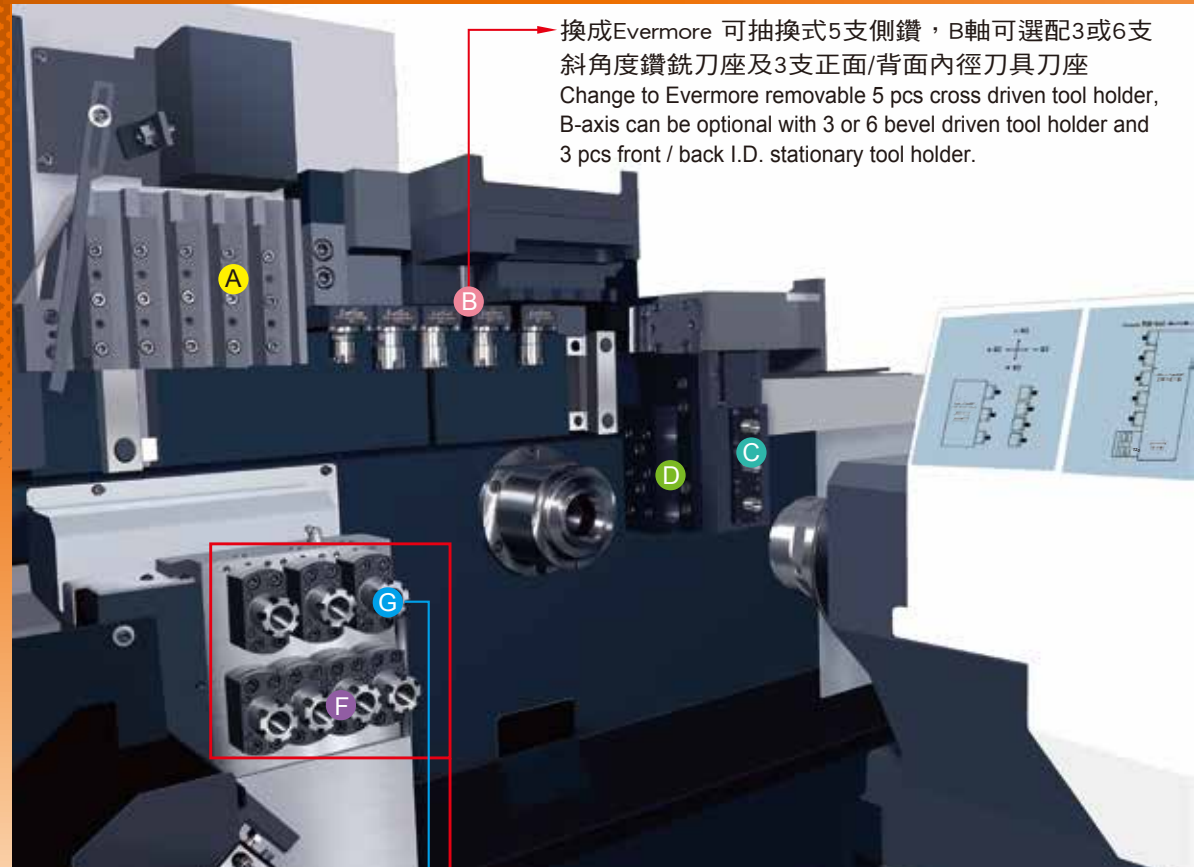
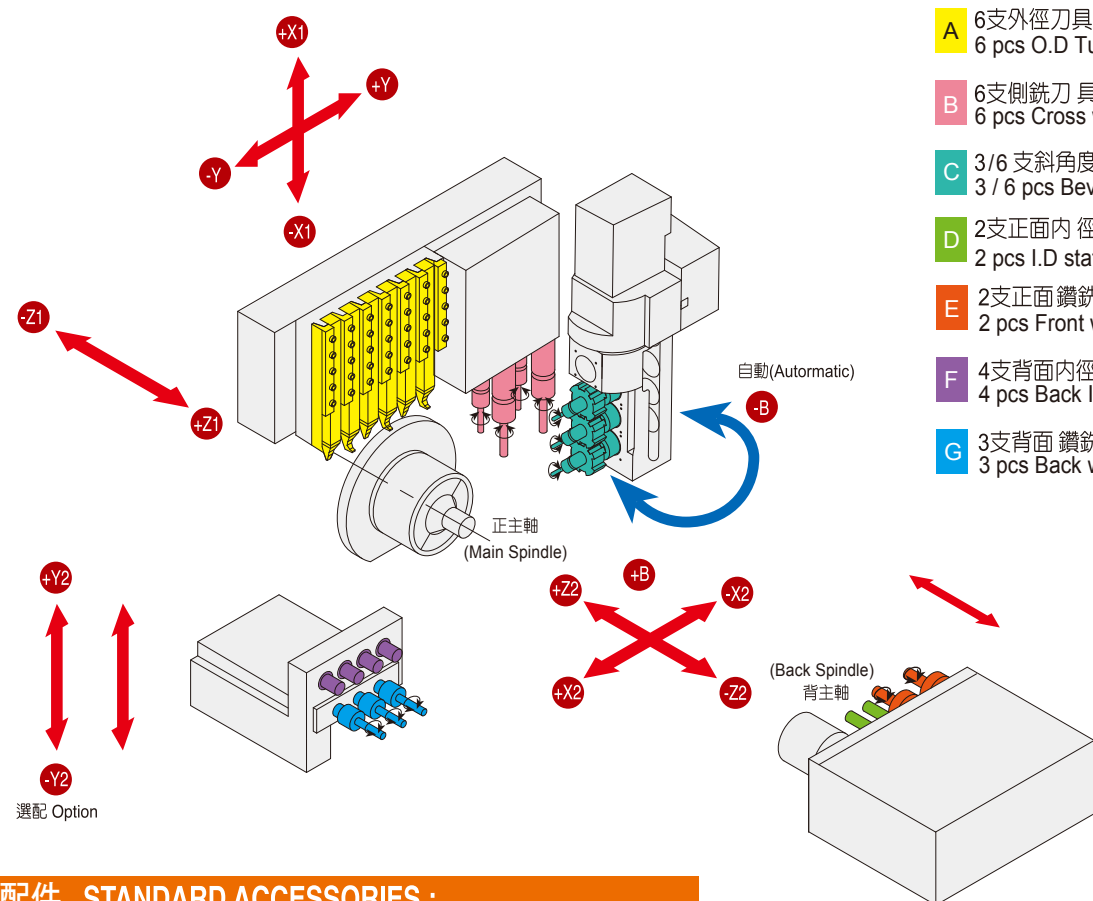


The lastset DIAMOND CSL series is the type long awaited by users who are in the field requiring back-face or second machining!

眾人引頸盼望 功能超乎想像
走心 走刀 兩用式車床



換成Evermore 可抽換式5支側鑽，B軸可選配3或6支斜角度鑽銑刀座及3支正面/背面內徑刀具刀座
Change to Evermore removable 5 pcs cross driven tool holder, B-axis can be optional with 3 or 6 bevel driven tool holder and 3 pcs front / back I.D. stationary tool holder.



- A** 6支外徑刀具刀座(42型5支)
6 pcs O.D Turning tool holder (42 CSL 5pcs)
- B** 6支側銑刀 刀具刀座
6 pcs Cross working driven tool holder
- C** 3/6 支斜角度 鑽銑刀具刀座
3 / 6 pcs Bevel driven tool holder
- D** 2支正面內 徑刀具刀座
2 pcs I.D stationary tool holder
- E** 2支正面鑽銑刀具刀座
2 pcs Front working driven tool holder
- F** 4支背面內徑刀具刀座
4 pcs Back I.D stationary tool holder
- G** 3支背面 鑽銑刀具刀座
3 pcs Back working driven tool holder

機械特點 MACHINE FEATURES :

- 側銑主軸加鑽銑斜角度刀座，方便在工件側面及斜角度做鑽、銑和攻牙等功能。
- 十字型走向背主軸設計，主軸和背軸可以同時或單獨加工節省加工時間，提供高度及多樣的前後混合加工。
- B軸鑽銑斜角度刀座可360度旋轉方便與主軸和背軸做斜角度鑽，銑和攻牙等加工。
- Cross spindle and bevel driven tool holes will help you to do drilling, milling and tapping on cross side and bevel.
- Cross travel sub-spindle design, the main and sub-spindle can work either one at a time or simultaneously for reduced machining duration.
- This design bring multi-function front and rear machining.



●選配:Y2軸選配7支Evermore 抽換式動力刀座
Option:Y2 axis optional with Evermore removable 7pcs driven tool holder



●選配:背面選配Y2軸時可加選配立式鑽銑刀具刀座
Option: Optional Radial drilling tool holder when Y2 axis is selected on the sub-spindle

●主軸配內藏式馬達，標準配C軸，可選配高解析的CS軸。
●Main spindle is equipped with built-in motor, and the standard is equipped with C axis. A high-analytic CS axis is optional.

標準配件 STANDARD ACCESSORIES :

- ◆ 控制器：發那科0i-TF PLUS / 發那科31i-B (選配Y2軸)
- ◆ 主軸C軸定位
- ◆ 背主軸5°定位
- ◆ 工作燈
- ◆ 冷卻系統
- ◆ 外徑刀具刀座 ----- 5~7支
- ◆ 正面內徑刀具刀座 ----- 2~3支
- ◆ 背面內徑刀具刀座 ----- 4支
- ◆ 側面鑽銑刀具刀座 ----- 6/5支(配Evermore)
- ◆ 工件切斷檢測
- ◆ 工件收集器
- ◆ 同期迴轉套筒
- ◆ 正面內徑刀具刀座 ----- 2~3支
- ◆ 背面內徑刀具刀座 ----- 4支
- ◆ 側面鑽銑刀具刀座 ----- 6/5支(配Evermore)

- ◆ Controller : Fanuc 0i -TF PLUS / Fanuc 31i-B (Opt. Y2 axis)
- ◆ Main spindle C axis orientation
- ◆ Back spindle 5° orientation
- ◆ Working light
- ◆ Coolant system
- ◆ Part off detective sensor
- ◆ Part catcher
- ◆ Live bushing
- ◆ O.D turning tool holder ----- 5~7pcs
- ◆ Front I.D stationary tool holder --- 2~3pcs
- ◆ Back I.D stationary tool holder ----- 4pcs
- ◆ Cross working driven tool holder ----- 6 / 5pcs (with Evermore)

選擇附件 OPTION ACCESSORIES :

- ◆ 控制器：三菱 M80 / 三菱 M830 (選配Y2軸)
- ◆ 正面鑽銑刀具刀座 ----- 2支
- ◆ 斜角度鑽銑刀具刀座 ----- 3 / 6 / 8支
- ◆ 背面鑽銑刀具刀座 ----- 3 / 7支(選配Evermore)
- ◆ CS軸(0.001°定位-發那科 / 0.01°定位-三菱) ----- 主軸
- ◆ C軸定位 ----- 背主軸
- ◆ 排屑機 + 鐵屑車
- ◆ 粗料套筒
- ◆ Y2軸
- ◆ 主軸

- ◆ Controller : Mitsubishi M80 / Mitsubishi M830 (Opt. Y2 axis)
- ◆ Front working driven tool holder ----- 2pcs
- ◆ 360° b-axis bevel driven tool holder ----- 3 / 6 / 8pcs
- ◆ Back working driven tool holder ----- 3 / 7 pcs (Opt. Evermore)
- ◆ CS axis (0.001° orientation-Fanuc / 0.01° orientation-Mitsubishi) ----- Main spindle
- ◆ C axis ----- Sub-spindle
- ◆ Chip conveyer + Bucket
- ◆ Rough material bushing
- ◆ Y2 Axis



●背主軸配伺服馬達，標準是5度定位，可選配C軸。
●背主軸旁邊刀座放置2支固定及2支動力鑽，可前進後退，適合做深孔加工。

●Sub-spindle is equipped with servo motor, and the standard is 5 degree indexing. C-axis is optional.
●There are 2 fixed and 2 power drills on the tool holder beside the sub-spindle, which can move forward and backward. It is suitable for deep hole processing.

機械規格 : MACHINE SPECIFICATIONS :

項目	ITEMS	金鑽 25 CSL DIAMOND 25 CSL	金鑽 32 CSL DIAMOND 32 CSL	金鑽 42 CSL DIAMOND 42 CSL	
加工範圍 Working Range	最大加工外徑	Max. Turning Dia.	Ø26mm	Ø32mm	Ø42mm
	一次開夾最大加工長度	Max. machining length per chucking	250mm	250mm	250mm
	最大鑽孔直徑	Max. Drilling Dia.	Ø26mm	Ø26mm	Ø26mm
	最大攻牙外徑	Max. Tapping Dia.	M16	M16	M16
	刀具系統 Tooling System	外徑刀具數(B軸3/6支)	O.D. Tooling(B axis with 3/6 pcs)	6	6
外徑刀具數(B軸8支)		O.D. Tooling(B axis with 8 pcs)	7	7	6
外徑刀具尺寸		O.D. Tool Dimension	□16x16x120	□16x16x120	□16x16x120
(正面)內徑刀具數 (B軸3/6支)		(Front) I.D. Tooling(B axis with 3/6 pcs)	2	2	2
(正面)內徑刀具數 (B軸8支)		(Front) I.D. Tooling(B axis with 8 pcs)	3	3	2
內徑刀具尺寸		Tool Dimension	13mm (ER20)	13mm (ER20)	13mm (ER20)
(背面)內徑刀具數		(Back) I.D. Tooling	4	4	4
內徑刀具尺寸		Tool Dimension	13mm (ER20)	13mm (ER20)	13mm (ER20)
側銑刀具數		Cross Tooling	6	6	6
側銑刀具尺寸		Tool Dimension	13mm (ER20)	13mm (ER20)	13mm (ER20)
側銑刀具轉速		Speed	200~6000rpm	200~6000rpm	200~6000rpm
(選配)斜角度鑽銑刀具數(B軸3/6支)		(Opt.) Bevel Drill / Mill Tooling(B axis with 3/6 pcs)	3/6	3/6	3/6
(選配)斜角度鑽銑刀具數(B軸8支)		(Opt.) Bevel Drill / Mill Tooling(B axis with 8 pcs)	8	8	8
斜角度鑽銑刀具尺寸		Tool Dimension	13mm (ER20)	13mm (ER20)	13mm (ER20)
斜角度鑽銑刀具轉速		Speed	100~6000rpm	100~6000rpm	100~6000rpm
(選配)正面鑽銑刀具數	(Opt.) Front Drilling Tooling	2	2	2	
正面鑽銑刀具尺寸	Tool Dimension	13mm (ER20)	13mm (ER20)	13mm (ER20)	
正面鑽銑刀具轉速	Speed	200~6000rpm	200~6000rpm	200~6000rpm	
(選配)背面鑽銑刀具數	(Opt.) Back Drilling Tooling	3	3	3	
背面鑽銑刀具尺寸	Tool Dimension	13mm (ER20)	13mm (ER20)	13mm (ER20)	
背面鑽銑刀具轉速	Speed	100~4000rpm	100~4000rpm	100~4000rpm	
主軸 Spindle	主軸內徑	Spindle Hole Dia.	Ø26mm	Ø33mm	Ø42mm
	主軸轉速	Spindle Speed	200~7000rpm	200~7000rpm	200~5000rpm
	主軸定位	Indexing	C axis	C axis	C axis
	背主軸內徑	Back Spindle Hole Dia.	Ø25mm	Ø33mm	Ø42mm
背主軸 Back Spindle	背主軸轉速	Back Spindle Speed	200~6000rpm	200~6000rpm	200~5000rpm
	背主軸定位	Indexing	5°	5°	5°
	前面出料最大長度	Max. length for front ejection	70mm	70mm	70mm
	背面加工長度	Max. workpiece projection length from the back spindle	120mm	120mm	120mm
	背面最大鑽孔直徑	Max.Back Drilling Dia.	Ø16mm	Ø16mm	Ø16mm
快速位移 Rapid Traverse	X1, Z1, Y1, X2, Z2軸	X1, Z1, Y1, X2, Z2 Axes	18 or 30 m/min	18 or 30 m/min	18 or 30 m/min
	(選配) Y2 軸	(Opt.) Y2 Axis	18 or 30 m/min	18 or 30 m/min	18 or 30 m/min
	主軸馬達	Main Spindle Motor	3.7/5.5kW	3.7/5.5kW	18.5/30kW
馬達 Motors	背軸馬達	Back Spindle Motor		2.2kW	
	X1, Z1, Y1, X2, Z2軸馬達	X1, Z1, Y1, X2, Z2 Axes Motor		1.2kW	
	(選配) Y2, B軸馬達	(Opt.) Y2, B Axes Motor		0.75kW	
	側面鑽銑馬達	Cross driven spindle Motor		2.2kW	
	(選配) 斜角度鑽銑馬達 (B軸3/6支)	(Opt.) Bevel driven spindle Motor(B axis with 3/6 pcs)		1kW	
	(選配) 斜角度鑽銑馬達 (B軸8支)	(Opt.) Bevel driven spindle Motor(B axis with 8 pcs)		2.2kW	
	(選配) 背面鑽銑馬達	(Opt.) Back driven spindle Motor		0.75kW	
	(選配Y2軸) 背面鑽銑馬達	(Opt. Y2 Axis) Back driven spindle Motor		1kW	
	切削油馬達	Coolant Pump		0.75kw x 2	
	潤滑油馬達	Lubrication		4w x 2	
機械尺寸 Machine Dimensions	主軸中心高	Center Height	960mm / 1020mm(電器箱外掛 a plug-in electrical cabinet)		
	重量	標準 Standard	3988 / 4368(Opt. Y2)	4088 / 4468(Opt. Y2)	
	電器箱外掛 a plug-in electrical cabinet		4550 / 4930(Opt. Y2)	4650 / 5030(Opt. Y2)	
氣壓 Air	空氣壓力	Air Pressure		5kg/cm	
	空氣量	Air Supply		10L/min	

因長期研發，機械設計如有變更恕不另行通知。 We reserve the right to change the above design without prior notification.