



“M” Class Machining Center MODEL: M422

MACHINE FEATURES:

2008

- * **ISO 9001** QUALITY ASSURANCE
- * LATEST CENTROID CONTROL M400 WITH 15" LCD.
- * 3-AXIS **DIGITAL AC 2.2 KW SERVO DRIVE MOTOR** DIRECT COUPLING DRIVE
- * **CLASS 7 BEARING** FOR SPINDLE RUN OUT LESS THAN 0.00015".
- * 220 V 15 HP **ELECTRONIC VARI SPEED WITH SPINDLE HARDENED & GROUND** TABLE / CENTER T SLOT (GROUND FOR QUICK SETTING).
- * **MEEHANITE CASTING** TO PROVIDE MAXIMUM RIGIDITY AND STABILITY.
- * **SQUARE SLIDE WAYS** ON X, Y & Z-AXIS.
- * X, Y & Z-AXIS METAL TELESCOPING WAY COVER.
- * **4 BOX WAYS DESIGN** ON Y-AXIS FOR LONG-TERM RELIABILITY.
- * **SUPER WIDE SADDLE** TO ENSURE ACCURACY MOVEMENT.
- * ALL AXES HAVE HIGH PRECISION, **CLASS C3**, PRE-TENSION **BALLSCREW** TO ENSURE HIGH ACCURACY.
- * **HARDENED & GROUND** X, Y & Z-AXIS WAY WITH **TURCITE B COATING** TO ELIMINATE STICK-SLIP.
- * **ATC** UMBRELLA TYPE TOOL CHANGER, 20 MAGAZINE.
- * SPINDLE TAPER CAT 40 OR BT 40.
- * AUTOMATIC FLOOD (M8) COOLANT SYSTEM OR MIST COOLANT (M7), SPECIFY AT TIME OF ORDER.
- * **LASER COMPENSATION** TO ENSURE HIGH ACCURACY +/-0.0002" POSITION 0.0001" REPEATABILITY.
- * FINITE ELEMENT ANALYSIS (FEA).
- * MACHINE MADE IN TAIWAN, CONTROL **MADE IN U.S.A.**



MACHINE STANDARD ACCESSORIES:

- 20 TOOL MAGAZINE
- X, Y & Z-AXIS METAL TELESCOPING WAY COVERS
- TABLE GUARD
- CHIP TRAY
- AUTO LUBE SYSTEM
- OPERATION MANUALS
- TOOLS & TOOL BOX
- LEVELING BOLTS & PADS

CONTROL STANDARD ACCESSORIES:

- SHOP FLOOR PROGRAMMING
- CUTTER RADIUS COMPENSATION
- CANNED DRILLING CYLES
- G-CODE BACKPLOT
- DRILLING CYCLES
- SPINDLE MULTI GEAR RANGE
- Files transfer by USB or Ethernet
- OPERATION MANUAL & TRAINING DVD/CD

MACHINE SPECIFICATIONS:

MILL ACCURACY:

POSITIONING: _____ ±0.0002"
 REPEATABILITY: _____ ±0.0001"

TABLE:

WORK TABLE: _____ 20" X 49.5"
 TABLE T-SLOTS (WxN): _____ 0.71" X 5
 MAX. TABLE LOAD (CENTER): _____ 2,200 LBS.



ATRUMP MACHINERY, INC.



URL: <http://cncmachinesinmotion.com>
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993 Carbon Canyon Rd. Chino Hills, CA 91709
Office: (714) 528-7061 Fax: (714) 528-4892

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TRAVELS:

X-AXIS TRAVEL: _____ 42"
Y-AXIS TRAVEL: _____ 22"
Z-AXIS TRAVEL: _____ 27.5"
SPINDLE NOSE TO TABLE: _____ 4.8" TO 28.8"
SPINDLE CENTER TO COLUMN: _____ 23.62"

SPINDLE:

SPINDLE TAPER: _____ CAT #40 45° KNOB (BT OPT.)
SPINDLE SPEED: _____ 60 ~ 8,000 RPM.
SPINDLE TORQUE OUTPUT: _____ 70 FT-LBS (96NM) OPT: 95 FT-LBS (130NM)
3-AXIS DRIVE MOTOR: _____ AC 2.2 KW. MOTOR
SPINDLE BEARINGS: _____ ABEC CLASS 7

FEED:

RAPID FEED: _____ 500 IPM.
CUTTING FEED: _____ 1-200 IPM.
MINIMUM INPUT INCREMENT: _____ 0.0001"

AUTOMATIC TOOL CHANGER:

ATC TYPE: _____ UMBRELLA TYPE
NUMBER OF TOOLS: _____ 20
MAX. TOOL DIAMETER: _____ Φ 3-15/16"
MAX. TOOL LENGTH: _____ 10-15/16"
MAX. TOOL WEIGHT: _____ 15 LBS.
TOOL CHANGE TIME: _____ 9 SECONDS
PULL STUD/RETENTION KNOB: _____ STANDARD 45°

MOTORS:

SPINDLE MOTOR: _____ 15 HP., 3 Φ 220 VOLTS
KVA RATING / AMPS: _____ 25 KVA / 60 AMPS
MAXIMUM MOTOR OUTPUT: STANDARD 15HP (30MIN) 20HP (PEAK) – OPTIONAL 20HP (30MIN) 28HP (PEAK)
COOLANT PUMP MOTOR: _____ ¼ HP, 3 Φ 220 V., (1/2 HP. FOR FULL ENCL.)
LUBRICANT: _____ 1 Φ 220 V., WAY OIL #2 BY HANGSTEFERS

ADDITIONAL INFORMATION:

BALLSCREW DIAMETER: _____ 1-9/16"
AIR REQUIREMENTS: _____ 80 ~ 90 PSI
COOLANT FLOW/CAPACITY: _____ 30-36 GALLONS
FLOOR SPACE: _____ 126" X 100" X 83.5"
WEIGHT: _____ 12,980 LBS.

BASE PRICE:

ATRUMP M422 VMC with full enclosure

_____ \$ 88,880.00



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MACHINE OPTIONAL ACCESSORIES:

1. 20 PC SET OF 45° RETENTION KNOBS FOR AUTOMATIC TOOL CHANGER _____	\$ 300.00
2. HIGH VOLTAGE OPTION (TRANSFORMER): 220 VOLTS TO 440 OR 480 VOLTS _____	\$ Call
3. MOTOR UPGRADE FROM 15 HP. TO 20 HP. _____	\$ 2,750.00
4. _____	\$ _____
5. CHIP AUGER, ONLY AVAIL. WITH FULL METAL ENCL. _____	\$ 4,730.00
6. 6" ANGLOCK TYPE VISE WITH SWIVEL BASE _____	\$ 275.00
7. 52 PC. CLAMPING KIT (IMPORT) _____	\$ 66.00
8. VACU-VISE 12" X 12" VACUUM TABLE _____	\$ 1,295.00
9. VACU-VISE 24" X 16" VACUUM TABLE _____	\$ 1,995.00
10. VENTURI VACUUM GENERATOR (FOR USE WITH VACU-VISE TABLES) _____	\$ 375.00
11. UPGRADE TO 12,000 RPM _____	\$ 5,280.00
12. COOLANT THROUGH SPINDLE (MAY ONLY BE ORDERED AT THE TIME OF PURCHASE) _____	\$ 7,260.00
13. SWING ARM (DOUBLE ARM) TOOL CHNAGER (ONLY AVAILABLE AT TIME OF ORDER) _____	\$ 6,160.00

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]	1,495.00
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	995.00
7. Compression tapping	350.00
8. Ball screw mapping	INCL
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
14. 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



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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 th	Axis upgrade	Prices start at 3,850.00

STANDARD TERMS OF PAYMENT:

20% down-payment, balance due at time of shipment.

Terms can be negotiated to accommodate lenders and leasing company requirements.

VALIDITY: This proposal is valid for 60 days.

Training: CNC Machines purchased from Machines in Motion Inc. include free machine setup and on-site control use training. Additional days of on-site services are available at 1/2 our normal daily rate.

Travel related expenses additional.

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 ***