



“M” Class Machining Center MODEL: M632

MACHINE FEATURES:

2008

- * **ISO 9001** QUALITY ASSURANCE
- * LATEST CENTROID CONTROL M400 WITH 15" LCD.
- * 3-AXIS **DIGITAL AC 3 KW. SERVO DRIVE MOTOR**
- * **CLASS 7 BEARING** FOR SPINDLE RUN OUT LESS THAN 0.00015".
- * 220 V., 25 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 COVERS.
- * **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 **BALLSCREWS** TO ENSURE HIGH ACCURACY.
- * **HARDENED & GROUND** X, Y & Z-AXIS WAY WITH **TURCITE B COATING** TO ELIMINATE STICK-SLIP.
- * **ATC** ARM TYPE TOOL CHANGER, 24 MAGAZINE.
- * CAT 50 OR BT 50 SPINDLE TAPER.
- * AUTOMATIC FLOOD (M8) COOLANT SYSTEM OR MIST COOLANT (M7), SPECIFY AT TIME OF ORDER.
- * **LASER COMPENSATION** TO ENSURE HIGH ACCURACY +/-0.0004" POSITION 0.0002" REPEATABILITY.
- * FINITE ELEMENT ANALYSIS (FEA)
- * MACHINE MADE IN TAIWAN, CONTROL **MADE IN U.S.A.**



MACHINE STANDARD ACCESSORIES:

- 24 TOOL MAGAZINE
- X, Y & Z-AXIS METAL TELESCOPING WAY COVERS
- TABLE GUARD
- CHIP TRAY
- AUTO LUBE SYSTEM
- OPERATION/PARTS 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
- ETHERNET & USB MEMORY DEVICE SUPPORT
- OPERATION MANUAL & TRAINING VIDEO TAPE

MACHINE SPECIFICATIONS:

MILL ACCURACY:

POSITIONING: _____ ±0.0004"
 REPEATABILITY: _____ ±0.0002"

TABLE:

WORK TABLE: _____ 28" X 71"
 TABLE T-SLOTS (WxN): _____ 0.71" X 6
 MAX. TABLE LOAD (CENTER): _____ 4,000 LBS.



ATRUMP MACHINERY, INC.



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TRAVELS:

X-AXIS TRAVEL:	_____	63"
Y-AXIS TRAVEL:	_____	31.5"
Z-AXIS TRAVEL:	_____	31.5"
SPINDLE NOSE TO TABLE:	_____	8" TO 39.6"
SPINDLE CENTER TO COLUMN:	_____	33.26"

SPINDLE:

SPINDLE TAPER:	_____	CAT #50 45° KNOB (BT OPT.) OR CAT 40
SPINDLE SPEED:	_____	60 ~ 4,500 RPM (#50), 60 ~ 6,000 RPM (#40)
SPINDLE TORQUE OUTPUT:	_____	95 FT-LBS. (130 NM)
3-AXIS DRIVE MOTOR:	_____	AC 4 KW. MOTOR
SPINDLE BEARINGS:	_____	ABEC CLASS 7

FEED:

RAPID FEED:	_____	360 IPM.
CUTTING FEED:	_____	1-200 IPM.
MINIMUM INPUT INCREMENT:	_____	0.0001"

AUTOMATIC TOOL CHANGER:

ATC TYPE:	_____	ARM TYPE
NUMBER OF TOOLS:	_____	24
MAX. TOOL DIAMETER:	_____	Φ3-15/16"
MAX. TOOL LENGTH:	_____	10-15/16"
MAX. TOOL WEIGHT:	_____	33 LBS.
TOOL CHANGE TIME:	_____	3 SECONDS
PULL STUD/RETENTION KNOB:	_____	STANDARD 45°

MOTORS:

SPINDLE MOTOR:	_____	25 HP., 3Φ 220 V.
KVA RATING / AMPS:	_____	40 KVA. / 80 AMPS.
MAXIMUM MOTOR OUTPUT:	_____	STANDARD 25 HP. (30 MIN) 32 HP. (PEAK)
COOLANT PUMP MOTOR:	_____	1 HP., 3Φ 220 VOLTS
LUBRICANT:	_____	1Φ 220 V, WAY OIL #2 BY HANGSTEFERS

ADDITIONAL INFORMATION:

BALLSCREW DIAMETER:	_____	1-9/16"
AIR REQUIREMENTS:	_____	80 ~ 90 PSI
COOLANT FLOW/CAPACITY:	_____	40-46 GALLONS
FLOOR SPACE:	_____	168" X 118" X 113"
WEIGHT:	_____	23,180 LBS.

BASE PRICE:

ATRUMP M632 VMC without full enclosure	_____	\$ 124,960.00
M632 VMC with full machine enclosure	_____	\$ 132,660.00



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MACHINE OPTIONAL ACCESSORIES:

- 1. 24 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 25 HP. TO 30 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. COOLANT THROUGH SPINDLE (MAY ONLY BE ORDERED AT THE TIME OF PURCHASE) _____ \$ 7,260.00

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] 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 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 5,279.00

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 ½ 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 ***