

Eumach

Always A Step Ahead



VERTICAL MACHINE CENTER

立式綜合加工機

VMC-1400

專業 CNC 機械製造廠

EMC / CE / ISO 9002 CERTIFIED

A PROFESSIONAL CNC MACHINES MANUFACTURER

VMC-1400

**THE Eumach MEDIUM SIZED,
UP TO 700 C.C./MIN ON STEEL**

新衛中型立式綜合加工機#50主軸重切



- 鑄件全部經過應力消除，與時效處理，確保機台能長期保持要求之高精度及使用壽命。
- All castings are stress relieved and seasoning treated for long term accuracy and long service life.

- 三軸採方型滑軌支撐，大幅提昇穩定性與抗震性，滑軌經硬化熱處理、研磨，滑動界面貼附TURCITE-B，配合精細刮花技術，降低滑動磨擦提昇進給性能。Y軸軌道採4硬軌設計，跨距超大，工作台左右運動無懸空情形。
- 3-Axis by using box type sideway achieve heavy machiningb ability and overall, a structure of outstanding stability. All slideways are hardened, precision ground and coated with TURCITE-B and sophisticate hand-scraping allowing a low friction and steaby movement Y-axis with 4 guideway box type sideway, X axis travers with full support.

#50 TAPER SPINDLE MACHINES, HEAVY CUTTING S45C. (WITH SOME OPTIONS)

削中碳鋼S45C最高可達700cc/分鐘去除率。(需搭配選購配件)



- VMC1400: 1400mm X 700mm X 760mm

SPINDLE (主軸)



- Standard BT#50 6000RPM (optional up to 10000RPM) Cartridge type spindle incorporated P4 high precision angular contact bearings ensures the maximum rigidity and highest accuracy. Optional BT#40 8000RPM up to 12000RPM belt drive available.
- 標準BT # 50 6000 轉主軸 (或選配 10000轉) 砲彈式主軸方便維修，採用精密P4級主軸斜角滾珠軸承，確保主軸最大剛性及精度。另有選配 BT#40 8000轉至12000轉皮帶傳動式主軸。



- Optional #40 taper direct coupling spindle, ceramic bearings inside, 12000RPM or 15000RPM.
- 選配 # 40直結式主軸，採用陶瓷軸承，速度可達12000轉或15000轉。



- Optional #40 or HSK-A63 taper built-in motor spindle. ceramic bearings inside spindle speed 18000RPM up to 24000RPM.
- 選配 # 40或 HSK-A63 內藏式主軸，採用陶瓷軸承，速度可達18000轉或24000轉。

Carousel type magazine (standard) 斗笠式刀庫 (標準配備)

- The machine is equipped with a 20-tool BT#50 carousel-type magazine which features fast tool change in only 10 seconds.
- 本機標準配備20支BT#50斗笠式刀庫，快速換刀時間為10秒。

standard #50 taper:

Specification- 規格刀數 Capacity : 20
最大刀重 Max. tool weight : 12kg



optional #40 taper:

Specification- 規格刀數 Capacity : 20
最大刀重 Max. tool weight : 6kg

BALL SCREWS' 2ENDS 滾珠螺桿兩端：



- 三軸螺桿與伺服馬達於兩側滑軌中央經由聯軸器直接連接。
- Large diameter ultra precision ballscrews directly coupled to the feed motor and are arranged in center of each guideways and close the cutting point.



- Each ballscrew end support is with pre extensioned devices for absolute screw straightness and long life. (patent no. 72650)

OPTIONAL ACCESSORIES (選購配件)



● TOOL LENGTH & RADIUS MEASUREMENT
刀長/徑量測



● WORKPIECE PROBE
工件量測



● COOLANT THRU SPINDLE DEVICE
主軸中心出水



● RING TYPE COOLANT NOZZLES &
TOOL LENGTH MEASUREMENT
主軸環狀冷卻噴水及刀長量測



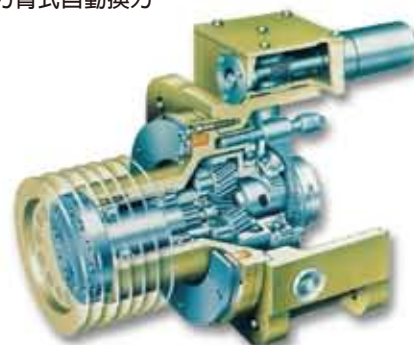
● CNC ROTARY TABLE
第4軸旋轉工作台



● AXIS LINEAR GLASS SCALES
光學尺回饋



● ARM TYPE AUTOMATIC TOOL CHANGE
20 / 24 / 32 / 40 TOOLS
刀臂式自動換刀



● PLANETARY GEARBOX HEAD
行星式齒輪箱主軸頭



● CHAIN TYPE CHIP CONVEYOR
履帶式排屑機

CNC CONTROLS AVAILABLE (控制器可選擇)



MITSUBISHI 三菱



FANUC 發那科



SIEMENS 西門子



HEIDENHAIN 海德漢

SPECIFICATIONS (規格)

UNIT:MM

MODEL	UNIT	VMC-1400
TABLE: 工作台:		
OVERALL SIZE 工作台尺寸	MM	1500×710
WORKING AREA 工作範圍	MM	1500×710
T SLOTS (SIZE×NO×PITCH) T型槽 (尺寸×個數)	MM	18×6×125
MAXIMUM LOADING 荷重	KG	1500
TRAVEL: 行程:		
X / Y / Z AXIS X / Y / Z 軸	MM	1400/700/760
DISTANCES: 距離:		
SPINDLE TO COLUMN WAYS 主軸中心到立柱軌道面	MM	760
SPINDLE TO TABLE TOP 主軸鼻端到工作台面	MM	125-885
FLOOR TO TABLE TOP 工作台面到地面	MM	850
SPINDLE: 主軸:		
TAPER 錐度	BT#	50
SPEED 轉速	RPM	6000
FRONT BEARING DIAMETER 直徑	MM	90
MOTOR (日系) 馬達馬力 (30分定格)	KW	15
AXIS MOTORS : X & Y / Z 三軸馬達:		
HEIDENHAIN / SIEMENS / SELCA 海德漢 / 西門子	NM	20
CUTTING FEEDRATE 切削進給率	MM/MIN	1-8000
RAPID FEEDRATE X / Y / Z : 三軸快率	M/MIN	15/15/12
MINIMUM SETTING 最小設定單位	MM	0.001
AUTOMATIC TOOL CHNGER: 自動換刀機構:		
TYPE OF ATC 形式		CARROUSEL 日內瓦輪式
NO. OF ATC 刀庫容量	TOOLS	20
MAX. TOOL (DIA / LENGTH) 最大刀徑/刀長	MM	125/300
MAX. TOOL WEIGHT 最大刀重	KG	15
TOOL TO TOOL 刀對刀	SEC.	10
CHIP TO CHIP 換刀動作完成	SEC.	20
BALLSCREWS ON 3 AXIS: 三軸滾珠螺桿:		
DIA. × PITCH (X.Y AXIS) 直徑×截徑	MM×MM	45×10
DIA. × PITCH (Z AXIS) 研磨精度	MM×MM	50×10
PRECISION CLASS 等級	C3, MM/300MM	0.008
COOLANT & LUBRICATION: 冷卻及自動潤滑機構:		
COOLANT MOTOR POWER 冷卻液馬達馬力	KW	0.86
COOLANT TANK VOLUME 冷卻水箱容量	L	120
COOLANT MOTOR CAPACITY 冷卻泵浦流量	L/MIN	20
LUBRICATION MOTOR POWER 自動注油器馬力	WATT	15
LUBRICATION TANK VOLUME 自動注油氣油箱容量	L	2
ACCURACY: 精度:		
POSITIONING 定位精度	MM	JIS 6338:±0.005MM / 300MM VDI 3441:P0.014MM
REPEATABILITY 重複精度	MM	JIS 6338:±0.003MM VDI 3441:PS0.01MM
ROUNDNESS 圓度精度	MM	JIS 6338:±0.01MM / 300MM DIAMETER
MISCELLANEOUS: 其他:		
MACHINE NET WEIGHT 機械淨重	KG	13000
POWER REQUIRED 電力需求	KVA	25
PNEUMATIC REQUIRED 空壓機壓力	KG/CM ²	7

STANDARD FEATURES & ACCESSORIES 標準附件

- FULL SPLASH GUARD.
- AUTOMATIC LUBRICATION SYSTEM.
- SPINDLE AIR BLAST SYSTEM.
- SPINDLE OIL COOLER DEVICE.
- WORKING LAMP.
- LEVELLING BOLTS & PADS.
- INDICATION LAMP FOR DWELL & END OF JOB.
- ALARM LAMP FOR ABNORMAL SITUATION.
- RS-232 TERMINAL INTERFACE PORT.
- MACHINE & CONTROL MANUALS.
- TOOLBOX WITH SPANNERS & WRENCHES.
- PROGRAMMABLE COOLANT SYSTEM.
- 全密式防屑罩
- 自動潤滑裝置
- 主軸吹氣裝置
- 主軸油冷機
- 工作照明燈
- 水平調整螺栓與基礎塊
- 暫停與工作完成指示燈
- 機械異常狀況警示燈
- RS-232介面
- 機械控制器手冊
- 工具箱附調整工具
- 可程式切削冷卻裝置



EUMACH FAMILIES



• **VMC-2150**
Vertical machine center
400MM ~ 3200MM X axis travel



• **TVMC-2000 / 3000**
Moving column machine center
2320MM & 3320MM X axis travel



• **LBM-1500**
High speed bridge type machine center
1100MM ~ 2200MM X axis travel



• **MH-500**
Horizontal machine center
720MM x 650MM x 650MM travel



• **EBM-2150**
5 Face machine center
1400MM ~ 3200MM X axis travel



• **MB-1500**
Moving column horizontal machine center
1100MM ~ 2200MM X axis travel



• **DVM-4025**
5 Face & double column machine center



• **FBE-1500**
Universal milling machine
1500MM ~ 4000MM X axis travel



• **FBM-10040**
Floor type milling center
4M~20M X axis travel

Eumach Co.,LTD.

★ Specifications subject to change without notice.
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