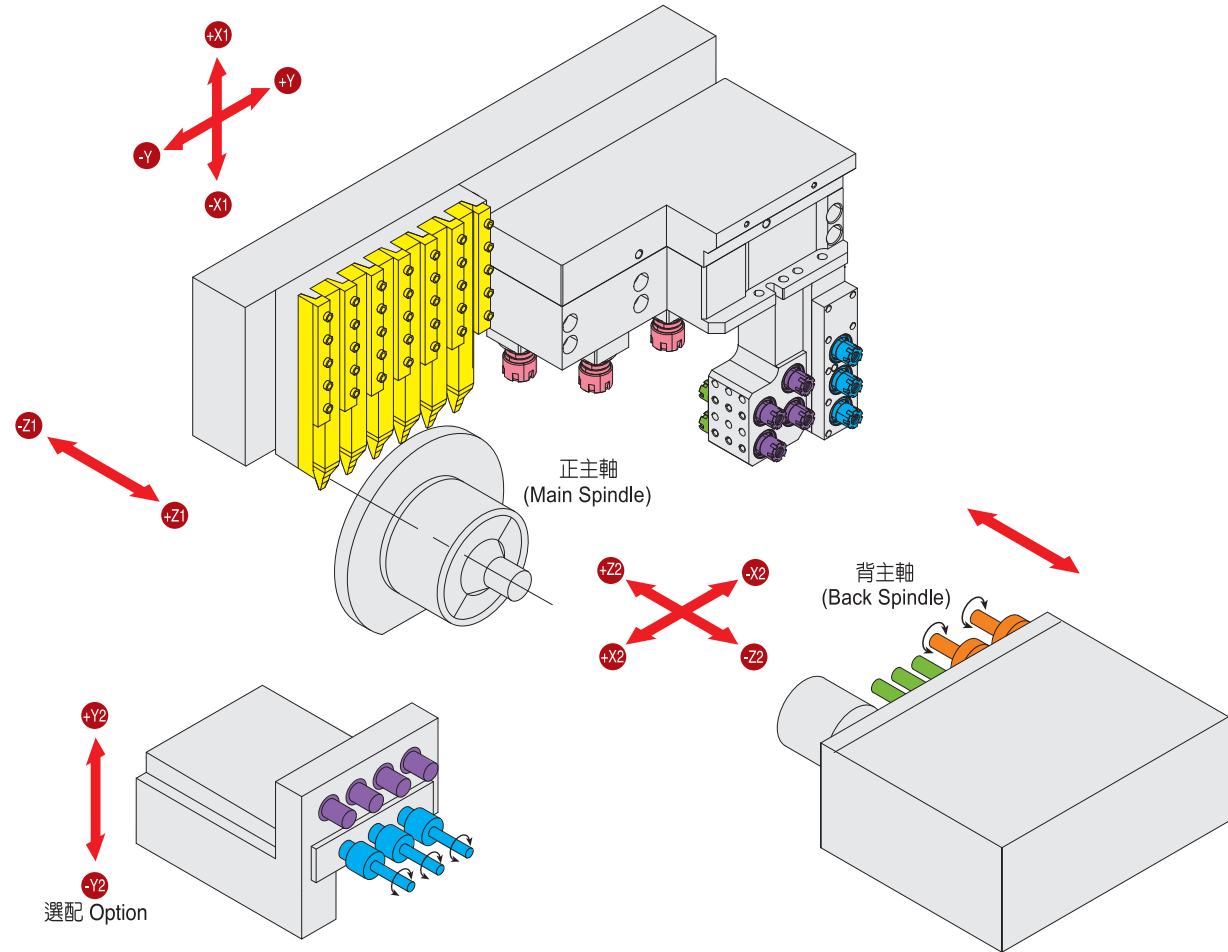


- 取消B軸配8支斜角度刀具刀座換配端側一體刀座
Cancel the 8 pcs B-axis bevel driven tool holder and replace a off-center driven tool holder



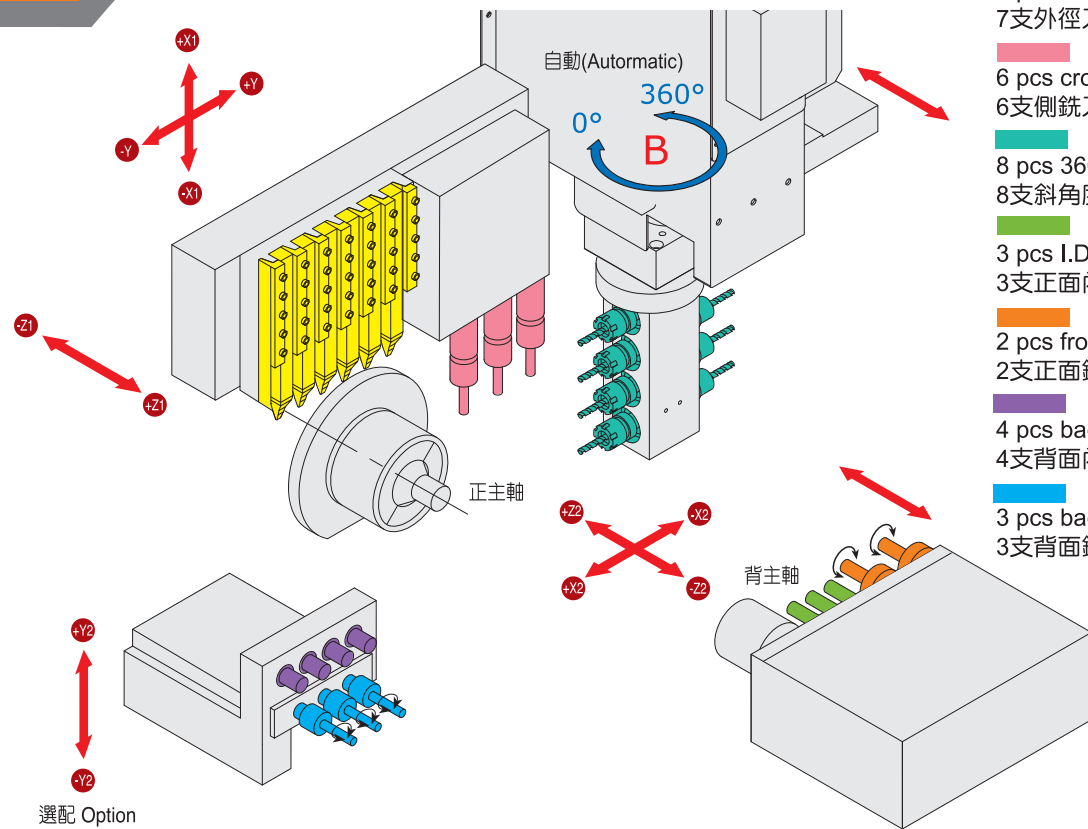
- | | |
|-----------------------|--|
| 7支外徑刀具刀座(42型6支) | 7 pcs O.D Turning tool holder (42 CSL 6pcs) |
| 6支側面鑽銑刀具刀座 | 6 pcs Cross working driven tool holder |
| 4支+3支(42型2支)正面內徑 刀具刀座 | 4 pcs + 3 pcs (42 CSL 2pcs) Front I.D stationary tool holder |
| 3支+2支正面鑽銑刀具刀座 | 3 pcs + 2 pcs Front working driven tool holder |
| 4支+4支背面內徑刀具刀座 | 4 pcs + 4 pcs Back I.D stationary tool holder |
| 3支+3支背面鑽銑刀具刀座 | 3 pcs + 3 pcs Back working driven tool holder |

標準配件 STANDARD ACCESSORIES :

- | | |
|-----------------------------------|--|
| ◆ 控制器: 三菱 | ◆ 正面內徑刀具刀座 3支(42型2支) |
| ◆ 主軸C軸定位 | ◆ 背面內徑刀具刀座 4支 |
| ◆ 背主軸5°定位 | ◆ 正面/背面內徑刀具刀座 4/4支 |
| ◆ 工作燈 | ◆ 正面/背面鑽銑刀具刀座 3/3支 |
| ◆ 冷卻系統 | ◆ 外徑刀具刀座 7支(42型6支) |
| ◆ 同期迴轉套筒 | ◆ 側面鑽銑刀具刀座 6或5支(配Evermore) |
| ◆ Controller : Mitsubishi | |
| ◆ Main spindle C axis orientation | ◆ O.D turning tool holder 7pcs (42CSL 6pcs) |
| ◆ Back spindle 5° orientation | ◆ Front I.D stationary tool holder 3pcs (42CSL 2pcs) |
| ◆ Working light | ◆ Back I.D stationary tool holder 4pcs |
| ◆ Coolant system | ◆ Front/Back I.D stationary tool holder 4/4pcs |
| ◆ Part off detective sensor | ◆ Front/Back working driven tool holder 3/3pcs |
| ◆ Part catcher | ◆ Cross working driven tool holder |
| ◆ Live bushing | 6 or 5pcs(with Evermore) |

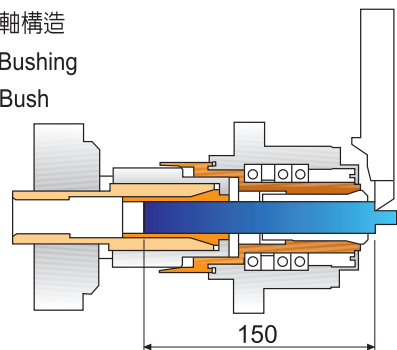
選擇附件 OPTION ACCESSORIES :

- | | |
|--|--------------------------|
| ◆ 控制器: 發那科 | ◆ 排屑機 + 鐵屑車 |
| ◆ 正面鑽銑刀具刀座 2支 | ◆ 粗料套筒 |
| ◆ 背面鑽銑刀具刀座 3 / 7 支(選配Evermore) | ◆ Y2軸 |
| ◆ CS軸(0.001°定位-發那科 / 0.01°定位-三菱) 主軸 | |
| ◆ C軸定位 背主軸 | |
| ◆ Controller : Fanuc | |
| ◆ Front working driven tool holder 2pcs | |
| ◆ Back working driven tool holder 3 / 7pcs(Opt. Evermore) | |
| ◆ CS axis (0.001° orientation-Fanuc / 0.01° orientation-Mitsubishi) | Main spindle |
| ◆ C axis Sub-spindle | ◆ Rough material bushing |
| ◆ Chip conveyer + Bucket | ◆ Y2 Axis |



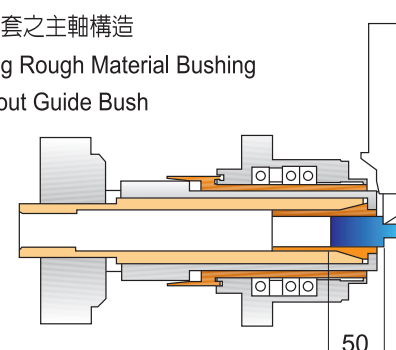
- 7 pcs O.D turning tool holder (42CSL 6pcs)
7支外徑刀具刀座(42型6支)
- 6 pcs cross working driven tool holder
6支側銑刀具刀座
- 8 pcs 360° B axis bevel driven tool holder
8支斜角度鑽銑刀具刀座
- 3 pcs I.D stationary tool holder (42CSL 2 pcs)
3支正面內徑刀具刀座(42型2支)
- 2 pcs front off-center driven tool holder
2支正面鑽銑刀具刀座
- 4 pcs back I.D stationary tool holder
4支背面內徑刀具刀座
- 3 pcs back off-center driven tool holder
3支背面鑽銑刀具刀座

有導套之主軸構造
Using Live Bushing
with Guide Bush

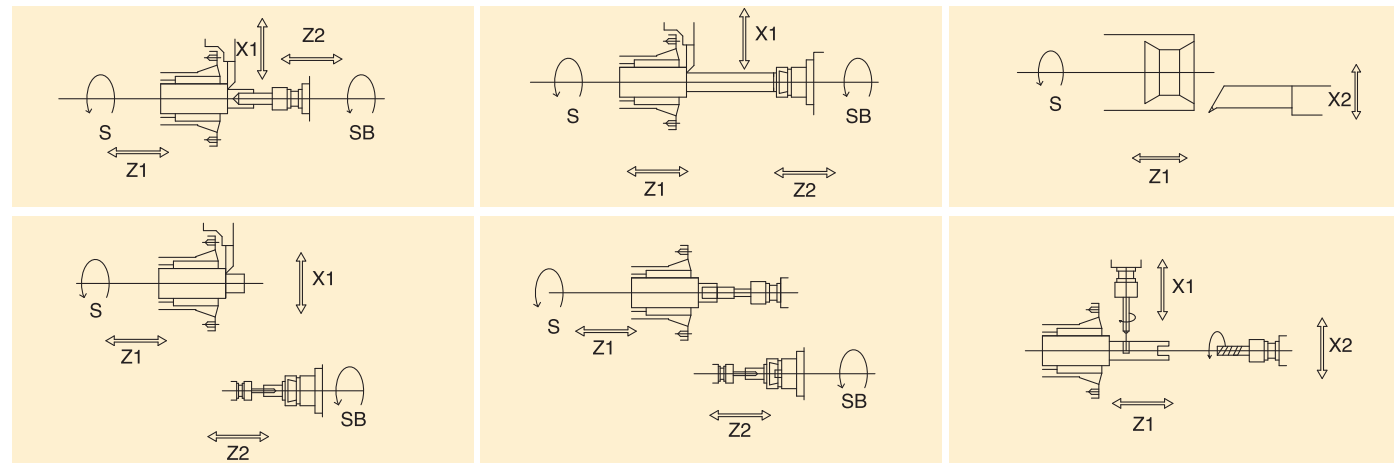


剩餘材料 Remnant Material 150 mm

無導套之主軸構造
Using Rough Material Bushing
without Guide Bush



剩餘材料 Remnant Material 50 mm



POLY GIM

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POLY GIM

DIAMOND

CSL

走心式CNC自動車床
25/32/42 SERIES

SWISS TYPE CNC AUTO LATHE

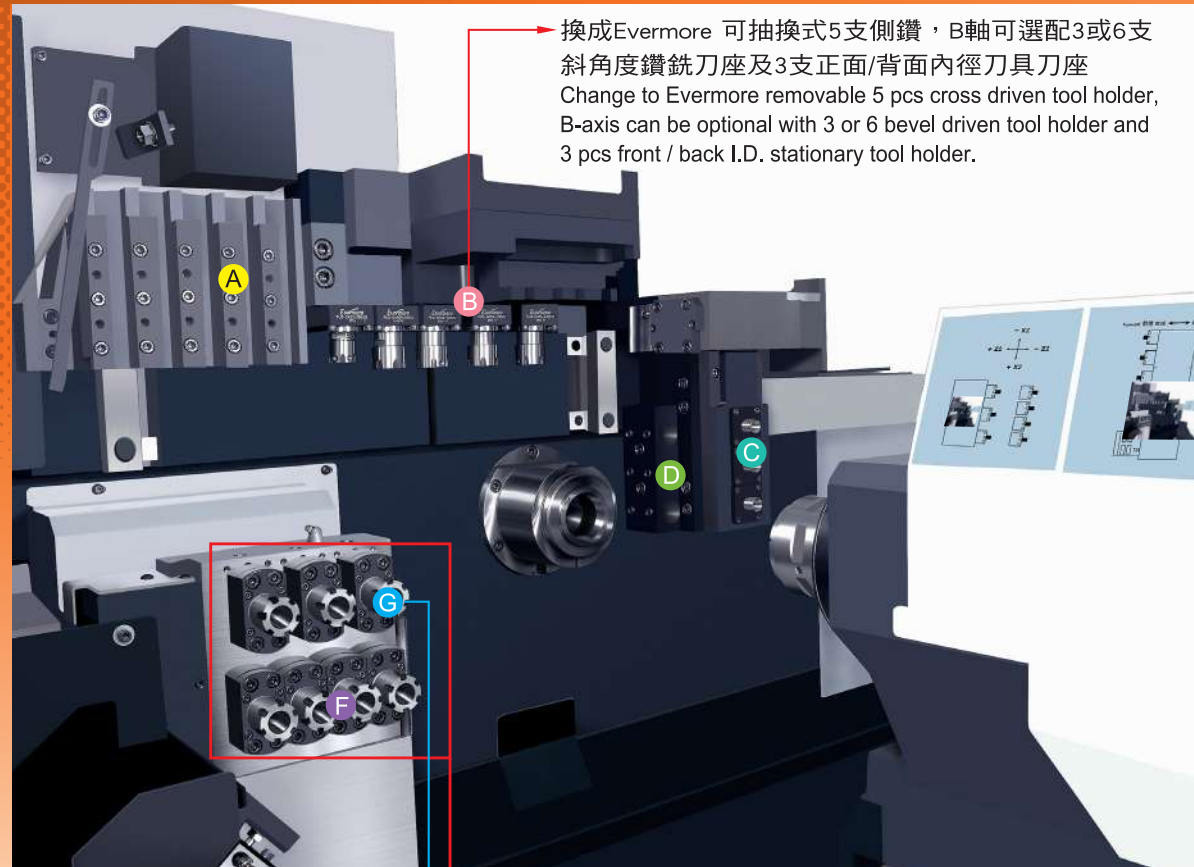
SIMPLICITY • PRECISION • SPEED • DURABILITY • STABILITY



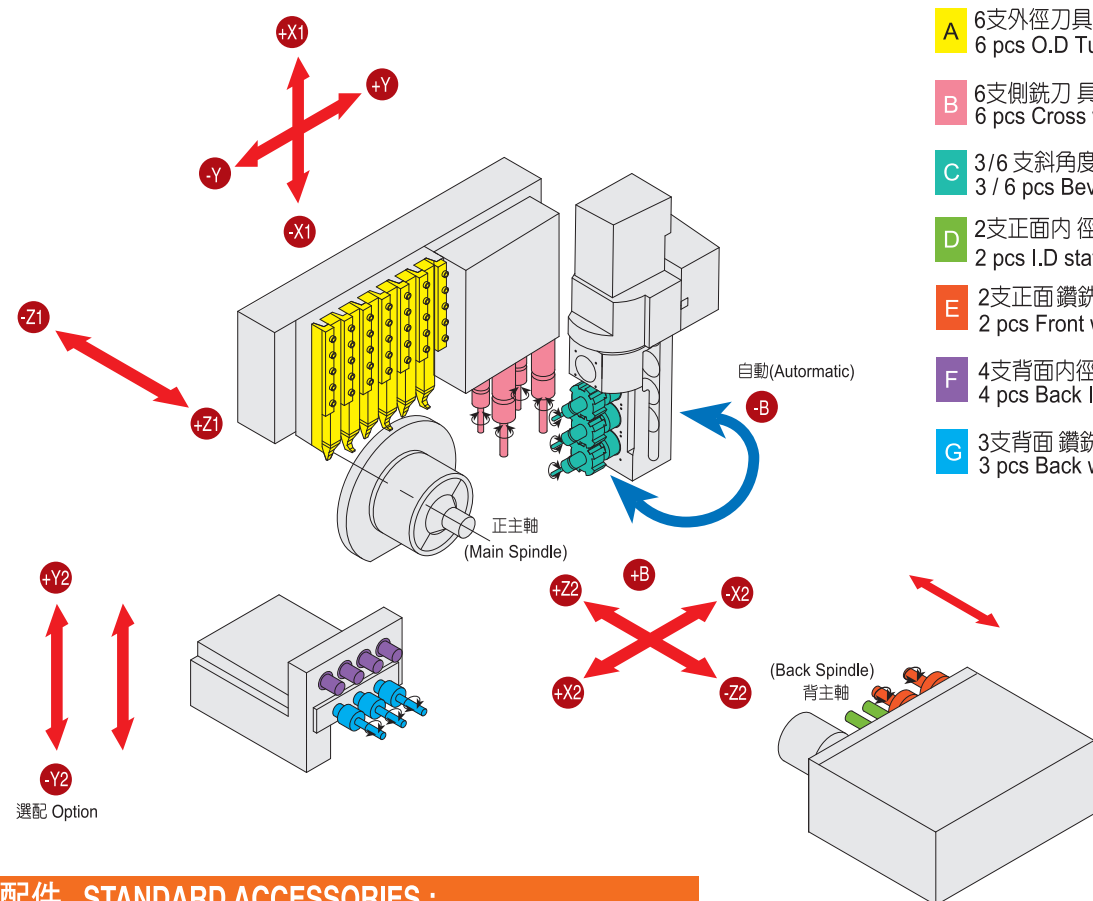
The lastset DIAMOND CSL series is the type long awaited by users who are in the field requiring back-face or second machining!

眾人引頸盼望
功能超乎想像

走心
走刀
兩用式車床



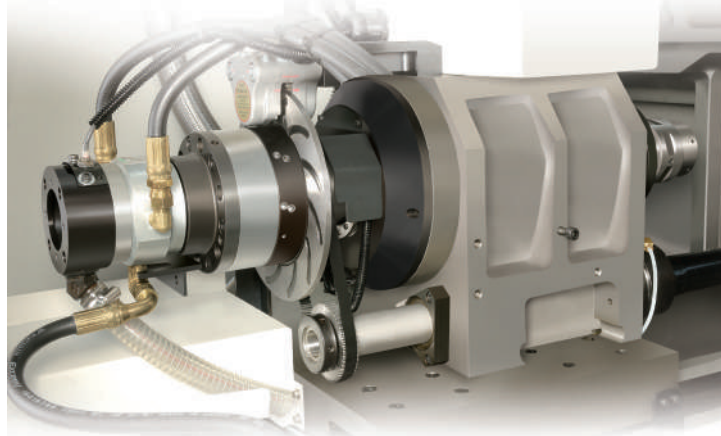
換成Evermore 可抽換式5支側鑽，B軸可選配3或6支斜角度鑽銑刀具座及3支正面/背面內徑刀具座
Change to Evermore removable 5 pcs cross driven tool holder, B-axis can be optional with 3 or 6 bevel driven tool holder and 3 pcs front / back I.D. stationary tool holder.



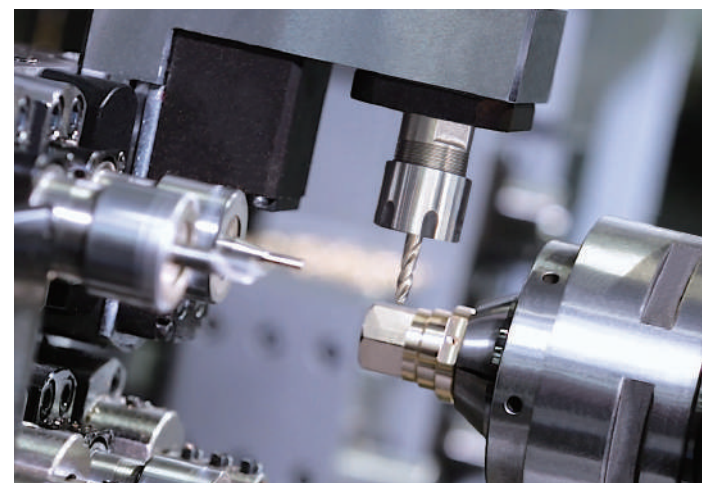
- A** 6支外徑刀具座(42型5支)
6 pcs O.D Turning tool holder (42 CSL 5pcs)
- B** 6支側銑刀 刀具座
6 pcs Cross working driven tool holder
- C** 3/6 支斜角度 鑽銑刀具座
3 / 6 pcs Bevel driven tool holder
- D** 2支正面內 徑刀具座
2 pcs I.D stationary tool holder
- E** 2支正面鑽銑刀刀具座
2 pcs Front working driven tool holder
- F** 4支背面內徑刀具座
4 pcs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

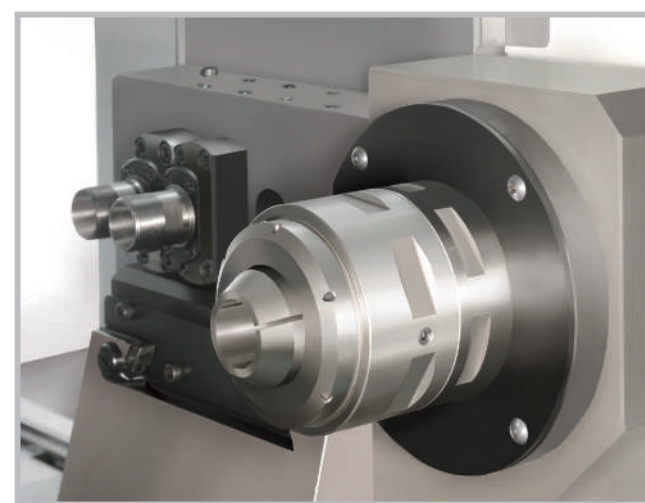
- ◆ 控制器：三菱
- ◆ 主軸C軸定位
- ◆ 背主軸5°定位
- ◆ 工作燈
- ◆ 冷卻系統
- ◆ 工件切斷檢測
- ◆ 工件收集器
- ◆ 同期迴轉套筒
- ◆ 外徑刀具座..... 5~7支
- ◆ 正面內徑刀具座..... 2~3支
- ◆ 背面內徑刀具座..... 4支
- ◆ 側面鑽銑刀具座..... 6/5支(配Evermore)

- ◆ Controller : Mitsubishi
- ◆ 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)

選擇配件 OPTION ACCESSORIES :

- ◆ 控制器：發那科
- ◆ 正面鑽銑刀具座..... 2支
- ◆ 斜角度鑽銑刀具座..... 3 / 6 / 8支
- ◆ 背面鑽銑刀具座..... 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

- ◆ Controller : Fanuc
- ◆ 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. | Ø15mm | Ø15mm | Ø15mm |
| | 最大攻牙外徑 | Max. Tapping Dia. | M12 | M12 | M12 |
| 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 | 5 |
| | 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 |
| 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 | 5.5kW | 5.5kW | 7.5 kW |
| | 背軸馬達 | Back Spindle Motor | | 3.7kW | |
| 馬達 Motors | X1, Z1, Y1, X2, Z2軸馬達 | X1, Z1, Y1, X2, Z2 Axes Motor | | 1kW | |
| | (選配) Y2, B軸馬達 | (Opt.) Y2, B Axes Motor | | 1kW | |
| | 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 | | 1.5 kW | |
| | 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.