



MANFORD MACHINERY, INC.

4230 E Airport Dr. Ste.105, Ontario, CA 91761
Tel: (909) 923-5520 Fax: (909) 923-5509

P.O. Box 7002, West Orange, NJ 07052
Tel: (201) 729-1100 Fax: (201) 729-1155

[URL:www.manford-usa.com](http://www.manford-usa.com) [e-mail:sales@manford-usa.com](mailto:sales@manford-usa.com)

CNC Tool Room Milling Center MODEL: VM-1000

MACHINE FEATURES

- 7.5HP high torque spindle motor, low noise and vibration
- BT40/CAT40/DIN40 6000 rpm spindle speed, (Optional 8,000, 10,00, 12,000 or 15,000rpm) with P4 angular contact spindle bearings.
- 32mm,C5 precision ground ballscrews to minimize backlash, provides high precision movement and reduces heat deformation on all axes.
- Fully Counterbalanced Z Axis Slide with Zaxis brake Motor to Eliminate Spindle and part Damage on Power Failure.
- Precision linear guide ways are installed on each axis to provide high speed and high accuracy performance.
- Meehanite Casting with annealed & stress relieved
- Direct-driven transmission between motor and ballscrew by coupling provides zero backlash.
- 100% Laser tested for positioning accuracy & repeatability
- Ball Bar tested for circular interpolation accuracy
- Table and chip Guarding (Option)
- Cam operated Genoa type 10-station ATC (option)
- Telescopic steel way cover on three axes (option)
- Tool box & Tools
- Coolant System and air blast system (Option)
- Central lubrication system, auto power off
- Built-in Quartz work light and Alarm lamp (option)
- Rigid tapping (Option)
- Positioning Accuracy: ± 0.0004 "/ft
- Repeatability Accuracy: ± 0.0002 /ft



Specification:

TABLE

T-Slot (Size x Qty x Distance)

Longitudinal travel:

Cross travel :

Vertical travel:

Table Load:

Spindle nose to table top:

Column surface to center of table:

SPINDLE

Spindle taper:

Spindle Speed (r. p.m.):

12" x 58" (305 x 1470mm)

0.63" x 3 x 4"

40" (1000mm)

16" (400mm)

16" (400mm)

1000 lbs evenly distributed

4"-20"(102-502mm)

9"-25" (229-635mm)

CT#40

6000 rpm (8000-15,000 optional)



MANFORD MACHINERY, INC.

4230 E Airport Dr. Ste.105, Ontario, CA 91761
 Tel: (909) 923-5520 Fax: (909) 923-5509

P.O. Box 7002, West Orange, NJ 07052
 Tel: (201) 729-1100 Fax: (201) 729-1155

[URL:www.manford-usa.com](http://www.manford-usa.com) [e-mail:sales@manford-usa.com](mailto:sales@manford-usa.com)

Spindle center to column front surface:	16.26" (413mm)
Spindle motor:	7.5HP AC SERVO SPINDLE MOTOR
Max Torque:	26 ft – lb @ 1500 rpm
Drive on XYZ:	1KW AC SERVO
Max Thrust rating:	2000 lb
TOOL CHANGER:	
Capacity:	10-station
Max. Tool Diameter:	Full:3.9" Next Empty:5.9"
Max. Tool Length:	4"
Max. Tool Weight:	13.4 lb
Tool-to-Tool (avg.):	5.7 Sec.
FEED RATE:	
XYZ axes feed rates (per min.):	393 inch/min
Rapid traverse X,Y,Z axes(per min.):	472 inch/min
GENERAL:	
Coolant pump:	1/6HP
Lubrication pump:	80W
Air Source:	6Kg/cm2 (70 psi)
Power requirement:	12 KVA
Length X Width X Height (AXBXC):	101"x88"x106.3" (2560 mm x 2245mm x 2700mm)
Net Weight:	6160 lbs. (2800 Kgs)

Includes 3 axes 32mm/Pitch 5 /C 5 class precision ground ballscrew,
 Mounting brackets and pulleys with belts, motor mounting plates.

With CNC Controller package price:

MODEL	CNC SYSTEM	MOTOR		Netl Price
		SPINDLE	FEED MOTORS	UNIT PRICE
VM-1000	Fagor 8055i	7.5 HP	1Kw AC Servo	\$52,000

With CNC Controller package price:

- FAGOR 8055i FL 3 axis CNC system complete \$ 52,000.00
- Memory: 500MB of memory card (expandable Compact flash of up to 2 Gb flash memory)
 - USB connector for backup of programs, parameters and tables.
 - Ethernet Interface. TCP-IP protocol.
 - Opto-coupled RS-232 serial line (115,200 baud).
 - PLC's opto-coupled digital I/O: 16 inputs and 8 outputs (24V DC, 150 mA).
 - Optional expansion of opto-coupled digital PLC I/O: 40 inputs and 24 outputs (24 V DC, 150 mA).
 - Feedback input and analog output for the spindle.

Optional analog expansion of 4 feedback inputs of 1 Vpp/TTL and 4 analog outputs.

Includes:

CNC 8055i/Plus color 11" LCD MC Compact
 4 axes milling simultaneous capacity, Ethernet communication, USB Interface
 3D solid graphics, Pockets with Island (2D/3D)
 Profile Editor, Software MC Conversational feature
 M3/M4/M8 relays for Spindle on/off, coolant on/off, emergency button



MANFORD MACHINERY, INC.

4230 E Airport Dr. Ste.105, Ontario, CA 91761
Tel: (909) 923-5520 Fax: (909) 923-5509

P.O. Box 7002, West Orange, NJ 07052
Tel: (201) 729-1100 Fax: (201) 729-1155

[URL:www.manford-usa.com](http://www.manford-usa.com) [e-mail:sales@manford-usa.com](mailto:sales@manford-usa.com)

Milling DNC software ,WINDNC communication software / Import DXF files

Optional Accessory:

General:	Price
CT40 Arm type 16 tools ATC	\$5600
Full Enclosure	standard
Coolant pump system	standard
Rigid Tapping	standard
Work Light	standard
Way Covers for Y and Z Axis	standard
Spindle Orientation	standard
End of Program and Alarm Light	standard
Coolant through spindle center (30 Bar)	\$5,600.-
Oil through tool holder	\$1,000.-
External Transformer , 420-510-240V, 60HZ, 15 KVA	\$1,200.-
MPG	\$400.-

F.O.B.: Ontario, CA

DELIVERY: in stock, 2 weeks after receiving your confirmed P/O with down-payment

STANDARD TERMS OF PAYMENT:

A minimum down payment of 20% of the purchase price at receipt of order. Balance, 30 days after date of shipment.

TAXES: Federal, State, Local Taxes are the responsibility of Purchaser.

VALIDITY: This proposal is valid for 60 days.

INSTALLATION:

After the machine has been positioned, cleaned, leveled and the customer has provided electric power service, hydraulic, lubrication oil, cutting oil, cutting tools, etc. a service technician can be dispatched to the installation site by customer's request and all expenses will charge to customer. The technician will place the machine in service, verify proper operation and provide instructions to operating and maintenance personnel. This will need to be pre-arranged in sales contract if the service is needed.

WARRANTY:

One-year warranty for Fagor controller and one-year warranty for all mechanical and electrical components.