

High Efficiency ² Spindle Vertical Machining Center

高效能雙主軸立式加工中心機 MV 324 T

- MV 324 T features higher production efficiency on the largest working range over the compact foot print; space saving, energy saving and automation suitable for small or medium parts and superior accuracy machining applications.
- The superior machine accuracy available with 4th or 5th rotary table are applicable to complicated parts in aerospace, medical, mold, automobile and advanced industry.
- **High Precision Spindle**
 - Direct drive spindle and dual contact faces BBT feature least noise and vibrations issues for better clamping rigidity and accuracy.
 - Spindle nose run out 1.5 μ m and 6 μ m at spindle nose base and test mandrel length 250 mm.
- MV 324 T 高效能雙主軸立式加工中心，擁有同級機床中最精簡空間且最大工作範圍，節省佔地空間、能源及自動化等，適合小量快速加工，中大量生產加工。
- 以精密鏜花工藝，高精度之機台及四軸或五軸旋轉工作台，適合複雜形狀精密加工，專為航太、醫療、模具、汽機車等先進製造業，提供高標準精密加工的解決方案。
- **高精度主軸**
 - 直結式主軸及標準兩面拘束BBT主軸鼻端，確保低噪音、低振動特性及提升抓刀剛性與精度。
 - 主軸測試棒鼻端偏擺精度 1.5 μ m / 250 mm 偏擺精度 6 μ m。



Reliable and Precision Spindle
高可靠度及精度主軸



4th or 5th rotary table for efficiency
4軸或5軸工作台以提升生產效率

Low gravity center base and wide column span assure machining stability
低重心底座及寬立柱跨距設計，確保加工穩定性

Differences From Design and Accuracy

差異來自設計及精度

• **High Rigidity Structure**
Wider column span, heavy duty and high precision roller linear guide for rigidity.

• **High Precision Transmission**
Precision KTR coupling feed mechanism assure the efficiency transmission and together with C1 ball screw provides superior positioning accuracy.

• **High Speed Feed**
High acceleration/deceleration 1G and rapid feed rate up to 48/ 48/ 36 m/min reduce non-cutting time and improve operation efficiency.

• **高剛性結構**
立柱寬跨距，重載型高精密級滾柱線軌，以確保高切削能力及可靠度。

• **高精度傳動系統**
直結式高精度KTR傳動三軸導螺桿，確保傳動效率精密，採用高精密級C1預拉大尺寸滾珠導螺桿增加傳動系統剛性，提供高精度切削能力及減少背隙誤差。

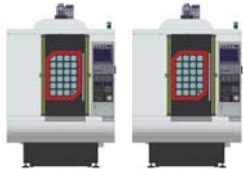
• **高速進給**
三軸高扭力，高推力，高加速度 1G及 48/48/48 m/min 快速移動率，降低非切削時間，提升效率。

• **Large Work Range Over Compact Floor**
• **Saving Space, Energy, Time and Investment**
• **最大加工範圍及最精簡空間**
• **精簡空間，節省能源，提升效率，有效投資**



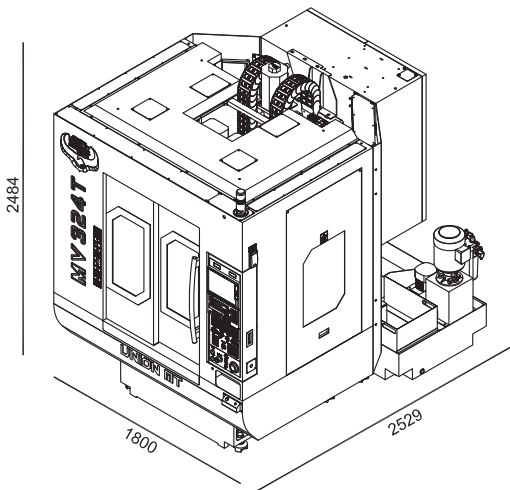
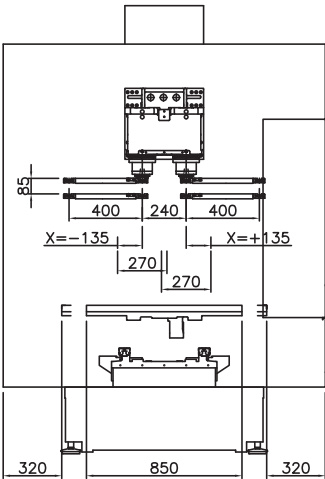
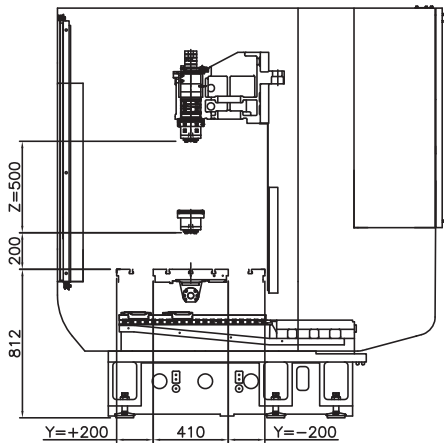
3.9 m²

Floor Saving 69%



12.7 m²

• **Positioning Accuracy ISO 230-2**
• Positioning accuracy 定位精度 5 μ m
• Repeatability accuracy 重複精度 4 μ m
• **Geometry Accuracy ISO 10791-2**
• Straightness accuracy 真直度 8 μ m
• Squareness accuracy 垂直度 8 μ m
• **Circularity ISO 230-4**
• Circularity 8 μ m
• **Work Travels**
三軸行程



Group	ITEM		12 P	15 P	24 P
Working Range 工作範圍	Travel X/ Y/ Z	三軸行程	270 x 400 x 500 mm		
	Spindle nose to table surface	主軸鼻端至工作台面距離	200~ 700 mm		
	Table size	工作台尺寸	850 x 410 mm		
	Table load capacity	工作台最大荷重	250 kg		
	T slot width/ qty/ pitch	T形槽 寬度/ 槽數/ 節距	14 mm/ 3/ 125 mm		
Main Spindle 主軸規格	Spindle type	主軸型式	BBT 30, Coupling, 直結式, Grease 油脂潤滑		HSK E40 Moto spindle
	Spindle quantity	主軸數量	2 Spindles 雙主軸		
	Distance between spindles	主軸中心距	240 mm		
	Max.spindle speed	主軸最大轉速	12,000 rpm	15,000 rpm	24,000 rpm
	Max.spindle output	主軸最大功率	11 kW, S3-15%	13 kW, S3-15%	11 kW, S3-15%
Automatic Tool Changer 自動換刀裝置	Max.spindle torque	主軸最大扭力	70 Nm	41.4 Nm	17.5 Nm
	Magazine pots	儲刀倉刀具數	20 x 2; 30 x 2 (Option' 選配附件)		
	Max. tool adj. w/o tool	最大刀具直徑有/無鄰刀	75/ 150 mm; 50/ 100 mm (Option' 選配附件)		
	Max. tool length	最大刀具長度	200 mm		
	Max. tool weight	最大刀具重量	3 kg		
Machine Size 機床尺寸	CTC time	換刀時間	2.7 sec		
	Dimension W x D x H	外型尺寸 寬度 x 深度 x 高度	1,800 x 2,529 x 2,484 mm		
	Weight	機器重量	3,400 kg		

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