
特殊鈦塗層，全新進口棒材，耐震高、抗崩損
Special titanium coating and new imported bar, the product has high shock resistance and can resist edge breakage.

2

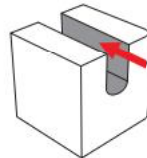
螺旋角35°設計，260°圓頭設計，適用各式特殊加工成型。
Helix angle 35° design, 260° round head design, suitable for various, special processing and molding.

3

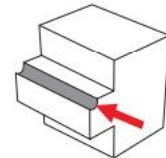
排屑槽設計理想，排屑效率高，刀刃耗損低、有效提升刀具壽命，倒角表面光滑。
Smoother chips evacuation design, high chip removal efficiency and cutting edge wear low, effectively improve tool life, smooth surface of chamfer.



內R角側銑
Internal R Slotced



R角開槽
R Corner Slotced



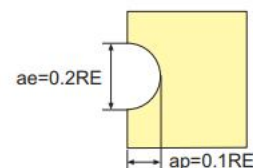
背面內R倒角
Backside R Chamfering

切削參數 The Cutting Data

刃角R R Angle	1	1.5	2	2.5	3	4	5	6	8
轉速 n (min)	12700	8500	6400	5100	4300	3200	2600	2200	1600
進給速度 Vf (mm/min)	450	450	470	470	490	500	550	510	450

切削深度 Cutting depth

ap : 軸向切削深度 Axial depth of cutting
ae : 徑向切削深度 Radial depth of cutting
DC : 刃徑 Diameter of cutting





2刃鎢鋼外R角倒角銑刀

2 Flutes External R Chamfering Carbide End Mill



AMI 2000系列

採用全新進口棒材，加工工件硬度 HRC55° 以下，R角精準研磨，加工準確、耐磨性好，加工工件邊緣外R圓弧倒角的最佳利器。

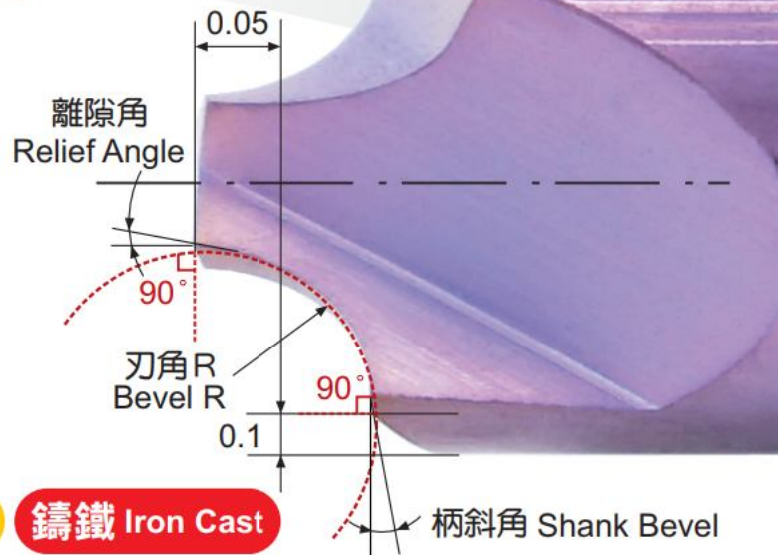
Using the latest import carbide rod, It can process on hardness up to 55HRC, R angle precision grinding, accurate processing, the best tool for machining the outer edge of the workpiece with R arc chamfering.

適用材質 Processing on

鋼 Steel

不鏽鋼 Stainless Steel

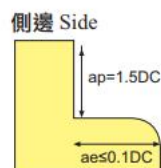
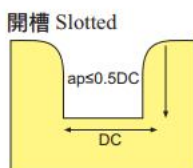
鑄鐵 Iron Cast



切削參數 The Cutting Data

刃角 R Angle	0.5	0.75	1	1.25	1.5	1.75	2	2.5	3	4	5	6
轉速 n (min)	7800	6350	4700	4000	3100	2800	2600	2200	1900	1500	1300	1100
進給速度 Vf (mm/min)	310	250	190	240	190	170	160	180	150	180	210	180

切削深度 Cutting depth



ap : 軸向切削深度 Axial depth of cutting
ae : 徑向切削深度 Radial depth of cutting
DC : 刃徑 Diameter of cutting

出水端面切槽刀架 Coolant Face Grooving

不必再費時拆刀座了!!

**No need to waste your time
dismantle the tool block!!**



第26屆中小企業創新研究獎
The 26th Taiwan SMEs Innovation Award

HOGR系列

不用拆裝刀座，可快速定位使用
可做內徑端面切槽

Didn't need to dismantling the tool
block, can faster positioning to use
can make internal face grooving.

全球首創專利新品

更多規格詳見第115~117頁
Type Reference Page-115~117

Ø40
Ø999

中心出水設計 Coolant Thru Spindle Design