



PERFECT JET

TRAVELLING COLUMN VERTICAL/HORIZONTAL MACHINE CENTER
VERTICAL MACHINE CENTER
DEEP HOLE DRILLING & BORING MACHINE
FLOOR TYPE BORING & MILLING MACHINE
CNC & CONVENTIONAL BED-TYPE MACHINE
DOUBLE COLUMNS MACHINING CENTER
CUSTOMIZED MACHINE



PERFECT JET

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品正機械PJM
PING JENG MACHINERY INDUSTRY CO.,LTD

精微加工中心機/龍門加工中心
HIGH PRECISION MACHINING CENTER
DOUBLE COLUMNS MACHINING CENTER

Profile



Mission: Sincerity Progress Harmony

Vision: Cultivate Good Karma in the business, Benefit All People

History of Timeline

1981~Ping Jeng Company starts in Taichung, Taiwan. Capital 2.1 million. Launch :RD-600&600BL

1982~As customer needs to produce Bed Type Milling Machine:BM-2V and Radial Drill Machine: CNC-RAMILL-VI.

1983~Launch: BM-3V&BM-4V

1984~Launch:BM-3MV&BM-4MV

1985~Launch:BM-3DS&4DS

1986~Launch:CNC-MGD-500&1000

1987~Launch:CNC-MGD-1015&1020

1988~Launch:CNC-MGD-1520&1525 , TRAK-3S(BM-22VDA)

1989~Launch:DH-1500&3000&6000. Cooperate with American well-known NC Company and entered the U.S. market with CNC Milling Machine successfully. Capital increasing to 19.8 million.

1990~Launch:CNC-MGD-613&813 , TRAK-5S(BM-24VDA)

1991~Launch:CNC-MGD-816&820

1992~Launch:CNC-MGD-1016&1020 , TRAK-2S(BM-21VCA)

1993~Launch:CNC-51-VI/GA/GF(BM-1687). Expand European market & start to develop Box Ways machining centers. CE -TUV of Germany Authentication approved for CNC Milling Machines. Capital increasing to 30 million.

1994~Launch:CNC-61-VI/GA/GD(BM-2087)

1995~Launch:CNC-71-VI/GA/GD(BM-2587) , CNC-81-VI/GA/GD(BM-3087)

1996~Launch:MCV-64BT

1997~MCV-85B&85G

1998~MCV-100B&100G

1999~Launch:MCV-168G&168B. All plants destroyed by 921 earthquake and almost forced to close down the business; after financing and capital increasing to 68 million, and enable to reconstruct the plants.

2000~Launch:MCV-86&116B. Merge a machinery company and acquire related technical staffs and some outstanding European agents. Develop Linear Guide Way machine center.

2001~Launch:MCV-127B &147B&147G

2002~Launch:MB-4R372 -4axes ROUTING. & MCV-M8 & M6

2003~Launch:CNC-24MA(740) CNC-34/36/46MB (1050-1350)·MCV-M10.

Attend EMO and international exhibitions actively to expand global market.

2004~Launch:CNC-12ME(QCM) , MCV-M11. CE-TUV of Germany Authentication approved for all machine tools and successfully expanded Turkey and East Europe.

2005~ Launch:MB-1207/1210 , MCV-M5. As Europe market need to R&D the Moving Column machining centers serial. New CIS & Logo – PERFECT JET & implement ERP management and target management.

2006~Launch:MHD-2678 , DH-3100 , MCV-M7

2007~Launch:MV-107P&107U·MV-64P&64U. Italy well-known machinery dealer ask to be the exclusive agent for Moving Column serial and sign up 10 machines per year quota.

2008~Launch:MV-86P&86U, MB-1220.

2009~Launch:MCV-2010G, MV-308. R&D Submicron high precision machining center, and joint program of Ministry of Economic Affairs.

2010~Launch:MV-308-5X, MCV-188G.



As European Auto parts and Aero parts market needs, to develop 5-axis swiveling head MV-308-5x and gain the Patent.



2011~Launch:MH-1500D, MH-800P, MCV-435 v. MCV-435 v is launched in TIMTOS Exhibition and wins Grand Award and IENA in Germany invention competition for Grand Champion Award also. Capital increasing to 168 million.

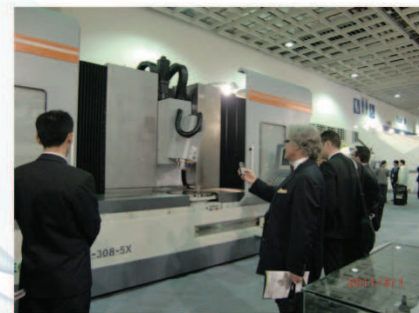
2012~Launch:MH-1213, MH-500P, MH-630P, MCV-2510B/G

2013~Launch:BM-1620, CNC-GD-4axes, CNC-GD-6axes, CNC-GD-8axes

All machines are developed in-house. We have an outstanding R&D team who is dedicated to researching and developing new machines many years with expertise. Using AUTOCAN R14 software and AUTODESK3D/INVENTOR SERIES.

COMPANY SCOPE:

Land Area:30000m² , Factory Area:16000 m² , Office Area:22000 m² , Capital increasing to 168 million.



Perfect World, Perfect Jet, Perfect Efficiency:
Creating job opportunity and supporting educational constitution are the main principles of Ping Jeng. To build a better society, Ping Jeng keeps doing its best to benefit the community for now and the future.

地理位置·全視圖 Geographic Location



DOUBLE COLUMNS MACHINING CENTER
龍門加工中心機

HIGH PRECISION MACHINING CENTER
精微加工中心機



PERFECT JET

Designed and Built with Excellent Quality, Efficiency and Accuracy



MB-1220



MB-1210



MB-1207



4R-372



MV-86P



MCV-435U

HIGH PRECISION MACHINING CENTER 精微加工中心機

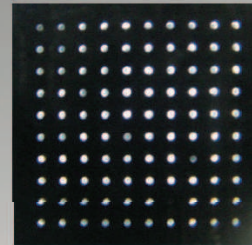


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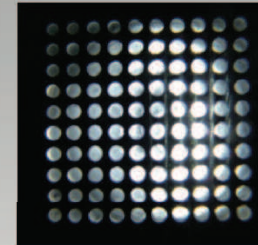


The MCV-435µ is a high precision, high speed machining center that is designed specifically for precision mold making, medical instruments, biotechnology and the photoelectric industries. It's an ideal machine for producing high precision, small parts.

MCV-435µ是一部超精密高速加工中心機，適用於精密磨具、醫療器材、生物科技與光電業...等，為生產高精度微小零件之最佳利器。



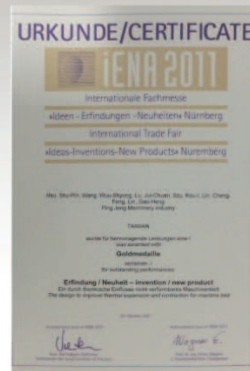
* Ø0.1mm micro-drilling
* Through-hole depth:1.1mm



* Ø0.05mm micro-drilling
* Through-hole depth:0.6mm



Medical Instruments
Mold Machining
* Workpiece name:Artificial bone mold
* Workpiece material:SKD61(HardnessHRC50)
* Workpiece :SKD61(HardnessHRC50)



Domestically Developed! Best Price to Performance Ratio!

國內自主開發！價格與性能最佳組合！

With extensive experience in the R&D of precision machine tools, Ping Jeng has overcome a multitude of technical challenges to successfully develop the MCV-435µ high precision machining center.

MCV-435µ精微加工中心機，是品正憑藉多年精密工具機研發經驗，克服種種技術瓶頸而成功研發出來的結晶。



Material	Before Cutting		After Cutting	
Brass (C360)	Flatness	3µm	Flatness	0.7µm
	Surface roughness	Ra 1.0µm	Surface roughness	Ra 0.04µm
Mold steel (NAK80)	Flatness	3µm	Flatness	0.7µm
	Surface roughness	Ra 0.3µm	Surface roughness	Ra 0.05µm

Outstanding Features 優異特性

- * All critical parts of the machine are domestically developed.
- * The machine bed is manufactured from artificial granite.
- * Constant temperature control of the machine.
- * X,Y-axis are mounted with air-cushioned slide ways combined with linear motor drivers.
- * Graphical interface input for measuring function.
- * Windows XP operating system.
- 重要零組件均由國人自主研發
- 機台採用人造花崗岩製成
- 機台恆溫控制系統
- X,Y軸採用精密氣浮導軌，搭配線性馬達驅動
- 圖形化介面輸入量測功能
- Windows XP作業系統

HIGH PRECISION MACHINING CENTER 精微加工中心機



PERFECT JET



恆溫系統監控

Constant Temperature System Monitoring

※Spindle temperature setting and monitoring

主軸溫度設定監測

※Chilling water temperature setting and monitoring

冰水溫度設定監測

※Machining area temperature is controlled at $20^{\circ} \pm 0.5^{\circ} \text{C}$

加工區恆溫控制達 $20^{\circ} \pm 0.5^{\circ} \text{C}$

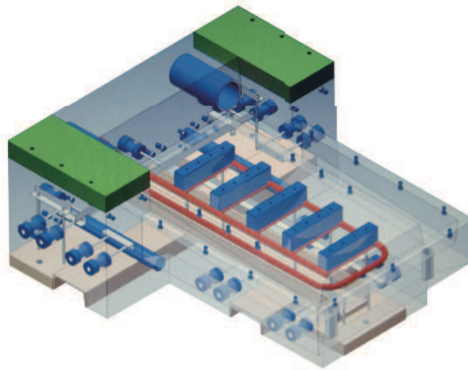
內藏式循環恆溫控制

Built-in Circulated Coolant Circuit for Constant Temperature Control

$20^{\circ} \pm 0.5^{\circ}$

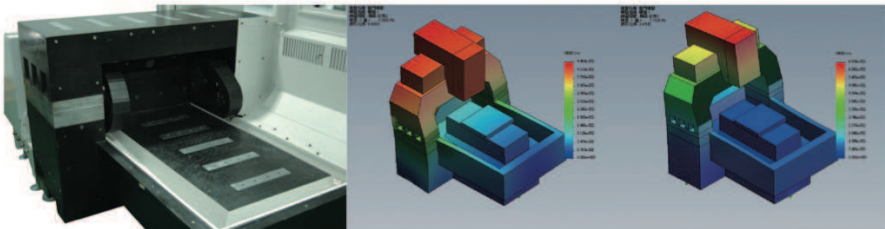
* The artificial granite base and saddle are designed with a built-in circulation cooling system that thoroughly suppresses thermal growth and deformation problems.

* The structural parts that contact with the heat source are equipped with coolant tubes to expel machine-generated heat. This also contributes to the constant temperature control of the machine, resulting in higher machining accuracy.



有限元素結構分析

Finite Element Analysis (FEA) for Machine Structure



Air-Cushioned Slideways on X,Y-axis

X,Y軸氣浮式導軌線性馬達驅動

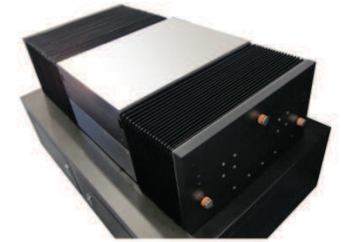
※The advanced design of the air-cushioned slideways on the X and Y-axis exhibits extraordinary stability.

※Linear Motor Drive

With the linear motor drive, feed rate can reach 100 mm/sec and acceleration may reach 0.5G.

※X,Y軸採用先進的氣浮式導軌設計，展露獨特穩定性

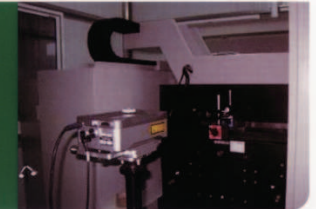
※線性馬達驅動，進給速度最高可達100mm/秒。加速度高達0.5G



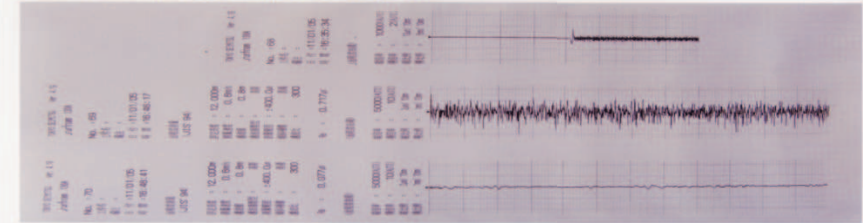
三軸精度檢測 Three-axes Accuracy Inspection

A laser unit is applied for inspecting the linear accuracy and pitch error on the X,Y and Z-axis. Through such inspection, the machining and repeatability accuracies can be assured.

Item	X-axis	Y-axis	Z-axis
Linear accuracy	2.6 μm	3.0 μm	2.8 μm
Flatness	1.4 μm	2.6 μm	2.2 μm
Pitch	4.6arc	2.6arc	2.5arc
Runout	5.3arc	5.3arc	6.5arc
Accuracy	0.3 $\mu\text{m}/400\text{mm}$	0.2 $\mu\text{m}/300\text{mm}$	0.8 $\mu\text{m}/150\text{mm}$
Repeatability	0.2 μm	0.1 μm	0.4 μm



Surface Roughness Inspection Report:

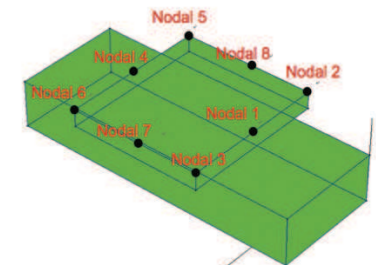


結構共振穩定性測試

Structural Resonance Frequency Test

68Mz

By the use of sophisticated instruments to inspect the resonance frequency on the table surface, accuracy can be further increased.



Standard value	Over 50Hz
Actual test value	68Hz

HIGH PRECISION MACHINING CENTER 精微加工中心機



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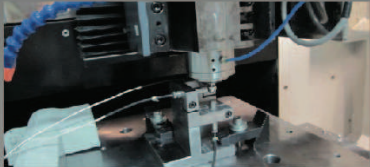
High Speed Built-in Type Spindle 120,000rpm 高速內藏式主軸

Spindle Runout Inspection
測試結果

- *Static runout: 0.7 μ m
- *Dynamic runout: $\leq 2 \mu$ m (speed 90,000rpm)

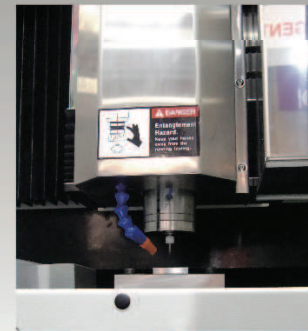
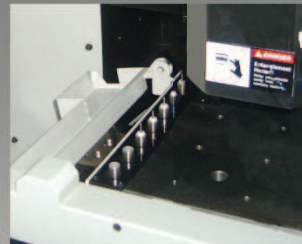


Automatic Tool changer自動換刀
*Magazine loading capacity: 8 tools
*Armless type tool changer

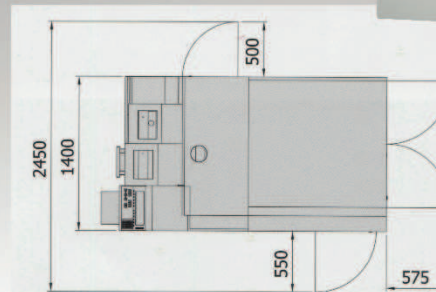
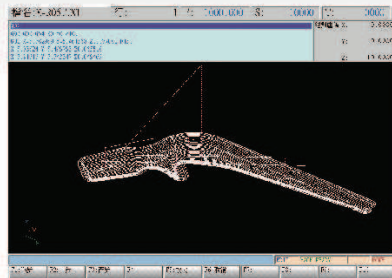


CNC Control 控制器

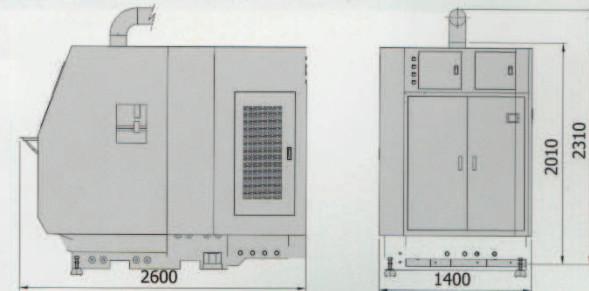
- ※Windows XP operating system 作業系統
- ※Graphical interface for measuring function
圖形化介面輸入量測功能
- ※Far end diagnostic function 遠端機台診斷功能
- ※Spindle speed and temperature monitoring
主軸轉速與溫度監控
- ※Machining simulation 加工模擬



座標座標		座標座標		座標座標	
X	240.9416	X	-9.5584	F	0.000
Y	-131.2442	Y	-0.4736		
Z	1.8726	Z	1.1726		
座標座標					
X*	0.0000	X	0.0000		
Y*	0.0000	Y	0.0000		
Z*	0.0000	Z	0.0000		
座標座標					
F	12.500	S	0.8276		
座標座標					
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G966	G967	G968	G969	G970	G971
G972	G973	G974	G975	G976	G977
G978	G979	G980	G981	G982	G983
G984	G985	G986	G987	G988	G989
G990	G991	G992	G993	G994	G995
G996	G997	G998	G999	G1000	G1001



Floor Area Occupation



HIGH PRECISION MACHINING CENTER

精微加工中心機



PERFECT JET

SPECIFICATIONS:

	MODEL	MCV-435μ	MB-1207	MB-1210	MB-1220	MB-1620	MB-1630
Travel	X/Y/Z axis	400X350X150	1200X700X500	1200X1050X700	1200X2050X700	2000X1600X700	3000X1600X700
	Spindle nose to table surface	30-180	80-580	160-860(OP BT-50:200-900)		BT-40(150-850)/BT-50(200-900)	
	Spindle center to column surface	70	130	270			
	X/Y/Z way span	450X420X175	680X616X380	660X770X420		960/770/420	
	X/Y/Z/W Ballscrew		φ40/φ40/φ40	φ45/φ45/φ45	φ63/φ45/φ45	φ63/φ50/φ50	
	Ball bar accuracy/Position-P		±0.2um/±0.5um	±0.01/±0.005			
Spindle	Spindle taper	φ3.15	BT40	BT40/op. BT50			
	Spindle transmission		Direct-coupled				
	Spindle speed	120,000	10000 / OP : 50-6000 OP8000			BT40 :10000 OP 15000 / BT50 :6000 OP 800	
controller	CNC controller	PC Base	As customer's request				
	Spindle motor	500W	7.5/11	11/15	15/18.5	15/18.5	
	X/Y/Z motor	5.4/2.4/1.0	1.6/1.6/4.0B	4/4/93	7/7/9B	7/7/9B	9/7/9B
Table	Table size(WxL)	350x350	1300x720	1300x1020	2200x1200	1600x2200	1600X3200
	T-slots(Widthx No.xPitch)		18x6x125	18x7x150	22x8x150	22x10x150	
	Table load	50	600	1500	3500	5000	7000
Feed	X/Y/Z Rapid feed rate	100	30/30/24			16/24/24	
	Cutting feed rate	1-20	1-12				
	Min. input increment	0.2um	0.001				
Magazine	Max. tool dia./with adjacent tool	42	φ78(φ135)			BT50 : φ110(φ220)	
	Max. tool weight BT-40 (BT-50)	KG	0.5	8 OP 15			
	Max. tool length(Arm/Carousel type)	mm	30	250/300	BT40 : 300 BT50 : 400		
	Tool selection		Position	Carousel / Arm			
	Tool capacity		8	16/20	16/20/24/32/40		
	Pull stud	角度	0	45			
	Tool changing time(T. to T.)	sec	12	2.5			
	Others	Spindle oil cooler	L	40			
Lubrication capacity		L/W	4/250				
Air conditioner		watt	250/200 CHR	40			
Coolant tank		L	200	450			
Pneumatic unit		kg/cm	6				
Weight & Dimension	Power	KVA	15	20	35	40	40
	N.W./G.W. (Approximate)	TON	3.5/4.5	5.2/6.5	13.5/14.5	16/18	21/24
	Packing(LxWxH)	M					
Dimension	Floor space(LxWxH)	M	2.6x1.4x2.4	2.9x2.9x2.9	3.8x3.5x3.6	3.8x5.5x3.7	4.5x6.3x4
							4.6x8x4

Specifications subject to change without notice.

MCV - 435um 微細加工 :

Standard Accessories:

1. Direct drive linear motor XYZ
2. M.P.G. XYZ
3. fully splash guard
4. Built-in Spindle 120,000RPM
5. Spindle air blast
6. Spindle chiller
7. Spindle sound-proof
8. Automatic lubrication system
9. Wash down nozzles
10. Halogen working lamp&alarm light
11. RS-232interface+10M cables
12. Heat exchanger on electric cabinet
13. M30 auto power off
14. Leveling pads and adjusting screws
15. Tool box with adjusting tools
16. Operating manual and part list

Optional Accessories:

1. Transformer
2. Voltage regulator
3. Seaworthy packing

MB 龍門系列:

Standard accessories:

1. Direct-coupled drive XYZ
2. M.P.G XYZ
3. Fully splash guard
4. Direct drive 10,000RPM
5. Spindle air blast
6. Spindle chiller
7. Spindle sound-proof
8. Automatic lubrication system
9. Coolant system
10. Washing gun and air gun
11. Wash down nozzles
12. Halogen working lamp & alarm light
13. RS-232 interface+10M cables
14. Heat exchanger on electric cabinet
15. M30 auto power off
16. Leveling pads & adjusting screws
17. Tool box with adjusting tools
18. Operating manual and part list
19. XYZ Roller type way
20. Rigid taping

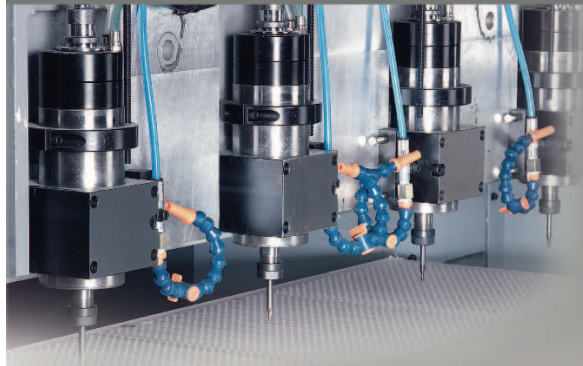
Optional accessories:

1. Coolant ring around spindle system
2. Coolant through spindle system
3. C.T.S. with seperated coolant tank
4. Upgrade spindle motor
5. 12,000/15,000/24,000 RPM HSK
6. 24/30T Arm type ATC (BT40)
24/40T Arm type ATC (BT50)
7. Chain type conveyor (except MB1207)
8. Scraper type conveyor (except MB1207)
9. Chip auger
10. Oil skimmer
11. Transformer
12. Voltage regulator
13. Seaworthy Packing

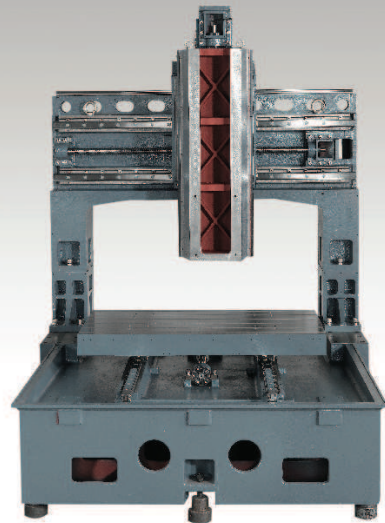
DOUBLE COLUMNS MACHINING CENTER 龍門加工中心機



PERFECT JET



PERFECT JET MB Series High Speed Double columns Machining Center
The Ultimate Machining Center for Mold and Die Machining
品正龍門加快速加中心，是模具加工和鑽磨加工最好的選擇



SPECIFICATIONS:

ITEM項目	單位	4R372
Travel 行程	XYZ axis	mm 320X700X250
	Spindle nose to table surface	mm 10-260
	Spindle center to column surface	mm 250
	XYZ way span	mm 442/800/680
	XYZ/W Ballscrew	mm $\phi 40/\phi 40/\phi 40$
	Repetition precision/Location-P	mm $\geq 0.01/\pm 0.005$
Spindle 主軸	Spindle taper	ER16
	Spindle transmission	Built-in
	Spindle speed	rpm 30000
Control 控制器	CNC control	As customer's need
	Spindle motor	KW 2.3
	XYZ servo motor	m/min $\alpha 8/HA80$
Table 工作台	Table size(WxL)	mm 1300X720
	Rapid feed rate(X/Y/Z)	M/min 30/30/15
Feed 進給	Cutting feed rate	M/min 1-12
	Mn. input increment	mm 0.001
	Magazine 刀庫	Max.tool diameter
Tool capacity		ea 5 (option)
Power Source 容量需 求	spindle oil tank	L 22
	Lubrication capacity	L 2
	Electric Power	KVA 15
	Pneumatic unit	kg/cm ² 6
Weight & Dimensio	NW./G.W.(Approximate)	KG 5000/5300
	Picking(LxWxD)	M 2.4x2.3x2.4

Specifications subject to change without notice.



DOUBLE COLUMNS MACHINING CENTER 龍門加工中心機



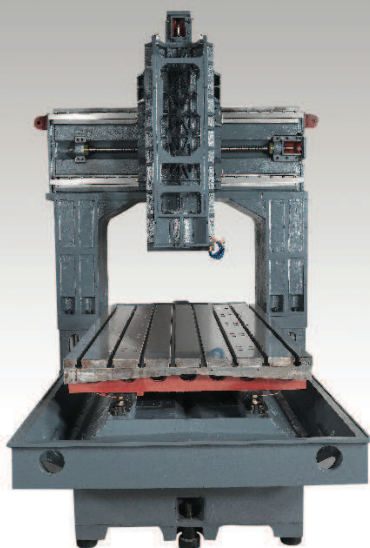
PERFECT JET



MB-1210

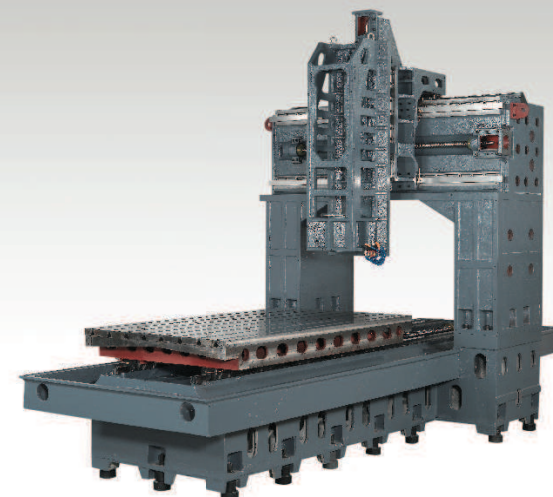


MB-1220



Dynamic Cutting test

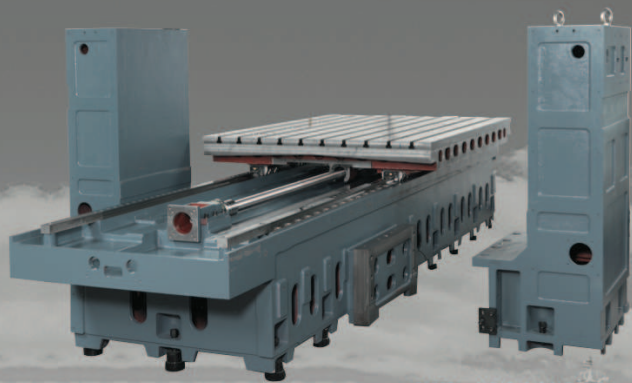
To ensure the machine achieves the best operational performance, we perform dynamic cutting test prior to shipping.



DOUBLE COLUMNS MACHINING CENTER 龍門加工中心機



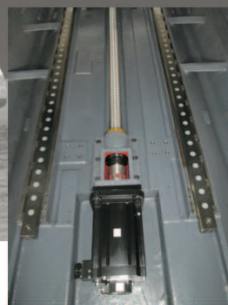
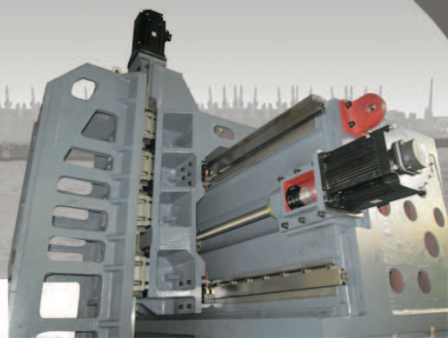
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MB-1620/1630



MB-1620/1630



■ 高強度的立柱與底座

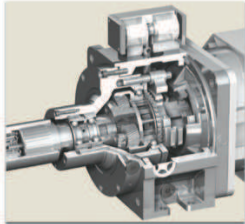
The extraordinary stiffness of the column and bed construction provides unmatched rigidity.

The massively constructed spindle head casting with generously proportioned internal ribs maximizes rigidity.

The perfect combination of a full enclosure and a properly shaped base provide leak-free operation and ease of chip removal.

Ballscrew $\varnothing 63 \times \varnothing 50 \times \varnothing 50$

Accessories 相同配件



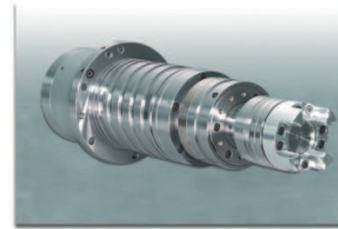
OP:ZF 1:4減速機



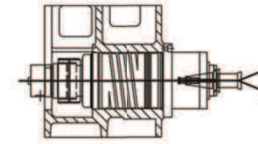
OP:24/30把刀刀臂式 Arm ATC



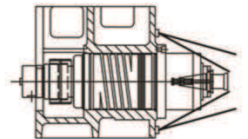
OP:高容量刀庫(40刀) Chain type ATC



採高鋼性直結式主軸 High rigid direct-coupled spindle 15000/10000 rpm



OP:CTS主軸中心出水
Coolant through spindle



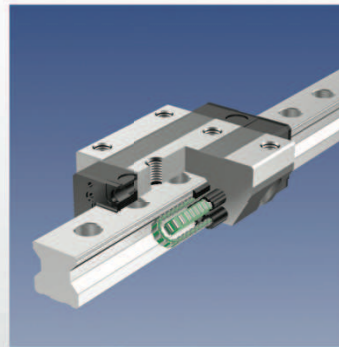
ST.:標準環狀出水
Coolant ring around spindle



三點組合
Equipped with high reliability lubrication pump and solenoid valves.



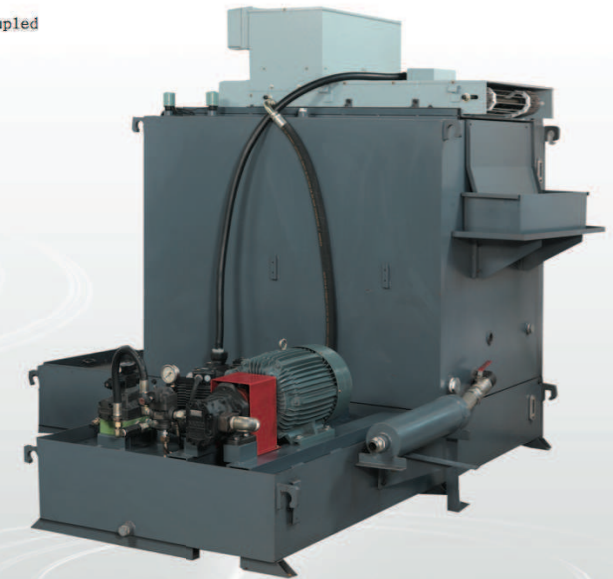
風槍水槍 Powerful air and wash down gun are conveniently built-in



滾柱線軌:Roller type guide way:
M55 for base, M45 for bridge and head,
MB-1207 M45 for base and bridge,
M35 for head



OP:簡易式 CTS
可到20BAR pump for CTS



OP:1. 高精度的CTS:0-70 BAR Variable coolant pump for CTS
2. 馬力10HP power supply
3-1磁鐵過濾機Magnetic filter.
3-2紙帶過濾機Paper filter
3-3羊毛氈過濾機Wool filter
(Particle size can be controlled under 0.02mm.)



直立式泵浦
Vertical coolant pumps



X/Y/Z: 三軸鋼珠螺桿雙帽
C3 3 axes double nut ballscrew C3



OP. 油水分離機 Oil skimmer:
Eco-friendly coolant disposal system

Cutting Material	Metallic Chip	Non-Metallic Chip	Spine Chip	Spine Chip
Metallic Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cast Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Curly Aluminum Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aluminum Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-Metallic Chip		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

鐵屑送機選購指示
RECOMMENDED TYPES OF CHIP CONVEYORS



OP.:鍊板式
Chain type chip conveyor

OP.:括板式
Scraper type chip conveyor