

Sunmill
your best partner

JHV

CNC VERTICAL MACHINING CENTER

立式加工中心機
JHV-710



晶禧科技股份有限公司



Optimum Structural Design

- 主結構鑄件採用高品質米滿納鑄鐵，經熱處理消除內應力，組織穩定，確保最佳剛性與精度持久性。
- 三軸採用精密線軌，可快速移動並支撐重負荷，確保定位精準。
- 立柱底部加寬設計，加強接觸面，提昇機台加工時之穩定性及抗震性。
- The machine structure is constructed from high quality Meehanite cast iron and stress released to ensure great rigidity and prolonged precision.
- All axes with high precision linear guideway ensure rapid movement and accurate positioning.
- The column bottom is specially designed with A-shaped structure to increase machine stability while machining.

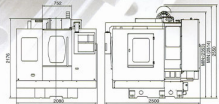


線軌機種 LINEAR GUIDEWAY JHV Series

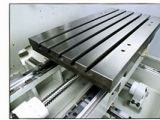
最具經濟型的好幫手：小空間、高效率

Economic Machinery:
Small Package Makes Big Money

Machine Dimensions



Working Table



精密滾珠螺桿
三軸採用C3級精密滾珠螺桿，配合預拉設計，預先消除背隙及溫升熱變位，展現機台之定位精度及重複定位精度。

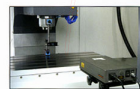
Precision BallScrew
Pre-tensioned ballcrews on X, Y, Z axes ensure accuracy and eliminate positioning error.



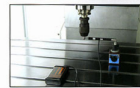
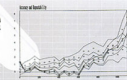
- 頭部標準設有主軸吹氣裝置，另可外加選擇主軸油溫控制，降低主軸因高速運轉產生之外熱能，確保主軸精度，延長主軸壽命。
- 主軸外圍設計有冷卻循環用溝槽。
- Headstock design with spindle air blast system, also there is spindle oil cooling device available as options to eliminate heat cause of spindle high speed rotation, ensure spindle accuracy and life lasting.
- Belt type headstock with standard speed 8000rpm. Direct Drive spindle is optional accessories for less vibration and noise, available speed 10,000rpm / 12,000rpm / 15,000rpm.

品質控管
幾何精度檢驗、主軸動平衡校正、循環測試、雷射檢驗、實際加工測試。

Strict Quality Control
Geometric Accuracy Inspection, Spindle Balancing Adjustment, Ball Bar Test, Laser Inspection, Cutting Test.



雷射檢驗
本機運用先進的雷射儀器，檢驗機性精度，並提供圖報，誤差的補償參考，以達到最佳的行程精度。



循環測試
透過循環測試，精準掌控負載度，幾何誤差以及背隙，確保機械加工精度。



單位/Unit: μm

標準配件&選購配件 STANDARD & OPTIONAL ACCESSORIES

皮帶式主軸 Belt Drive Spindle

●標準主軸轉速：8000RPM，另可選購10000、12000RPM
Standard spindle speed: 8000RPM, Options 10000, 12000RPM available.

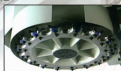
●Spindle taper / 主軸錐度BT-40

直結式主軸(選購配備) Direct Drive Spindle (optional)

●Choice of spindle speeds / 主軸轉速：
10000, 12000, 15000 RPM

●Spindle taper / 主軸錐度BT-40

斗笠式刀庫 Carousel Type ATC



本機標準配備斗笠式刀庫，刀庫容量為16刀，適合各種加工作業需求，固定式選刀，提供快速換刀，減少非切削時間之浪費。

The carousel type magazine is standard equipment. It carries 16 tools for various types of machining applications. Fixed tool selection for quick tool changing that reduces non-cutting time.

刀臂式刀庫(選購配備) Arm Type ATC (Optional)



採用滾子齒輪齒輪，換刀速度極快，定位精度高，刀庫容量24把刀，選刀方式為雙向任意式選刀。

Adopts roller gear cam for fast tool changing time. ATC tool capacity 24 tools, bi-directional random tool selection.

螺旋式捲屑機(選購配備) Screw Type Chip Conveyor (Optional)



履帶式鐵屑輸送機 (選購配備) Chain Type Chip Conveyor (Optional)



機械規格 Specifications:

型號	MODEL	UNIT	JHV-710
行程 TRAVEL			滾珠線軌 Linear
X軸行程	X axis travel	mm	710
Y軸行程	Y axis travel	mm	460
Z軸行程	Z axis travel	mm	580
工作台 TABLE			
工作台面尺寸	Table area	mm	760 x 420
最大負荷	Max. load table	kgs	450
T型槽寬度	T-slot width	mm	14
T型槽數	No. of T-slot		5
主軸 SPINDLE			
主軸轉速	Spindle speed	rpm	8000
主軸錐度	Spindle taper		BT40
主軸馬達	Spindle motor	kw	5.5 / 7.5
主軸中心至立柱表面	Spindle center to column surface	mm	490
主軸轉至工作台之距離	Distance from spindle nose to table surface	mm	125-700
自動換刀系統 AUTOMATIC TOOL CHANGER			
刀庫型式	Magazine type		斗笠式 (標準)
刀庫容量	Tool magazine capacity		16
最大刀具直徑	Max. tool diameter	mm	150
最大刀具直徑(有鄰刀)	Max. tool dia. - with adjacent tool	mm	100
最大刀具重量	Max. tool weight	kgs	7
刀具規格	Tool specification	type	BT40
線軌規格 LINEAR GUIDEWAY			
X, Y, Z 軸	Width of X, Y, Z axis	mm	30 / 30 / 35
三軸滾珠螺桿 3-AXES BALL SCREW			
精度	Accuracy		C3
滾珠螺桿直徑	Ball screw diameter X,Y,Z	mm	Ø 32
導程	Pitch	mm	12
伺服馬達	Servo motor XY/Z	kw	1.2 / 1.2 / 1.8 (FANUCI)
快速移動	Rapid traverse XY/Z	M/min	30 / 30 / 24
切削進給	Cutting feed	mm/min	10000
定位精度	Positioning	µ	± 5
重複定位精度	Repeatability	µ	± 3
切削液系統 COOLANT SYSTEM			
冷却馬達	Coolant motor	HP	3/4
水箱容量	Tank volume	L	200
機械尺寸 DIEMENSION			
佔地面積 (L x W x H)	Floor space (L x W x H)	mm	2080 x 2500 x 2550
包裝尺寸 (L x W x H)	Packing size (L x W x H)	mm	2200 x 2520 x 2400
機械重量	Machine weight	kgs	4200

尺寸規格若有變更，恕不另行通知。
Design and specifications are subject to change without prior notice.

標準配備 Standard Accessories:

全機科-MC控制系統
全機式氣源系統
主軸轉速8000rpm (BT40)
日內瓦式刀庫16把刀
剛性刀架
主軸式氣源系統
切削液系統
自動換刀系統
防夾護罩
三軸急停系統
三軸停機裝置
工作燈
工具架
Fanuc 0i-MC controller
Full splash guard
Spindle speed 8000rpm (BT40)
Armless ATC 16 tools
Rigid tapping
Spindle air blast system
Coolant system
Auto lube system
Heak exchanger
3-color warning light
Telescopic cover for 3 axes
Work lamp
Tool box & tools

選購配備 Optional Accessories:

全機式氣源系統
數顯器
CE Mark
刀架式刀庫24把刀
皮帶式主軸 10000/12000rpm
直結式主軸 12000/15000rpm
主軸冷卻機
後冷卻裝置
主軸中心出水
主軸噴水噴水
螺旋式捲屑機
履帶式鐵屑輸送機
Full enclosed splash guard (including upper)
Transformer
CE Mark
Arm type ATC 24 tools
Belt type spindle: 10000/12000 rpm
Direct drive spindle: 10000/12000/15000 rpm
Spindle oil cooling device
Coolant flushing device
Coolant through spindle
Spindle splash ring
Screw type chip conveyor
Chain type chip conveyor