MILLSTAR
JIUH-YEH

鉅細靡遺-是我們生產機械的態度

兢兢業業-是我們對服務客戶的要求

Since 1988 MORE THAN 70 MODELS HAVE BEEN DEVELOPED

JIUH-YEH MACHINERY CO., LTD. was founded in 1988 and began manufacturing CNC Machinery Centers. In order to keep in step with global trends in technological advancements, Jiuh-Yeh has constantly upgraded its machines with the latest innovations in CNC machining equipment.

Having begun manufacturing Milling Machines in 1991, Jiuh-Yeh have become a leading brand within the global market.

Looking back, Jiuh-Yeh has grown to come into its own as a major player with ever increasing worldwide sales of innovative products with all its workers striving together for excellence under the guidance of Director, Mr. Hsu.

In addition to the above efforts, Jiuh-Yeh has also been attending important world machine tool shows in order to spotlight the performance of its state-of-the-art technology.

In order to increase its production and services, Jiuh-Yeh has built another new factory which began production by in mid 2006.

From design to manufacture, assembling and inspection, Jiuh-Yeh machines are strictly controlled at every stage. We ensure our machines' quality and stability- 40% of our business comes from repeat customers; a record that we are most proud to hold.

We will do our best through our marketing and our experienced technicians to satisfy you on all your production machinery's needs and services.

鉅業精機 創立於1979年並開始從事CNC綜合加工機的製造。1991年開始投入床型銑床製造以後，鉅業已漸漸在國際市場成為一個受歡迎的銑床領導品牌。

一路走來，在董事長許長發先生的領導下，近年來不斷地向外拓展海外市場並有不錯的成績。同時在每位同仁努力用心之下，產品也不斷的革新與進步。此外，參加國際上重要的工具機大展以展現最新的科技。

為了提升產能與擴大服務，目前正規劃興建新的廠房與設備。從設計研發到生產、製造、組裝到品管檢驗，鉅業的機台均經過每一階段嚴格的監控，以確保品質與穩定性。因此，我們的生意有40%是來自於舊客戶的續單，這是我們引以為傲的一個記錄。

MILLSTAR

www.jiuhyeh.com

1979	Ta-Yeh Gear Machinery Co.
1988	Jiuh-Yeh Precision Machinery Co., Ltd.
1991	Bed Type Vertical & Horizontal Milling Machine JY-VH480NC
1995	Bed Type Vertical & Horizontal CNC Milling Machine JY-VH650CNC
1995	Bed Type Vertical Turret Milling Machine JY-VT550
1996	New Factory in Ta-Li Industrial Park & increased production by 50%
1999	Mar. US UL ISO 9002 Certified
2002	Mar. US UL ISO 9001 Certified
2006	Feb. US UL ISO 9001:2000 Certified
2008	Vertical Machining Center with Auto Pallet Change - LMV-760APC
2009	Horizontal Machining Center - JMH-500
2010	Horizontal Machining Center - MH-2200
2011	Horizontal Machining Center - JMH-630 / JMH-800 / JMH-1000 & 3nd Factory Opening
2012	Vertical Machining Center - LMV-800 / LMV-510
2013	Horizontal Machining Center - JMH-400 & 3B Factory Opening
2014	High Speed Machining Center - Double Column type F6 / F11 / F16, Vertical type V5 / V10 / V16
2015	Horizontal Machining Center (Single Rotary Pallet) - LMH-800R / LMH-1000R Twin Spindle LMV-40 2S
2016	Horizontal Boring Machine - BHB series (BHB-110-T2 / BHB-110-T3 / BHB-135-T3 / BHB-135-T4)

公 司 沿 革

1979年	創立大業齒輪機械廠，以精密齒輪、機械零件製造加工為主
1988年	成立鉅業精機股份有限公司，初期以CNC切削中心機加工為主
1991年	成立研發部門，同年9月推出JY-VH480NC床型立橫兩用NC銑床，正式跨入工具機生產行列
1995年	正式推出床型立橫兩用CNC銑床JY-VH650CNC
1995年	正式推出砲塔銑床JY-VT550
1996年	擴充廠房及設備，公司及工廠由太平市永平路遷移到大里工業區新廠即現址，產能大幅提升50%
1999年	通過美國US UL ISO 9002認證
2002年	通過美國US UL ISO 9001認證
2006年	通過美國US UL ISO 9001:2000認證及二廠成立開始生產
2008年	成功推出立式加工中心機搭配自動交換工作台 - LVM-760APC
2009年	成功推出臥式加工中心機 - JMH-500
2010年	成功推出臥式加工中心機 - MH-2200
2011年	成功推出臥式加工中心機 - JMH-630 / JMH-800 / JMH-1000及三廠成立臥式生產基地
2012年	成功推出立式加工中心機 - LMV-800 / LMV-510
2013年	成功推出臥式加工中心機 - JMH-400及3B廠落成啓用
2014年	成功推出高速機系列-龍門型F6 / F11 / F16，立式型V5 / V10 / V16
2015年	成功推出臥式綜合加工機(單一迴轉工作台)-LMH-800R / LMH-1000R雙主軸(立式)-LMV-40 2S
2016年	臥式搪銑床-BMH系列(BHB-110-T2 / BHB-110-T3 / BHB-135-T3 / BHB-135-T4)重型六硬軌臥式加工機-BMH系列(BMH-2200 / BMH-2500)

LMV 510 / 710 SERIES

THINK FAST THINK VERTICAL
THINK MILLSTAR

HIGH SPEED CUTTING FOR SMALLER SIZES
專為小工件打造的高速切削中心機

MACHINE FEATURES

The LMV-510/710 linear series with its 10,000rpm spindle speed, tool magazine with 20 pockets, armless , high rapid traverses and high-tech controls offers customer much value. Rapid traverses of 36 m/min(LMV510) & 30 m/min(LMV710) and the fast tool changer guarantee excellent performance. The CNC controllers of Mitsubishi, Fanuc, Heidenhain or Siemens provide users excellent & friendly machining.

機 械 特 性

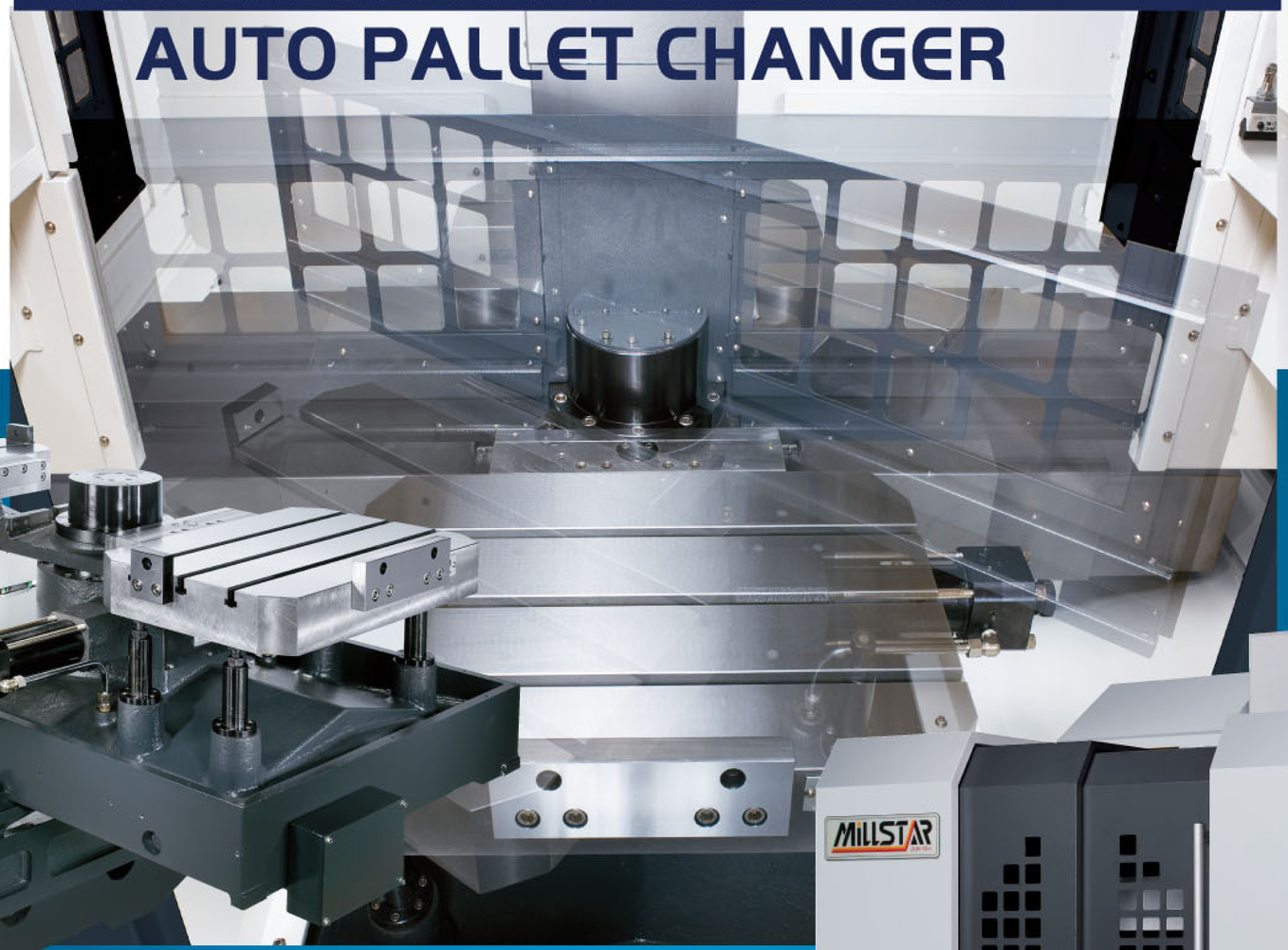
LMV-510/710線軌系列有基本的10,000 rpm主軸轉速，20把刀斗笠式換刀機構，快速位移36 m/min(LMV-510) & 30 m/min(LMV-710)及高科技控制系統可提供高價值優異的加工表現。同時控制系統可選擇三菱、發那科、海德漢或西門子等...均可提供使用者完美與人性化的加工。

SPINDLE SPEED (STD)
LMV-510: BT-40, 10000 RPM
LMV-710: BT-40, 10000 RPM

LMV 760/800APC

VERTICAL MACHINING CENTER WITH AUTO PALLET CHANGER

LMV-760APC



ARM Type:
24T (STD)

Pallet: 2 pcs
Spindle Speed: BT-40
10000 rpm (STD)

立式加工機搭配自動交換工作台

MACHINE FEATURES

★ The machine is equipped with an automatic pallet change combined with oil supply to jig and fixture for upgrading machining function.

★ The automatic pallet change allows for flexible automation and interface, upgrading productivity, reducing production costs and increasing value. It also provides flexible machining and multi-function.

機 械 特 性

★ 本機配置的APC交換工作台可提供夾治具之油路供應功能，擴大加工之機能。

★ APC交換工作站可展現自動化擴張之靈活性與介面機制，提升多量產能，降低成本，落實附加價值之效益，對市場提供更多樣化、多功能的服務。

LMV 800 SERIES

3 AXIS MACHINING CENTER

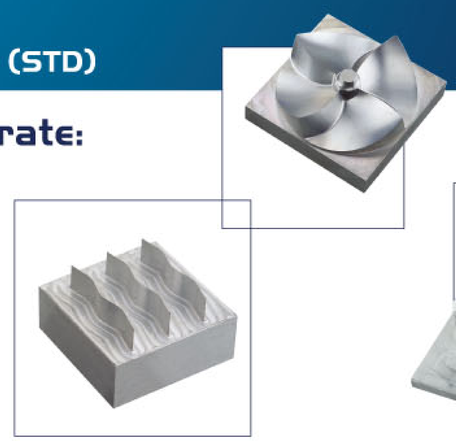
IN NEW DESIGN & AN ATTRACTIVE PRICE

有吸引力價格的

三軸新機種

Spindle Speed:
BT-40, 10000 rpm (STD)

3 Axes Rapid Feedrate:
36/36/36 m/min



MACHINE FEATURES

The machine design of the Millstar LMV-800 is effective at delivering customer value with low investment costs combined with high production output. This goal is achieved by spindle 10,000rpm, high rapid traverse speed of 36m/min(3-axis) and 20 pockets tool magazine. The CNC controllers of Mitsubishi, Fanuc, Heidenhain or Siemens provide users excellent & friendly machining.

機 械 特 性

鉅業精心新設計的LMV-800迷人之處在於對客戶快速的交期，較低的設備投資成本，
與產能大幅提高，這是來自於主軸10,000 rpm，三軸快速位移36米/分及20把刀斗笠式。
同時控制系統可選擇三菱、發那科、海德漢、或西門子等均可提供使用者完美與人性化的加工。

STATE-OF-THE-ART
4 LINEAR GUIDE WAY SERIES

MACHINE FEATURES

★ The extra-wide and extremely stable base has 4 linear ways providing solid support for the entire machine.

★ Major cast parts are box-type structure for outstanding rigidity and stability.

★ High precision ballscrews on three axes are pre-loaded to eliminate thermal displacement while ensuring high repeatability accuracy.

★ High precision ballscrews are modularly assembled. Ballscrew parallelism and squareness accuracy are calibrated to within ±0.01 mm. in full length.

★ The counter-balance weight is guided to minimize vibration while upgrading machining performance.

★ The cast-iron of column is ruggedly ribbed throughout, with box-shape inside column for maximum stability.The column surface is hardened and heat treated, and ways are precision ground and coated with Turcite-B.

★ The counterweight of spindle head is connected with high rigidity chain, allowing smooth Z-axis movement, reliable and trouble-free. Rapid feedrate is up to 18 m/min.

機 械 特 性

★ 超寬穩重的底座結構具有四線軌，提供整機的穩固支撐能力。

★ 主要機體鑄件為箱型結構，保證最佳機械剛性與加工穩定性。

★ 三軸精密滾珠螺桿經預拉處理，以消除熱變位確保高重覆精度。

★ 精密滾珠螺桿為模組化組裝。滾珠螺桿之平行度與垂直度經精密校準到0.01 mm(全長)以內。

★ 配重塊以導軌型式支撐，減低震動，提升加工性能。

LMV-1200/1400

LMV-850/1000

LMV 850 / 1000 / 1200 / 1400 SERIES

VERTICAL MACHINING CENTER

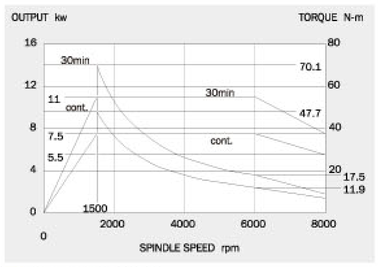
立式加工中心機 四線軌系列

高精密、高剛性主軸達到全新加工效益

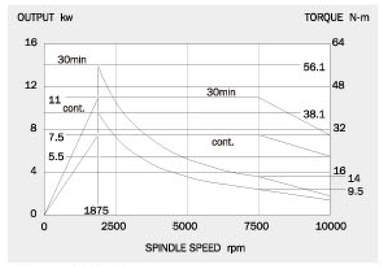
- 主軸軸承為P4級組合式斜角滾珠軸承，徑向及軸向止推力優異。
- 主軸轉速8,000~15,000 rpm (BT-40)；4,500~6,000 rpm (BT-50)，適合各種材質之加工。
- The spindle is supported by P4 class precision angular ball bearings with superior radial and axial load capacity.
- The spindle speed range from 8,000~15,000 rpm (BT-40) ; 4,500~6,000 rpm (BT-50) and is suitable for various machining applications.
- The spindle is equipped with air blast through inside of spindle to prevent accumulation of dust.

BELT DRIVE

BT-40 皮帶式 8,000/10,000 rpm



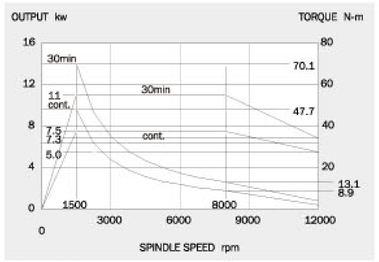
■ α 8i 8,000 r.p.m



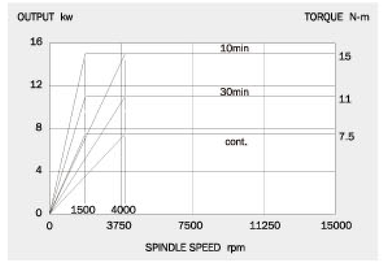
■ α 8i 10,000 r.p.m

DIRECT DRIVE

BT-40 直結式12,000/15,000 rpm



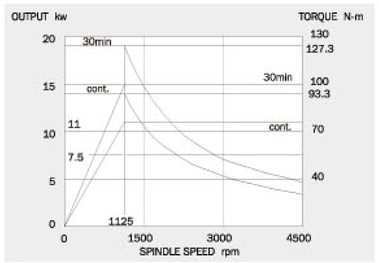
■ 12,000 r.p.m



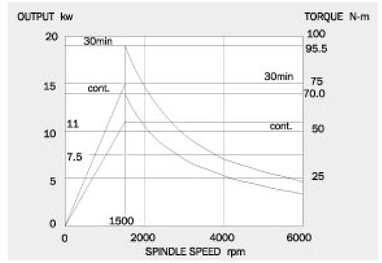
■ 15,000 r.p.m

BELT DRIVE

BT-50 皮帶式4,500/6,000 rpm



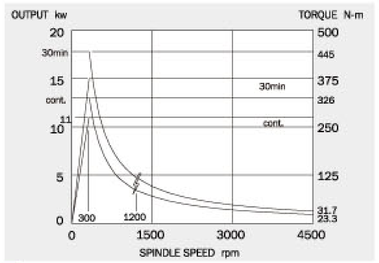
■ α 12i 4,500 r.p.m



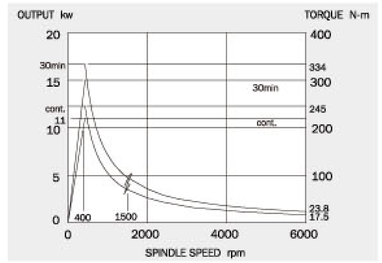
■ α 12i 6,000 r.p.m

GEAR HEAD

BT-50 齒輪式 4,500/6,000 rpm



■ α 12i 4,500 r.p.m



■ α 12i 6,000 r.p.m

HIGH PRECISION SPINDLE
A KEY TO PRECISION MACHINING

SPINDLE FEATURES

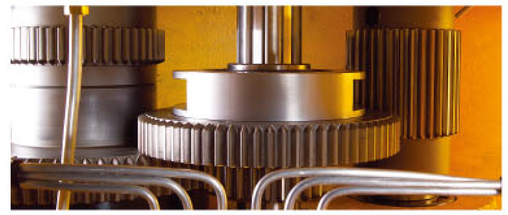
- The spindle is supported by P4 class precision angular contact ball bearings, featuring superior radial and axial thrust capacity.
- The spindle is carefully assembled by highly experienced technicians and tested long time before mounting to the machine.
- The spindle is available to equip with an optional "coolant through spindle" device which effectively reduces spindle temperature growth while increasing chip flushing effect.(OPT.)
- Coolants jets around spindle. (OPT.)

主軸特性

- 主軸採用P4級精密斜角滾珠軸承，徑向及軸向止推力優異。
- 主軸由專業技術員組裝，裝配到機器經長時間運轉測試。
- 主軸可依客戶需求增加"主軸中心出水"功能，有效降低主軸溫昇及沖屑效果(選配)。
- 主軸環狀噴水(選配)。

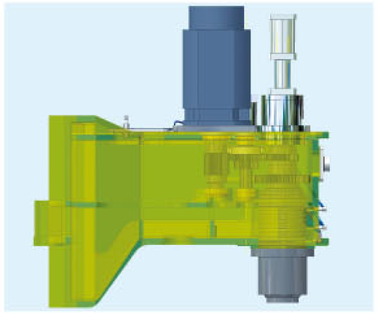
日本濱田 高低速變換齒輪頭(選配)

- 齒輪式主軸採用高低速變換齒輪箱傳動，提供更高扭力輸出耐重切削加工。
- 採用日本進口齒輪，具低噪音、高精度、耐磨耗及使用壽命長等特性。
- 齒輪箱採噴油式迴流過濾，確保潤滑油清潔。
- 高低速變換經由電腦控制。
- BT-40轉速可達8,000 rpm (ZF)。



JAPAN HAMADA

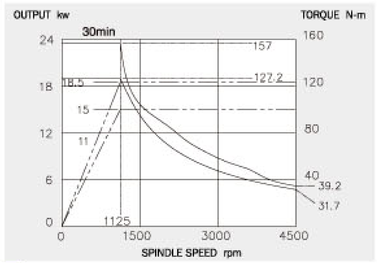
HIGH PRECISION HIGH / LOW SPEED



GEAR HEAD (OPT.)

- The gear-type spindle is transmitted by a gearhead providing greater torque output for heavy duty machining.
- The gearhead consists of high quality gears imported from Japan which feature minimum noise, high accuracy, maximum wear resistance and long service life.
- The gearbox employs splashing type circulated filtration to keep lubrication oil clean.
- The high/low speed change is automatically controlled through the computer.
- Circulated cooling on motor base.
- 8,000 rpm for BT-40 spindle.

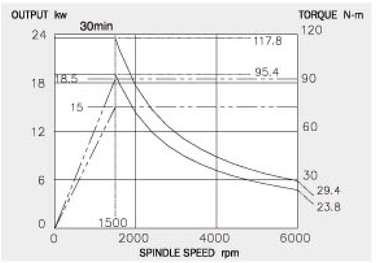
BELT DRIVE



■ α 15i 4,500 r.p.m

BT-50 皮帶頭 4,500 rpm

BELT DRIVE



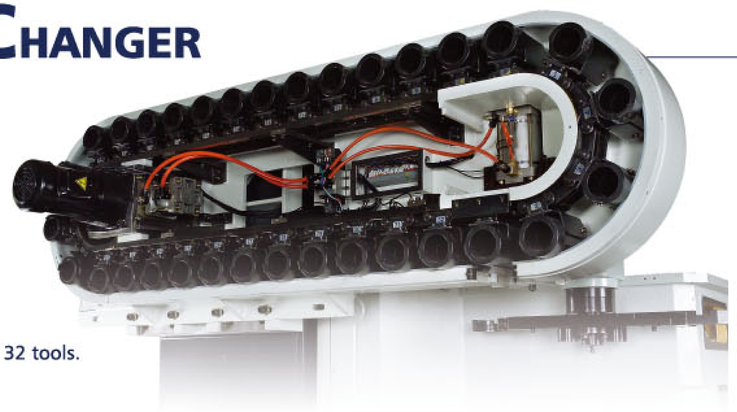
■ α 15i 6,000 r.p.m

BT-50 皮帶頭 6,000 rpm

高扭力ZF齒輪箱(適用BT-40/BT-50選配)

HIGH TORQUE ZF GEAR BOX (OPT)

AUTOMATIC TOOL CHANGER
自動換刀機構



鏈條式刀庫(選配)
- 刀庫容量為32支刀。
- 可使用BT-50刀柄規格。
- 選刀方式為雙向，任意選刀。

CHAIN TYPE MAGAZINE (OPT.)
- The loading capacity for the chain-type magazine is 32 tools.
- The magazine accepts BT50 tool shanks.
- Tool selection method is bi-directional and random.

ARMLESS TYPE MAGAZINE
- The loading capacity for the armless type magazine is 20 tools (BT-40).
- For BT50 or CAT-50 is 16 tools.

斗笠式刀庫
- 刀庫容量為20支刀(BT-40)。
- BT-50或CAT-50主軸，刀庫容量為16支刀。

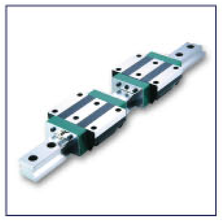
刀臂式刀庫(選配)
- 刀庫容量為24支刀。
- 可使用BT-40或CAT-40刀柄規格。
- 選刀方式為雙向，任意選刀。

ARM TYPE MAGAZINE (OPT.)
- The loading capacity for the arm-type magazine is 24 tools.
- The magazine accepts BT-50 or CAT-50 tool shanks.
- Tool selection method is bi-directional and random.

高精密滾珠螺桿

HIGH SPEED BALLSCREW (FDC TYPE)
3 axes transmission adopts C3 class high precision double nut pre-loaded ballscrews.
Low noise (5~7dB lower than traditional ballscrews)
Dm-N value up to 180,000.

高精密滾珠螺桿(FDC型)
本機之三軸傳動採用C3級精密螺桿，
經預拉處理，再配合使用預壓雙螺帽。
低躁音，噪音值比一般滾珠螺桿低5~7dB。
Dm-N值(回流值)可達180,000。



HIGH RIGIDITY LINEAR GUIDEWAY
The extra loading capacity of roller linear guideway for LMV-1400 is standard. Maximum load capatity, high rapid feedrate, high positioning accuracy.

高剛性線軌
LMV-1400量標準配置超大負載之滾柱型線軌，
負載大、快移速度快，定位精度高。

HIGH PRECISION BALLSCREW

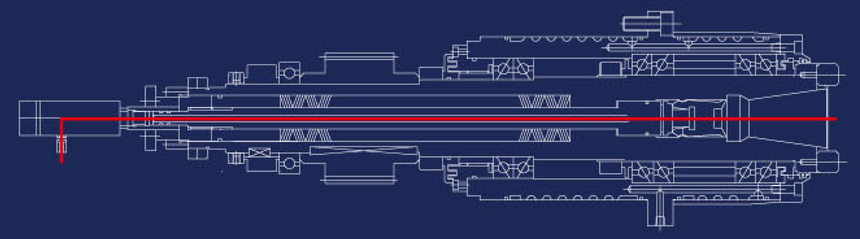
ACCURATE TRANSMISSION
Digital drives ensure high dynamic accuracy

精準動力傳輸
採數控驅動，高精密連軸器，
確保動態高精度。

PRECISION SCRAPING
Slideways are coated with imported high quality Teflon and are precision scraped for outstanding machine accuracy

高精密鏟花
採用進口鐵氟龍與經過高精密鏟花過程，確保機台精度準確。

COMPREHENSIVE CHIP FLUSHING DESIGN
齊全的沖屑設計

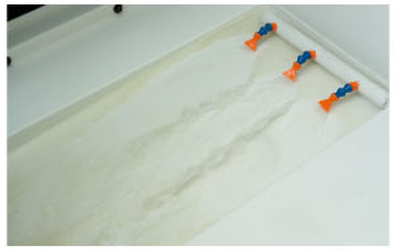


主軸中心出水(選配)
特殊設計的主軸中心出水裝置，可確保主軸及刀具的常溫，提昇加工精度。

COOLANT THROUGH SPINDLE (OPT.)
The specially-designed coolant through spindle device ensures constant temperature on the spindle and tool thereby increasing machining accuracy.

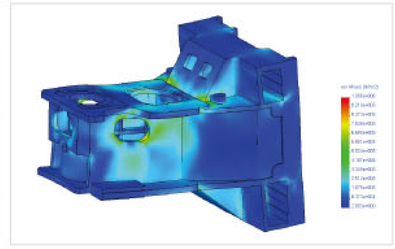
COOLANT GUN
Replaces previous air gun, effectively prevents chips jumping into spindle and causing damage (opt.)

冷卻液噴槍
此冷卻液噴槍可取代一般的空氣噴槍，
可有效避免切屑侵入主軸，造成主軸損害。



COOLANT FLUSHING DEVICE
The high-pressure coolant flushing device provides efficirnt removal of chips. (opt.)

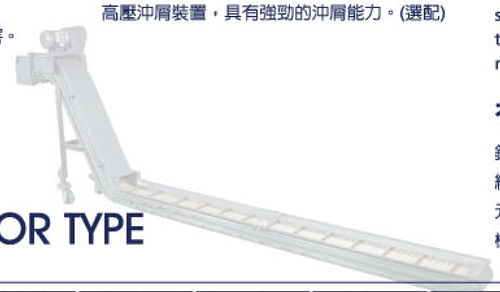
高壓沖屑裝置
高壓沖屑裝置，具有強勁的沖屑能力。(選配)



FINITE ELEMENT ANALYSIS
The major structural parts of MILLSTAR machines are all manufactured from high quality cast iron and tempered to relieve stress. In addition, high-tech 'Finite Element Analysis' is applied to simulate the stress/strain conditions throughout the computer. This will assure excellent machine rigidity, stability and dampening capabilities.

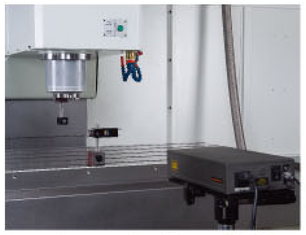
有限元素分析
鉅業機械的主要結構鑄件，除了採用高級鑄鐵製成，經回火處理，消除內應力；再採用先進科技的有限元素分析，以電腦模擬結構應力情況，確保最佳的機械剛性、穩定性及抗震能力。

CHIPS TYPE
CHIP CONVEYOR TYPE



輸送機型式 \ 切屑種類	Spiral Iron Chips 鐵捲屑	Iron Chips 金屬鐵屑	Non-spiral Chips 非捲屑	Cast Iron 鑄鐵屑	Spiral Aluminum Chips 鋁捲屑	Aluminum 鋁屑	Copper 銅屑	Non-ferrous Metal 非鐵金屬
Steelbelt Chip Conveyor / Standard Model 鏈板式輸送機	○	○			○			○
Scraper Type Chip Conveyor / Standard Model 刮板式輸送機			○	○			○	○
Dual Belt Type Chip Conveyor 複合式輸送機	○	○	○	○	○	○	○	○
Serew Type Chip Conveyor 螺旋式排屑機	○	○						

完善嚴格的精度檢驗



Laser inspection is applied for every machine after installation to ensure perfect quality.

每座機台均以雷射進行定位校準，確保最佳品質。

High precision ball bar circle inspection.

高精度循圓測試

Dynamic Vibration Inspection
主軸動態振動檢驗

QUALITY AND DEPENDABILITY THROUGH COMPREHENSIVE INSPECTIONS

SPINDLE OIL COOLER (OPT.)

主軸油溫冷卻機
(選配)

ELECTRICAL CONTROL BOX (COMPLIED WITH CE STANDARDS)

電氣箱
(符合CE標準)

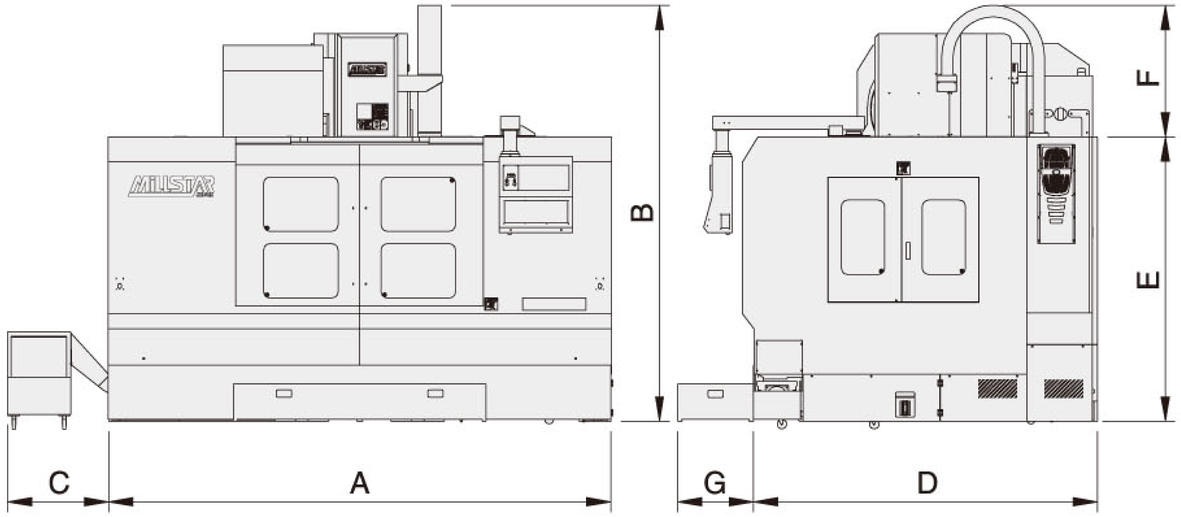
UNIFORM AND RELIABLE SLIDEWAY LUBRICATION

The machine is equipped with an oil distributor combined with uniform lubrication points to assure added uniformity of slideway lubrication. It results in extremely smooth axial movement.

更均勻、更可靠的滑道潤滑

本機採用高性能配油器，配合滑道潤滑點平均分配設計，保證滑道面潤滑更均勻，行程動作順暢。

LMV Machine Floor Plan
佔地面積示意圖



Model Dimension:

尺寸 / 型號	單位	A	B	C	D	E	F	G
LMV-510	mm	1950	2764	800-1200	2360	1999	765	/
LMV-710	mm	2185	2764	800-1200	2360	1999	765	/
LMV-760APC	mm	2180	2632	1200	2957	2137	495	/
LMV-800APC	mm	2230	2707	1200	3282	2470	237	/
LMV-800	mm	2360	2545	800-1200	2149	1979	566	/
LMV-850	mm	2565	2771	800-1200	2238	2099	672	/
LMV-1000	mm	2810	2771	800-1200	2238	2099	672	/
LMV-1200	mm	3220	2947	800-1200	2560	2168	779	/
LMV-1400	mm	3980	3292	800-1200	3323	2250	1042	600

- 由於本公司不斷的研究改進，本型錄所示之機械佔地面積圖規格本公司有變更之權利恕不另行通知，實際仍需以出貨為準。
- All machine floor plan data shown above subject to change without prior notice. Actual product specifications will be based on the delivery.

機台規格表 Machine Specifications

LINEAR WAY series 510~1400

	型 式	MODEL	LMV-510	LMV-710	LMV-760APC	LMV-800APC	LMV-800	LMV-850	LMV-1000	LMV-1200		LMV-1400	
Table	工作台	Work Table	600 x 420 mm	760 x 420 mm	600 x 400 mm x 2 pcs	800 x 500 mm x 2 pcs	950 x 500 mm	1010 x 550 mm	1200 x 550 mm	1300 x 680 mm		1600 x 700 mm	
	T 型槽	T-slot	100 x 18 mm x 3T	100 x 18 mm x 3T	100 x 14 mm x 3T	100 x 18 mm x 5T	80 x 18 mm x 5T	125 x 18 mm x 4T	100 x 18 mm x 5T	100 x 18 mm x 5T		125 x 22 mm x 5T	
	最大負荷	Max. Loading	400 kg	500 kg	200 kg	300 kg	500 kg	800 kg	1000 kg	1200 kg		2000 kg	
Travel	三軸行程	Three Axes Travel	510 x 420 x 420 mm	710 x 460 x 460 mm	760 x 460 x 450 mm	800 x 460 x 450 mm	800 x 500 x 500 mm	850 x 600 x 620 mm	1000 x 600 x 620 mm	1200 x 620 x 650 mm		1400 x 750 x 700 mm	
	行程	主軸端面至工作台面距離	Spindle Nose to Table Surface	125 ~ 545 mm	125 ~ 585 mm	150 ~ 600 mm		125 ~ 625 mm	130 ~ 750 mm	130 ~ 750 mm	150 ~ 800 mm	250 ~ 900 mm	350 ~ 1050 mm	200 ~ 900 mm
	主軸中心至滑道面距離	Spindle Center to Column Slide Ways	450 mm	490 mm	490 mm		510 mm	620 mm	620 mm	650 mm		850 mm	800 mm
Spindle	主軸錐孔	Spindle Taper	BT-40	BT-40	BT-40		BT-40	BT-40	BT-40	BT-40	BT-50	BT-40	BT-50
	主軸	主軸直徑	Spindle Diameter	Ø60 mm	Ø60 mm	Ø60 mm	Ø70 mm	Ø70 mm	Ø70 mm	Ø70 mm	Ø70 mm	Ø100 mm	Ø70 mm	Ø100 mm
	主軸轉速	Spindle Speed	10000 rpm	10000 rpm	10000 rpm		10000 rpm	8000 rpm	8000 rpm	8000 rpm	4500 rpm	8000 rpm	4500 rpm
Feedrate	三軸滑道	3 axes Slide Ways	線 軌 Linear Way	線 軌 Linear Way	線 軌 Linear Way		線 軌 Linear Way	線 軌 Linear Way	線 軌 Linear Way	X, Y: Linear Way 線軌 Z: Box Way 硬軌		X, Y: Linear Way 線軌 Z: Box Way 硬軌	
	快速移動	三軸快速移動率	3 axes Rapid Feedrate	36 / 36 / 30 m/min (標配) 48 / 48 / 48 m/min (選配)	30 / 30 / 30 m/min	30 / 30 / 30 m/min		36 / 36 / 36 m/min	30 / 30 / 30 m/min	30 / 30 / 30 m/min	X, Y: 24 m/min Z: 18 m/min		X, Y: 24 m/min Z: 18 m/min
	三軸切削進給速率	3 axes Cutting Feedrate	10 / 10 / 10 m/min	10 / 10 / 10 m/min	10 / 10 / 10 m/min		10 / 10 / 10 m/min	10 / 10 / 10 m/min	10 / 10 / 10 m/min	10 / 10 / 10 m/min		10 / 10 / 10 m/min	
ATC	儲刀倉	換刀機構	Tool Magazine type	斗笠式 / Armless	斗笠式 / Armless	刀臂式 / Arm		斗笠式 / Armless	斗笠式 / Armless	斗笠式 / Armless	斗笠式 / Armless		斗笠式 / Armless	
		刀具選擇	Tool Selection	雙向及最短路徑 Bi-direction shortest path	雙向及最短路徑 Bi-direction shortest path	雙向及最短路徑 Bi-direction shortest path		雙向及最短路徑 Bi-direction shortest path	雙向及最短路徑 Bi-direction shortest path	雙向及最短路徑 Bi-direction shortest path	雙向及最短路徑 Bi-direction shortest path		雙向及最短路徑 Bi-direction shortest path	
		相鄰刀最大直徑x長度	Max. Tool Diameter x Length	Ø76 x 250 mm	Ø76 x 250 mm	Ø76 x 250 mm	Ø80 x 250 mm	Ø100 x 300 mm	Ø100 x 300 mm	Ø100 x 300 mm	Ø100 x 300 mm	Ø146 x 300 mm	Ø100 x 300 mm	Ø146 x 300 mm
		刀具最大重量	Max. Tool Weight	7 kg	7 kg	7 kg		7 kg	7 kg	7 kg	7 kg	15 kg	7 kg	15 kg
		刀具刀柄規格	Tool Shank	BT-40	BT-40	BT-40		BT-40	BT-40	BT-40	BT-40	BT-50	BT-40	BT-50
		刀具容量	ATC Capacity	20T	20T	24T		20T	20T	20T	20T	20T	20T	20T
Motor	驅動馬達	主軸驅動馬達(連續/30分)	Spindle Motor (cont. / 30 min.)	5.5 / 7.5 kw	5.5 / 7.5 kw	7.5 / 11 kw		7.5 / 11 kw	7.5 / 11 kw	7.5 / 11 kw	7.5 / 11 kw	11 / 15 kw	11 / 15 kw	
		X, Y, Z 驅動馬達	X / Y / Z axis Servomotor	X, Y: HF154 / Z: HF204B	X, Y: HF154 / Z: HF204B	X,Y: HF224 / Z: HF204B		X, Y: HF224 / Z: HF204B	HF204	HF204	HF204	HF354	HF354	
		X, Y, Z 滾珠螺桿	X / Y / Z axis Ball Screw	Ø32 x Pitch 10 (標配) Ø32 x Pitch 12 (選配)	Ø32 x Pitch 10	Ø32 x Pitch 12		Ø32 x Pitch 12	Ø40 x Pitch 10	Ø40 x Pitch 10	Ø50 x Pitch 12		Ø50 x Pitch 12	
		切削水馬達	Coolant Pump	660 w	660 w	660 w		660 w	660 w	660 w	660 w		660 w	
Miscellaneous	一般規格	外型尺寸 (長×寬×高)	External Dimensions (L x W x H)	1950 x 2360 x 2764 mm	2185 x 2360 x 2764 mm	2180 x 2957 x 2632 mm	2230 x 3282 x 2707 mm	2360 x 2149 x 2545 mm	2565 x 2238 x 2771 mm	2810 x 2238 x 2771 mm	3220 x 2560 x 2947 mm	3220 x 2560 x 2980 mm	3980 x 3323 x 3292 mm	
		淨重/毛重	N.W / G.W. (approx.)	3500 / 4000 kg	4000 / 4500 kg	4500 / 5000 kg	5000 / 5500 kg	4500 / 5000 kg	6000 / 6700 kg	6200 / 6900 kg	7800 / 8800 kg	8300 / 9300kg	10500 / 11500 kg	11000 / 12000 kg
		護罩	Splash Guard	全罩式 Fully Splash guard	全罩式 Fully Splash guard	全罩式 Fully Splash guard		全罩式 Fully Splash guard	全罩式 Fully Splash guard	全罩式 Fully Splash guard	全罩式 Fully Splash guard		全罩式 Fully Splash guard	
		水箱容量	Coolant Tank Capacity	200 L	200 L	150 L	270 L	260 L	240 L	250 L	300 L		500 L	

• 由於本公司不斷的研究改進，本型錄所示機械規格特性本公司有變更之權利，恕不另行通知。 • All specifications and designs are subject to change without prior notice.

STANDARD ACCESSORIES

- Mitsubishi M80 controller
- 8.4" color LCD
- Leveling kits and blocks
- Tool box with tools
- Spindle speed 8000 rpm, BT-40 (LMV-850 ~ LMV-1400)
- Spindle speed 10000 rpm, LMV-510 / 710 / 760APC / LMV-800
- Spindle speed 4500 rpm, Belt drive, BT-50, LMV-1200 / LMV-1400
- Spindle air blow system
- Coolant system
- Auto power off
- Heat exchanger
- Auto lubrication system
- 20 tools armless type ATC (LMV-760 / 800APC 24T, arm Type)
- Rigid tapping
- Screw type chip conveyor with cart
- M code air blasting
- RS232 interface
- Fully splash cover
- Quartz working light
- Transformer (Export only)

標準配備

- 三菱M80控制器
- 8.4"彩色螢幕
- 地基墊及水平調整螺絲
- 工具箱及工具
- 主軸轉速8000 rpm, BT-40 (LMV-850 ~ LMV-1400)
- 主軸轉速10000 rpm, LMV-510 / 710 / 760APC / LMV-800
- 主軸轉速4500 rpm, 皮帶式, BT-50, LMV-1200 / LMV-1400
- 主軸鬆口吹氣系統
- 切削液系統
- 自動斷電系統
- 熱交換器
- 自動潤滑單元
- 斗笠式20把刀 (LMV-760 / 800APC 24T, 刀臂式)
- 剛性攻牙
- 螺旋排屑裝置 (含集屑車)
- M碼吹氣
- RS232介面
- 全罩式鈑金
- 石英工作燈
- 變壓器 (外銷專用)

OPTIONAL ACCESSORIES

- Fanuc/Mitsubishi M800/Siemens/Heidenhain/Fagor
- 10.4" color LCD
- Spindle speed 10000 / 12000 / 15000 rpm (BT-40), Direct Drive (DDS)
- Spindle speed 6000 / 8000 rpm (BT-50)
- Spindle oil cooler (LMV-510 / 710 / 760APC / 800APC / LMV-800 Std.)
- ZF gear box (BT-40 / 50)
- Japan HAMADA Gear head (BT-50), LMV-1200 / LMV-1400
- 4th axis interface (not include motor & drive)
- CNC rotary table with drive, motor
- Coolant through spindle 20 / 30 / 50bar (CTS)
- Air conditioner for electric cabinet
- 24 tools arm type ATC (BT-40 / 50)
- 32 tools chain type ATC (BT-50)
- Steelbelt type / Scraper type chip conveyor with cart
- Chip flushing system
- CE norm
- Oil skimmer
- Automatic tool length measuring device
- Automatic work piece measuring device

選購配備

- 發那科/三菱M800/西門子/海德漢/發格控制器
- 10.4" 彩色螢幕
- 主軸轉速10000 / 12000 / 15000 rpm (BT-40), 直結式
- 主軸轉速6000 / 8000 rpm (BT-50)
- 主軸油冷機 (LMV-510 / 710 / 760APC / 800APC / LMV-800 標準)
- ZF齒輪箱 (BT-40 / 50)
- 日製HAMADA齒輪頭 (BT-50), LMV-1200 / LMV-1400
- 第四軸介面 (不含馬達及驅動器)
- CNC第四軸分度盤含伺服馬達
- 主軸中心出水20/30/50bar
- 電氣箱冷氣機
- 刀臂式24把刀 (BT-40 / BT-50)
- 鏈條式32把刀 (BT-50)
- 鏈板式/刮板式鐵屑輸送機含集屑車
- 高壓沖屑裝置
- CE標準
- 油水分離機
- 自動刀長量測
- 自動工件量測

MILLSTAR
JIUH-YEH

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2017.01.2000-4

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