

EXTRAORDINARY. EFFICIENT. RELIABLE



TMX

MEX MACHINES

WHO WE ARE

We are a Mexican company of CNC machinery distribution in continuous growth and learning processes which our exciting industry offers, with over than 10 years of technical experience and support service. With reliable equipment and innovate machinery, but even more we offer business solutions that meet the specific needs and give way to development and new ideas, which are summarized in profitable and competitive business.

- ✓ Machining All Kinds Of Mechanical/ Assembly Parts
- ✓ For General Precision Molds

- ✓ 4 or 5-axes Rotary Table Motion for Complex Parts
- ✓ For Variety Or Small Amounts Of Parts

VM Series

STRONG CUTTING

Widely Used In Precision Parts And Tooling

Extraordinary Flexibility In Application Highest Efficiency In Production

Super Spindle Power With 15Kw Standard



High efficiency, rare kinds but massive production is the elementary necessity that every manufacturer has in worldwide markets. The proven quality of VM Series machines are in providing of customers' productivity.

Standard Spindle Motor with 11/15Kw is also worked with servo motors in 3-axes with 2/2/3Kw, and continuingly offers required power and thrust, while doing heavy cutting. Enlarged castings of column and head on VM series, in order to allows Y-axis travel up to 600mm; making the applications widely used to ultimate ranges.



Face Milling		
Tool	D63-45° F.M. Cutter	D63-45° F.M. Cutter
Spindle	1500	4000
Feedrate	1500	6000
Cutting Depth	5mm	4mm
Cutting Width	50mm	60mm
Material	S45C	ALC
Chip removal rate	375C.C.	1440CC.



Drilling		
Tool	D50 Tapper-Shank Drill	D50 Tapper-Shank Drill
Spindle	260	300
Feedrate	26	60
Cutting Depth	35mm	35mm
Material	S45C	AL5083



End Milling		
Tool	D40 4-blade E.M. Cutter	D40 4-blade E.M. Cutter
Spindle	2000	2500
Feedrate	1600	3000
Cutting Depth	3.0mm	10.0mm
Cutting Width	35mm	25mm
Material	S45C	ALC
Chip removal rate	168C.C.	750C.C.



Tapping		
Tool	M24 x P3 Tap	M30 x P3.5 Tap
Spindle	150	200
Feedrate	450	700
Cutting Depth	30mm	35mm
Material	S45C	AL5083

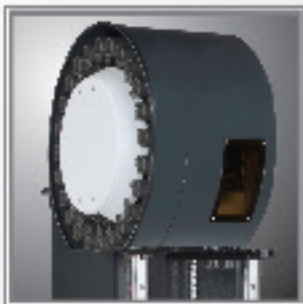
Extensively Used In All Kinds Of Applications

No matter if for machinery/assembly parts, or general machining for molds, VM Series machines can let you have the ultimate efficiency in production, which is definitely an utmost & economic investment.



600 Y axis
mm.

Rapid Travel 36 M/Min in Three Axes



TOOL TO TOOL/ 1.5 SECS.

For VM Series, Arm type of tool changing system driven by servo motor is STANDARD. Hi-speed and constant of tool changing can supply you best effect & quality of impressive manufacturing.

MITSUBISHI M80 control

With the convention-shattering performance of the world's fastest CNC series and features like super Smooth Surface (SSS) control, the M80 Series CNC controls from Mitsubishi Electric ensure you achieve faster, smoother operation, along with a better finish and less scrap - meaning higher productivity and profitability for your business.

CNC-dedicated CPU

The world's fastest CPU, designed for high throughput and complicated machining applications. This gives you a faster cycle time due to a higher capability in program processing and more accurate machining due to faster CNC-to-drive communication.

Intuitive Touchscreen Operation

- Icon-based navigation improves usability for experienced and novice operators.
- Screen sizes vary from 10.4-inch, 15-inch and 19-inch for improved screen visibility, along with integrated document viewing.
- You have the ability to pinch, flick and scroll like a smartphone or tablet.

High-speed, High-accuracy Mode -

G5P20000 comes standard, allowing you to run complex, highly precise 3D mold work without experiencing a reduction in performance.

	Control	Blocks per minute
Processing	M80A	135,000
Memory	M80A	512 KB
Look ahead	M80A	1,350 Blocks



Solid State Hard Drive & Improved SSS Control

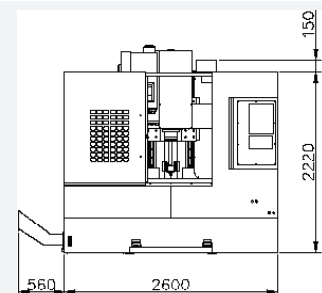
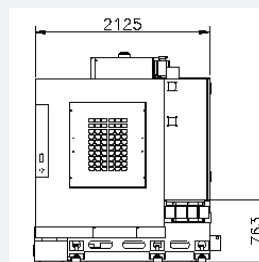
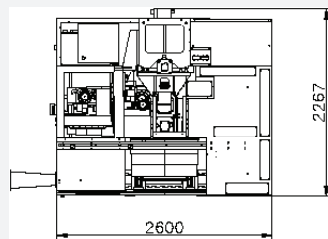
- Solid state hard drives have no moving parts, which translates into superior reliability, faster processing speed and more uptime for your operations.
- Improved SSS Control - Reduces machine vibration during high-speed cutting and optimizes acceleration/deceleration times for each axis. This allows for shorter cutting times with a high degree of accuracy.

Large Capacity SD Card Expansion

- The control has 2 expansion slots for 32GB SD cards allowing for a total of 64GB of added memory expansion.
- This enables you to read, write, run and transfer programs via the SD card without lag.
- Subprogram calls are available as well.
- The additional memory also allows for large capacity machining programs or graphic data, increasing the possibilities for you to add custom screens.

Dimension Drawing

X axis travel : 850



VM Specification

Item/ Model	Unit	VM-850
Control		Mitsubishi M80(A)
3 Axes Travel		
X-axis Travel	mm	850
Y-axis Travel	mm	600
Z-axis Travel	mm	560
Distance From Spindle Center to Table Surface	mm	150-710
Spindle		
Spindle Speed	rpm	8000
Type		Direct Drive Spindle
Spindle Nose		CT-40
Spindle Motor (Continual/ 30 min)	KW/HP	11/15 // 15/20
Table		
Table Size	mm	1050x600
T-slot Size	mm	18x5x100
Max. Table Capacity	kgs	600
Rapid Travel		
Rapid Travel (X/Y/Z)	m/min	36 / 36 / 36
Acceleration	G	0.8 / 0.5 / 0.5
Cutting Speed Rate	m/min	10
Positioning Accuracy Full travel (Unit:mm)	mm	.008
Repetibility Accuracy Full travel (Unit:mm)	mm	.005
Tool Magazine		
Tool Change Type		Arm Type (Servo)
Tool Capacity	set	24
Max. Tool Weight	kgs	8
Max. Tool Length	mm	250
Max. Tool Diameter	mm	80/150
Machine Dimension	mm	2600x2254x2839
Net Weight	kgs	5000

* All specification design and characteristics shown in this catalogue are subject to change without prior notice.

* Mex Machines S.A de C.V. will not be legally responsible for any unauthorized modification on the machine or other equipment.

Standard Equipment - Belt Head 8,000rpm
 - Arm Type 24 Tools
 - Spindle Tool Change Air Blow
 - Drawer Type of Chip Conveyor
 - Side Flush System
 - Rollers Linear Ways for 3 Axes

Optional Equipment - Belt Head 10,000rpm
 - Link Type Chip Conveyor
 - 4th Axis (CNC Rotary Table)
 - CE Normative (Safety Door Included)
 - Disk Type Oil Skimmer
 - Transformer
 - Tool Length Measurement System
 - Arm Type 24 Tools
 - Spindle Oil Cooler

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