



## *“M” Class Machining Center MODEL: M320*

### MACHINE FEATURES

2008

- **Centroid M400 control with 15” LCD**
- **16 tools ATC Armless**
- **15HP Spindle Motor, BT40 or CAT40 Spindle Taper**
- **8,000 rpm spindle speed with spindle oil cooler**
- **Hardened & Ground** with turcite-B coating guide way
- C3 Double nut **precision ball screws hardened & ground** for high accuracy and long lasting
- **FC30 Meehanite Casting** main frame with annealed & stress relieved for long term reliability
- **100% Laser tested** for positioning accuracy & repeatability
- **4 Box ways design** on Y axis to provide maximum rigidity & stability
- Telescopic steel way cover on three axes
- Tool box & Tools
- Coolant System and air blast system
- Central lubrication system
- **Built-in Quartz work light**
- **Rigid tapping**(opt.)
- Portable Hand Wheel (opt.)



### Specification:

Table:	18" x 36.6" (460 x 930mm)
Longitudinal travel (X axis):	34" (860mm)
Cross travel:	20" (510mm)
Vertical travel:	24" (610mm)
Spindle nose to table top (D):	4.8"-28.8" (122-732mm)
Load capacity:	2000 lb. (909 Kg)
Spindle taper:	BT40 or CAT40
Spindle Speed (r. p.m.):	8000 rpm
Transmission of spindle & motor:	Belts
Spindle center to column front surface:	21.7" (550 mm)
<b>Feed Rate:</b>	
Rapid feed rate:	X/Y/Z: 500 ipm
Cutting feed rate:	1-180 ipm
<b>Motor:</b>	
Spindle motor/max torque:	15HP/75NM
Feed motors on XYZ:	2 Kw
Coolant pump:	0.3Hp
Lubrication pump:	150W
Power requirement:	25 KVA, 3 Phase 208-230 voltage
<b>Automatic Tool Changer</b>	
No. of tools:	16
Max. tool diameter:	3.5" (90 mm)
Max. tool length:	
Max. tool weight:	15 lb (7 Kg)
Length X Width X Height (LXWXH):	98.5" x 90" x 90" (2500mm x 2280mm x 2280mm)
Net Weight:	10,010 lbs. (4550 Kgs)



# ATRUMP MACHINERY, INC.



URL: <http://cncmachinesinmotion.com>  
E-mail: [sales@cncmachinesinmotion.com](mailto:sales@cncmachinesinmotion.com)

993 Carbon Canyon Rd. Chino Hills, CA 91709  
Office: (714) 528-7061 Fax: (714) 528-4892

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### CNC VERTICAL MACHINEING CENTER ( BOX WAY )

MODEL	SPINDLE	Travel X/Y/Z	ATC Armless	CNC SYSTEM	SPINDLE MOTOR	AXES MOTOR	FOB CA
<b>M320</b>	BT40/CAT40	34/20/24”	16 Tools	M-400	11Kw (15HP)	2 Kw	<b>\$68,310</b>

### STANDARD ACCESSORIES:

Tools & box	Full guarding	Shop floor programming/Conversational
Leveling bolts & plate	USB 2.0	Auto Lubrication / coolant system
RS-232 Interface	Auto lube system	Halogen work light
Operation manual	Air blast, coolant flush gun	Files Transfer by Ethernet or USB memory device

### Additional Accessories information:

Power requirement	17 KVA 3 phase 208V/230Vmax
Air requirement	90 - 100 psi
Type of oil for Way oil / oil chiller / pneumatic oil	Mobil Vactra #2 / Shell Tellus 32 / Air tool oil
Coolant capacity	26 Gallons

### MACHINE OPTIONAL ACCESSORIES:

1. 20 PCS SET OF 45° RETENTION KNOBS FOR AUTOMATIC TOOL CHANGER	<b>\$ 300.00</b>
2. HIGH VOLTAGE OPTION (TRANSFORMER): 220 VOLTS TO 440 OR 480 VOLTS	<b>\$ Call</b>
3. CHIP AUGER	<b>\$ 4,400.00</b>
4. 6" ANGLOCK TYPE VISE WITH SWIVEL BASE	<b>\$ 275.00</b>
5. MOTOR UPGRADE FROM 10 HP TO 15 HP	<b>\$ 2,200.00</b>
6. COOLANT THROUGH SPINDLE (MAY ONLY BE ORDERED AT THE TIME OF PURCHASE)	<b>\$ 7,260.00</b>

### OPTIONAL CONTROL ACCESSORIES:

Since each customer has different needs and expectations for his machine tool, you can order your CNC machine with the features that fit your needs today. Then, in the future, upgrade your machine with just a phone call.

#### Software Options

1. Multi work coordinate system [G55-59]	700.00
2. Subprograms & Macros [M98 & G65]	INCL
3. Scaling and Mirroring [G50 & G51]	495.00
4. Unlimited Program Memory (1 meg is standard)	1,495.00
5. Millwrite Engraving software.	665.00
6. Rigid tapping	Call for price
7. Compression tapping	350.00
8. Ball screw mapping	500.00
9. Intercon programming software for your desk top PC (standard on your control)	840.00
10. Coordinate System Rotation	495.00
11. DXF input, tool path generator	495.00
12. On-site setup of network communication between your control and one desk top (windows based) computer.	700.00
13. Technical documents and telephone assistance for the setup of network communication between your control and one desk top (windows based) computer or a multi computer company network.	345.00



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### Software Packages:

- B.** Multiple work coordinates, Sub routines and Macros, Scaling and mirroring. All for 1,850.00
- C.** Unlimited file size, Scaling and mirroring, Coordinate system rotation. All for 1,699.00
- D.** Deluxe tool room package - a “Machines in Motion exclusive offer” including:
  - Tool touch off device and software unlock.
  - Digital touch probe and probing software unlock.
  - Coordinate system rotation unlock. All for 3,520.00

### Digitizing and Probing

- 10405 Probing package includes DP-4 probe hardware and probing cycles software. 2,210.00
- 10228 Digitizing software (3D surface copying). Complete package includes Unlimited program memory and Scaling & mirroring software options. Also includes Mold Magic, desk top software for reposting digitized tool path compensating for different tool sizes and milling step over. 4,200.00
- 10220 TT-1 Tool height touch off kit. Comes with touch off hardware and software. 755.00

### Accessories

- 10014 MPG Handwheel with axis selector 670.00
- 4<sup>th</sup> Axis upgrade Prices start at 5,279.00

**STANDARD TERMS OF PAYMENT:** 20% down-payment, terms to suit available.

**VALIDITY:** This proposal is valid for 60 days.

**Training:** 1Day of basic control use training is included. Travel expense may be additional. (U.S.A only)

**WARRANTY:** One-year warranty for any defects in material or workmanship of machine tool and factory installed components.

**Contact: Doug Laursen** of Machines in Motion Inc. **Personal cell phone number 714 404-2996**

*\*\* WE RESERVE THE RIGHT TO CHANGE DESIGN, COLOR, SPECIFICATIONS, OR PRICE WITHOUT NOTICE \*\**