UNION MT
Your Choice Of Partner

UNION MT
Union MechaTronic Inc.
SWITZERLAND
Strategic Partner

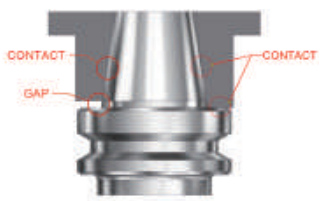
High Performance Vertical Machining Center

高性能立式加工中心機

MV 760/1000 Series 系列

- MV760 and MV1000 feature the largest working range, Y axis travel 610 mm and table size 1,200 x 600 mm suitable to more various machining applications; the superior accuracy and longevity from excellent scrap skill available for higher precision and operating efficiency.
- MV760 及 MV1000 高性能立式加工中心系列，擁有同級機床中最大的工作區域，Y 軸行程 610 mm，工作台尺寸 1,200 x 600 mm，適合更多不同類型工件之加工；並以精密剷花工藝，提升您的生產精度及效率。

BT BBT



Standard Dual Contact Faces BBT or HSK
兩面拘束主軸，BBT 或 HSK 為標準附件

Reliable spindle & headstock
高可靠度主軸及主軸箱

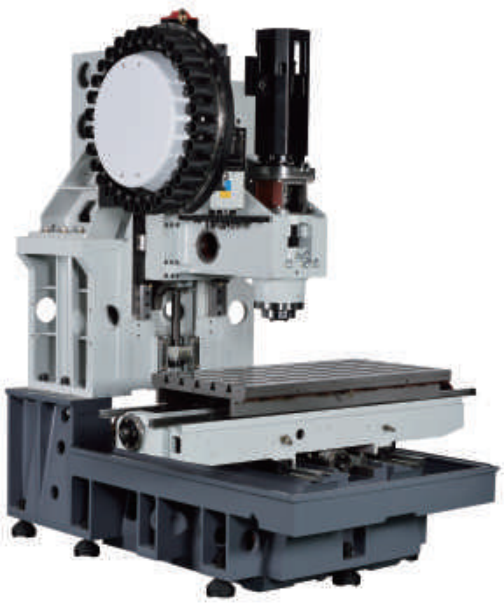
Low gravity center base, 7 leveling screws and 3 points leveling assure machining stability.
低重心底座，7支基礎螺絲，3點水平校正，確保加工穩定性。

UNION MT | www.unionmt.com
TEL +886 4 2485 3708 FAX +886 4 2485 1500

Differences Come From Passion & Service

差異源自熱情與服務

- Unique tool changer support construction provides excellent solid and less vibration and no bending moment on column and headstock.
- Wider column span, heavy duty and high precision roller linear guide 35/ 45/ 45 mm on X/ Y/ Z axis and pretension oversized 45 mm diameter ball screws for transmission rigidity and provide heavy duty machining and stability.
- Standard swing arm ATC 24 tools with max tool diameter 90mm /180 mm, with/without adjacent tool feature for big surface milling and better surface roughness without surface gap.
- 儲刀倉獨立固定結構，提升支撐穩定，大幅降低換刀時對主軸箱及立柱的震動及受彎曲扭矩之影響。
- 立柱寬跨距，重載型高精密級滾柱線軌 X/ Y/ Z 三線軌規格分別為35/ 45/ 45 mm，高精密預拉大尺寸滾珠導螺桿直徑 45 mm增加傳動系統剛性，提供高切削能力及可靠度。
- 標準儲刀倉 24支刀，最大相鄰有刀直徑 90 mm，最大相鄰無刀直徑 180 mm，適合大面積銑削，無接縫表面之加工。



- DDS-Direct Drive spindle is directly coupled to spindle motor feature least noise and vibrations issues.
- Short spindle nose and four P4 angular contact ceramic bearings design to have solid and close support of bearings in the spindle housing and headstock to provide more cutting stiffness.
- Spindle nose run out 0.0015 mm and 0.006 mm at measuring length 300 mm of test mandrel.
- 直結式主軸確保低噪音及低振動特性。
- 短鼻端及及四胞胎 P4 級高精密斜角滾珠陶瓷軸承主軸設計，主軸鼻端伸出較短，主軸軸承配置在主軸套筒緊密與主軸箱結合，大幅增加切削剛性。
- 主軸鼻端偏擺精度 0.0015 mm，主軸測試棒 300 mm偏擺精度 0.006 mm。

Positioning Accuracy 定位精度 3.321 um

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- Repeatability accuracy 重覆精度 1.801 um

Circularity Hysteresis 1.7 um

- Circularity LSC 最小平方圓 7.2 um
- Circularity MZC 最小環帶圓 6.3 um

Geometry Accuracy ISO 10791-2

- Straightness 真直度 8 um
- Squareness 垂直度 8 um

Group	ITEM		10P	12P	15P
Working Range 工作範圍	Travel X/ Y/ Z	三軸行程	760 x 610 x 610 mm；1,020 x 610 x 610 mm		
	Spindle nose to table surface	主軸鼻端至工作台面距離	100~710 mm		
	Table size	工作台尺寸	1,000 x 600 mm；1,200 x 600 mm		
	Table load capacity	工作台最大荷重	700 kg；900kg		
	T slot width/ qty/ pitch	T形槽 寬度/ 槽數/ 節距	18 mm / 5/ 100 mm		
Main Spindle 主軸規格	Spindle type	主軸型式	BBT 40 , Coupling 直結式		
	Max spindle speed	主軸最大轉速	1,0000 rpm	1,2000 rpm	1,5000 rpm
	Max spindle output	主軸最大功率	18 kW S3 15%		
	Max spindle torque	主軸最大扭力	118 Nm S3 15%		
Automatic Tool Changer 自動換刀裝置	Magazine pots	儲刀倉刀具數	24 (30,48 Opt)		30(48 Opt)
	Max. tool adj. w/o tool	最大刀具直徑有/無鄰刀	90(75) mm / 180(150) mm		75 mm / 150 mm
	Max. tool length	最大刀具長度	300 mm		300 mm
	Max. tool weight	最大刀具重量	8 kg		7 kg
	CTC time	換刀時間	4.5 sec		4 sec
ISO230-2 國際規範	Positioning/ Repeatability	定位精度/ 重覆精度	0.008 / 0.005 mm		
Coolant System 切削水系統	Coolant tank capacity	水箱容量	300L；400L		
	Nozzle coolant & flush pump	主軸環噴泵及沖屑泵	100 L / min 3.5 bar		
Lubrication 潤滑	Spindle	主軸潤滑	Grease 油脂潤滑		Oil Air 油氣潤滑
Machine Size 機床尺寸	Height	機器高度	2,843 mm		
	Width x Depth	寬度 x 深度	2,150 x 2,763 mm；2,528 x 2,763 mm		
	Weight	機器重量	6,300 kg；7,300 kg		

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