

CHEVALIER®

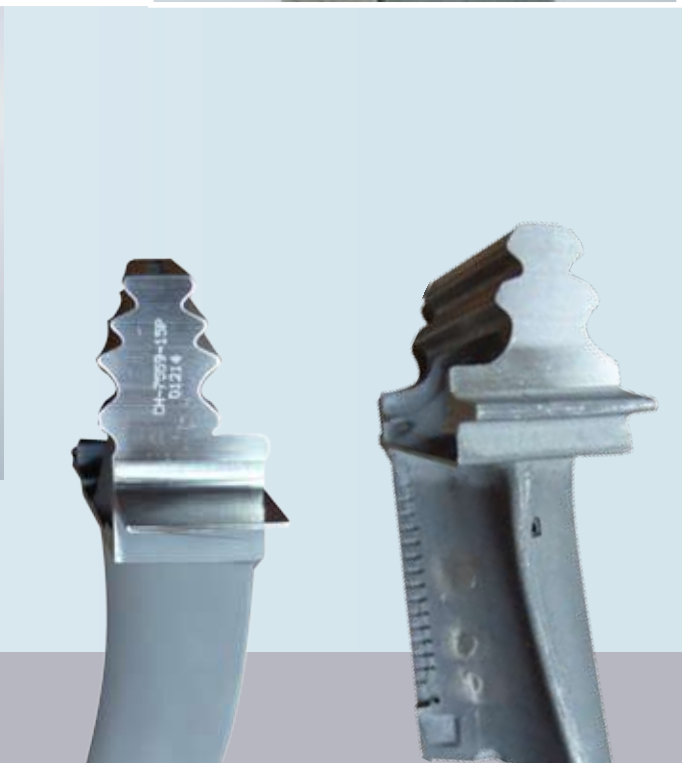
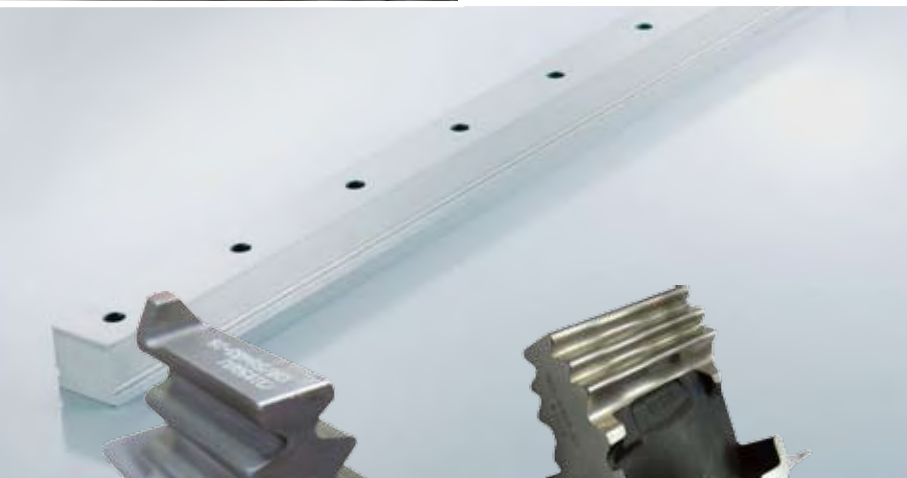
FPG-V1632DC

Double Spindle CNC Grinder

超精密雙主軸CNC磨床



Double Spindle CNC Grinder 超精密雙主軸CNC磨床



SPECIFICATION 機 械 規 格

Description/項 目		FPG-V1632DC
Table size/工作台面積		400x800mm(15.7"x31.5")
Max. grinding Length/最大研磨長度	Longitudinal/縱向	800mm(31.5")
Max. Grinding Width/最大研磨寬度	Crossfeed/橫向	150mm(5.9")
Max. Distance between table and Grinding wheel surface		400mm(15.7")
Table Longitudinal Movement (X-axis) 工作台縱向移動	Max. Table Loading Capacity/工作物最大重量	500kg(1100lbs)
	T-Slot X No./T 型槽尺寸x個數	14mmx3(0.55"x3)
	Table Speed/工作台速度	0~18m/min(0~59fpm)
	Max. Table stroke/工作台最大行程	900mm(35.4")
Crossfeed Stroke 機身橫向移動	Max. movement (Y/V axis)/最大移動行程	7.9"(200mm)Single head movement/單邊輪頭移動
	Traveling Speed /移動速度	0~2m/min(0~6.5fpm)
	Min. Input value/最小輸入單位	0.001(0.00005")
	Auto.Crossfeed stroke setting/自動橫向移動行程設定	NC
Grinding Head Up/Down (Z/W axis) 輪頭上下進給	Max. movement/最大移動行程	200mm(7.9")
	Min. Input value/最小輸入單位	0.001mm(0.000050")
	Traveling Speed/移動速度	0~2m/min(0~6.5fpm)
	Auto. Feeding /自動進給	NC
Spindle Drive 主軸驅動	RPM/轉速	500~2000rpm
	Rated HP/額定馬力	AC Servo, 18.5/30kw Opt.(25/40HP Opt. 30 Min.)
Wheel Size 建議使用砂輪	OD/外徑xWidth/寬度xID/內徑	450mmx50x127mm(17.7"x2"x5")
Machine Net Weight, Approx 重量淨重		12500kgs(27500 lbs)
Rated Horse Power, Approx 總額定馬力(約)		56/75kw Opt.(75/100HP Opt.)
Floor Space (L X W X H) 佔地面積(長x寬x高)		3080x6260x3270mm(121"x246"x129")
Controller 控制系統		FANUC 18i
Coolant Tank Capacity 水機容量		2000L

Notice: The manufacturer reserves the right to modify the design, specifications, mechanisms....etc. of the machine without notice. All the specifications shown above are just for reference.

※本公司隨時在進行研究改進的工作，因此保有隨時更改設計、規格尺寸及機械結構的權利。

STD. ACCESSORIES

標準附件

- | | | |
|--------------------------|---------------------------|----------------------------------|
| 1. Wheel Flange | 6. Work Light | 11. Open head Wrench Set |
| 2. Grinding Wheel Carton | 7. Wheel Balancing Arbor | 12. Leveling pads |
| 3. Grinding Wheel | 8. Wheel Dismantle Wrench | 13. Touch-up paint |
| 4. Diamond Dresser Seat | 9. Screw Driver | 14. Magentic chuck setting screw |
| 5. Tool + Tool Box | 10. Hex-Head Wrench Set | |
| 1. 砂輪殼 | 6. 工作燈 | 11. 開口板手組 |
| 2. 砂輪紙箱 | 7. 調衡軸 | 12. 腳墊 |
| 3. 砂輪 | 8. 分解板手 | 13. 油漆灌 |
| 4. 鑽石筆座組 | 9. 螺絲起子 | 14. 地基螺栓、螺帽 |
| 5. 工具箱 | 10. 六角板手組 | 15. 主軸螺帽 |
| | | 16. 磁鐵固定螺栓 |

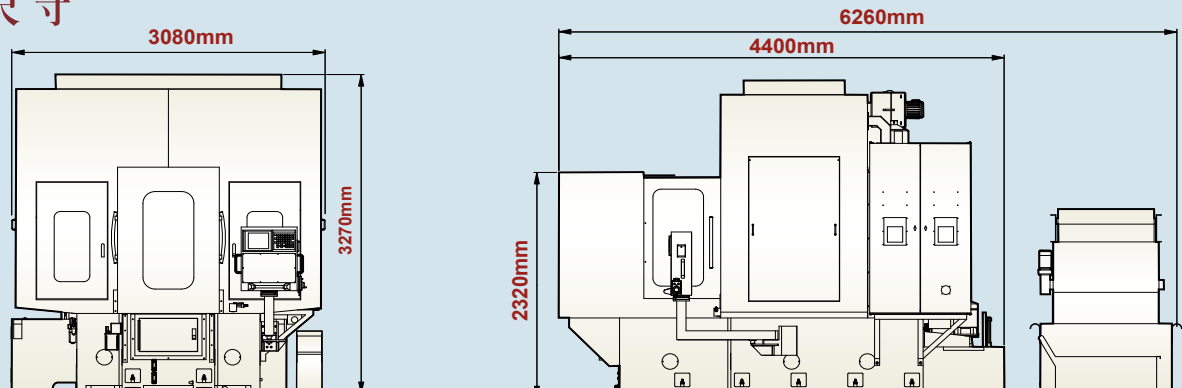
Opt. ACCESSORIES

特別附件

- 輪轉式平衡台
- 砂輪殼
- 單頭輓輪修整器(不含鑽石輓輪)
- 過濾水機
- 砂輪式平衡台
- Roller Type Wheel Balancing Stand
- Wheel Flange
- Single Roller Wheel Dresser (Diamond Roller Excluded)
- Coolant System
- Wheel Balance System

DIMENSIONAL DRAWINGS

機械尺寸



雙頭並進，效率加倍，精度提升

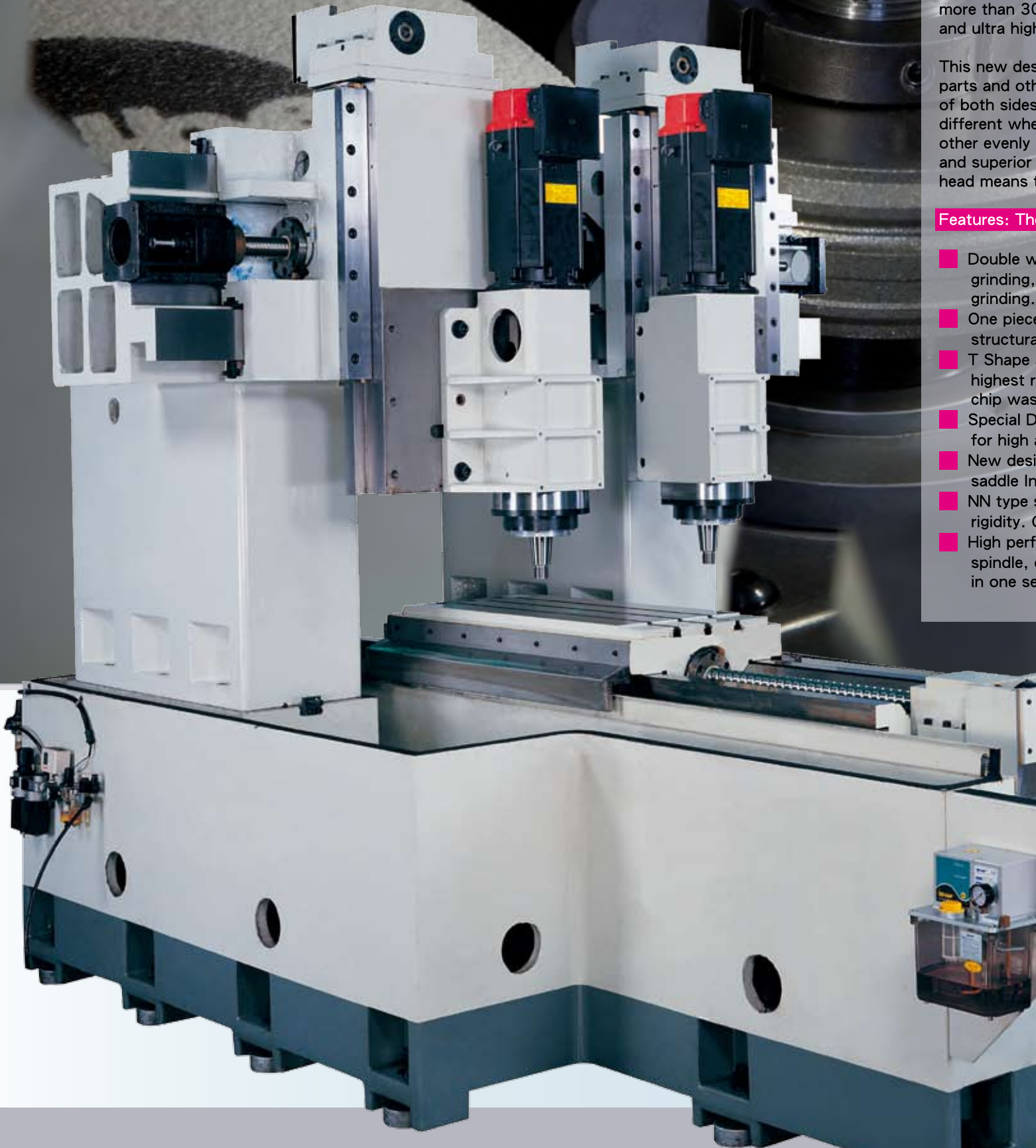
CHEV
GAN

Revolutionary
Double head
metal removal
more than 30
and ultra high

This new des
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and superior
head means t

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FALCON DUAL HEAD SLANT TYPE CNC GRINDER

Double head root grinding halves cycle times
Double grinding utilizes new grinding techniques that allow high grinding rates with higher accuracy. Falcon company accumulated 30 years of grinding experiences in designing high efficiency and precision grinding machine.

The designed double-head grinder is aimed for upgrading aerospace and other high accuracy parts that require simultaneous grinding of two sides of the workpiece or multi-sided grinding using up to 4 wheels. Such as turbine blade root double-side grinding or geometric parts double side grinding with high efficiency and double side ground surfaces parallel accuracies. The dual head grinds twice the speed, rigidity and productivity.

The most important benefit "Accuracy and efficiency "

The wheel head is available for individual or simultaneous grinding and cooperate with indexing table can perform multi-face grinding.

The cast gantry and double column design, providing maximum rigidity.

The rigid and massive inner ribbed machine base design for high rigidity. with large dual coolant drain channels for quick discharge.

The designed large "V" shaped longitudinal slide way design provides accurate transmission and grinding.

The design concept of Slant type Box Way Design hold the sliding table in the position.

The spindle bearing design, providing utmost dynamic grinding accuracy. CNC Automatic Wheel disc dresser with auto compensation.

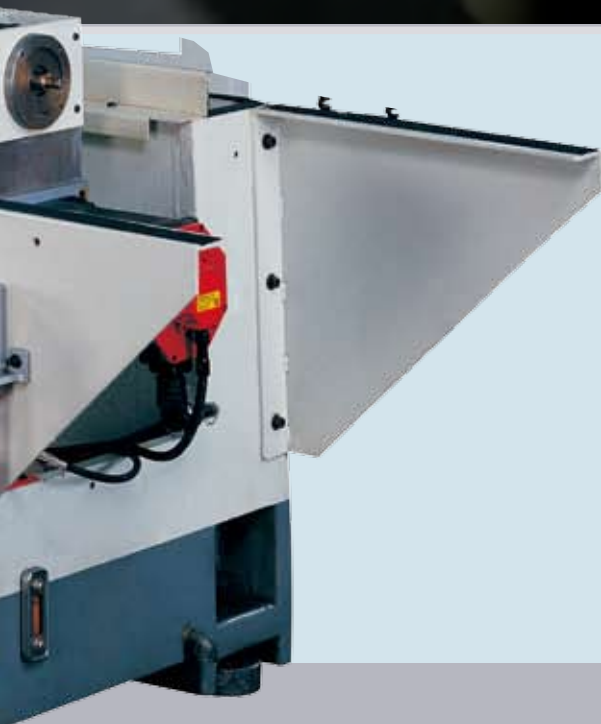
The performance double grinding wheels can be mounted on each side. cooperates with an Indexing table, can grinding four sides at one set up.

FPG-V1632DC 雙面成形CNC 磨床

福裕公司針對航太及高精密難加工零件，累積三十多年之研磨技術經驗，研發出高效率高精度雙磨頭磨床，針對安裝在工作台上的工件兩面做同時磨削，尤其適用於磨削飛機渦輪機和汽輪機頁片根部以及其它各種對稱面難磨材料零件之雙面成型一次研磨。使研磨機發揮更大的加工功能，達到一次多面加工，高效能、高精密度、易操作之特性。高效率渦輪葉片葉根及其他工件雙面重切研磨，只需1/2加工時間。

設計特色:

- 左右雙磨頭、雙鞍座、雙螺桿可獨立或同時控制進刀進給速度,升降也是採雙滑座、雙螺桿獨立進刀系統機構，能進行單獨或聯動控制，實現雙面高效自動磨削循環，具有高度的精度可靠性和穩定性能。
- 橫樑採用一體鑄造高剛性門型設計，提供最高動態研磨剛性。
- 一體式T型底座設計，配合雙列式大排水槽，能快速排除大量磨屑與切削液。
- 特殊設計大"V"式工作台軌道，大幅提升研磨鋼性與精度。
- 獨特斜坡式硬軌設計，更發揮研磨特性與穩定之精度。
- 25/40HP(Opt.)強力伺服主軸馬達，主軸頭搭配NN軸承配置，提供超強之研磨鋼性。
- 砂輪用鑽石輓輪修整，砂輪修整器安裝於工作台上，可分別修整左右兩個砂輪，確保工件雙磨削成型的對稱性。
- 輪頭可裝雙砂輪，配合工作台分度頭可作葉根四邊研磨。



Features:/特性:

- High Speed & High Accuracy.
高效率&高精度
- Parallelism of workpiece is equal or better than 0.003/300mm.
工件平行度可達：0.003/300mm 或更佳

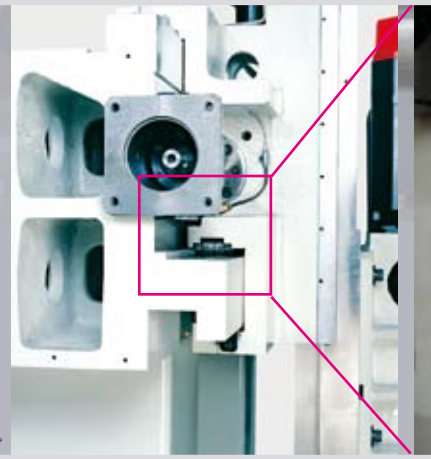
FPG-V1632L



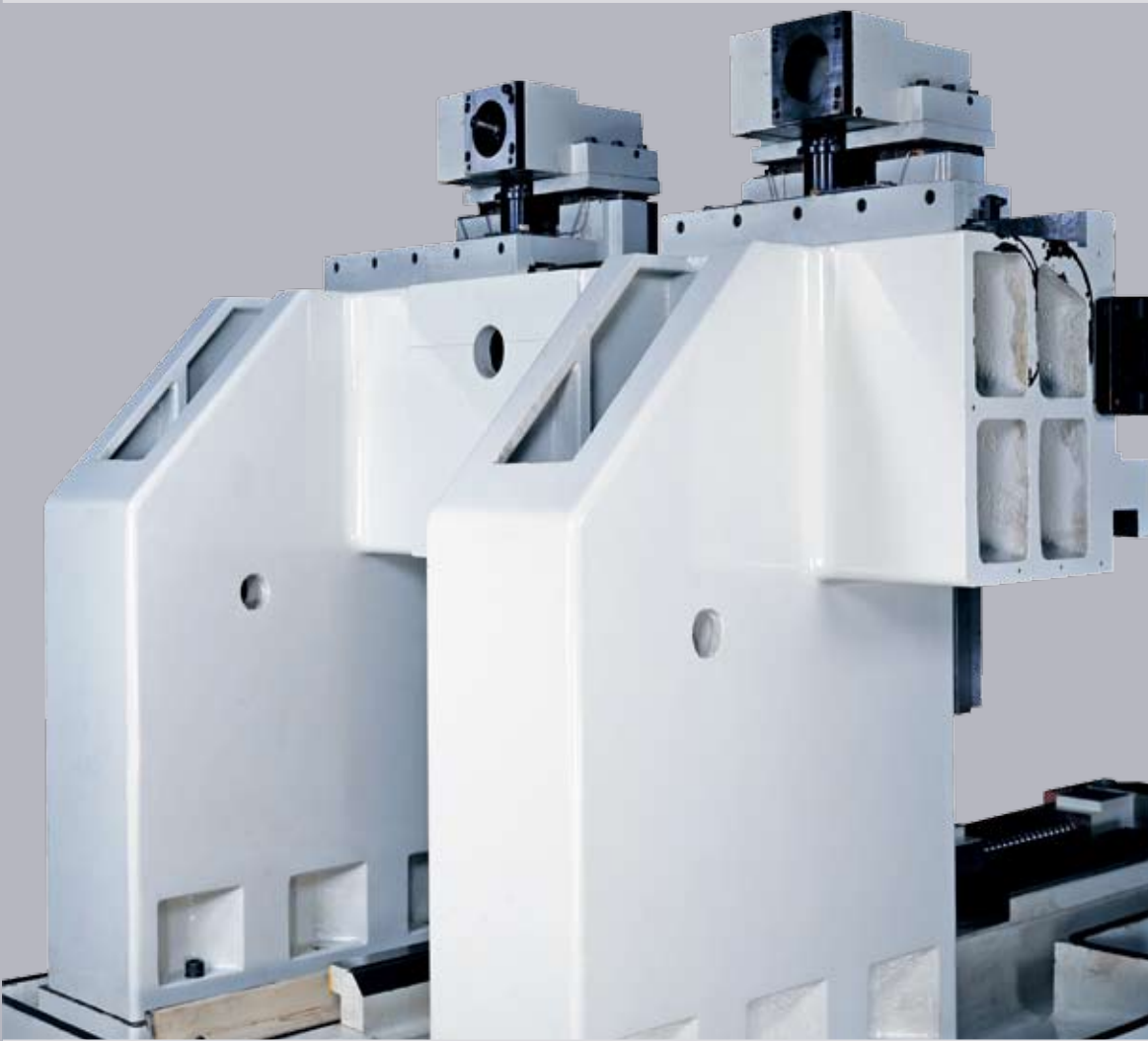
T Shape and massive inner ribbed machine base design for highest rigidity.
一體式T型底座設計，配合雙列式大排水槽，能快速排除大量磨屑與切削液。



Fanuc 18iMC control system
Fanuc 18iMC 控制器



Hybrid box way + roller pack beam structure for high accuracy.
複合式橫樑軌道為方型硬軌+滾柱滑塊



One piece cast gantry and double column design, providing max. structural rigidity.
橫樑採用一體鑄造高剛性門型設計，提供最高動態研磨剛性。



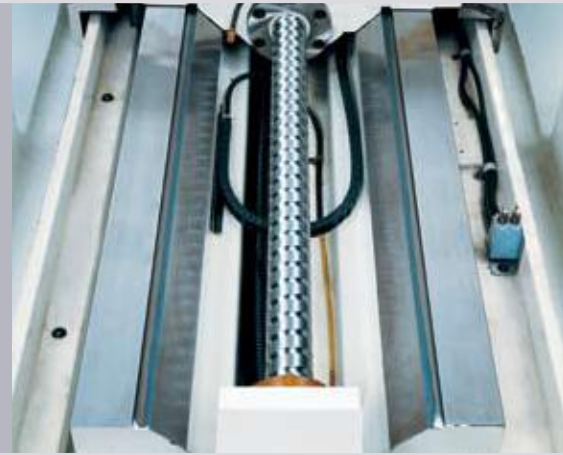
NN type spindle bearing design
25/40HP(Opt.)強力伺服主軸馬

DC Double Spindle CNC Grinder

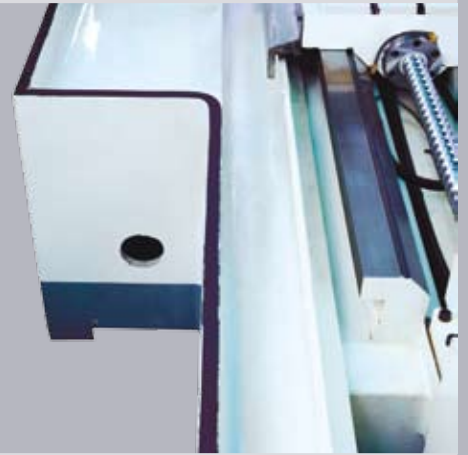
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Slide ways design for both rigidity and accuracy,兼顾鋼性與精度。



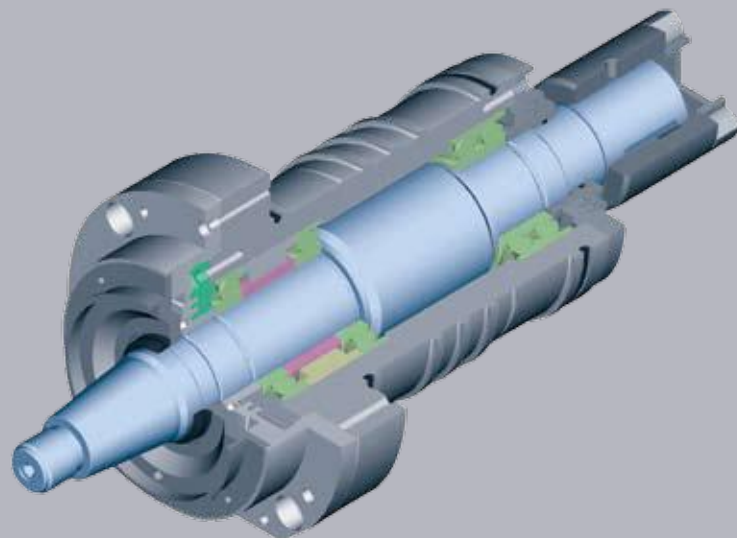
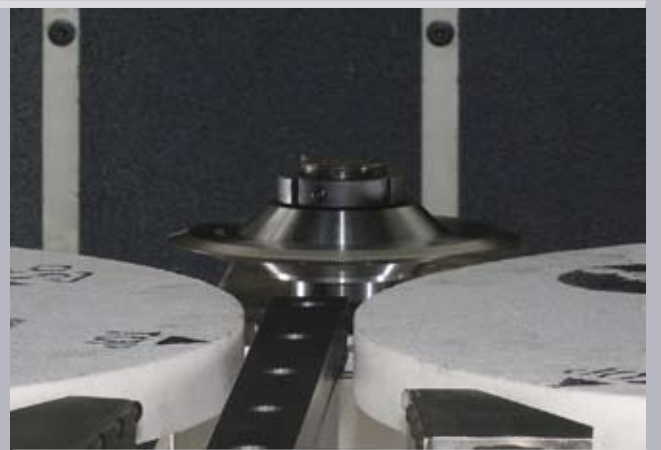
Special Designed large "V" shaped longitudinal slide way design for high accurate transmission and grinding. 特殊設計大 "V" 式工作台軌道，大幅提升研磨鋼性與精度。



With large dual coolant drain channels for quick chip wash. 左右雙列式大型排水槽，能快速排除大量磨屑與切削液。



Double wheel head is available for individual or simultaneous grinding, cooperate with indexing table can perform multi-face grinding. High performance double grinding wheels can be mounted on each spindle, cooperates with an indexing table, can grinding four sides in one set up. 左右雙磨頭、雙鞍座、雙螺桿可獨立或同時控制進刀進給速度，升降也是採雙滑座、雙螺桿獨立進刀系統機構，能進行單獨或聯動控制，實現雙面高效自動磨削循環，具有高度的精度可靠性和穩定性能。輪頭可裝雙砂輪，配合工作台分度頭可作葉根四邊研磨。



Design, providing utmost dynamic grinding rigidity. 設計，主軸頭搭配NN軸承配置，提供超強之研磨鋼性。

福裕精品 匠心獨運

JUSTIFIABLE MANUFACTURING SOLUTIONS



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