

CNC Bed Mill Model: BM-560H

- **Centroid M400 control with 15" LCD**
- **10 HP spindle motor, CAT40 spindle taper**
- **8,000 rpm spindle speed**
- Hardened & ground with Turcite-B coating guide way
- 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
- Box ways design on Y & Z axis to provide maximum rigidity & stability
- Standard way covers on all three axes
- Tool box & tools
- Coolant system
- Central lubrication system
- Built-in Quartz work light
- **Portable hand wheel (opt)**



Available with or without Automatic tool changer or Full enclosure.

Specification

| | |
|---|---------------------------|
| Table: | 16.5" x 63" (420x1600 mm) |
| Longitudinal travel: | 51" (1300 mm) |
| Cross travel: | 24.5" (630 mm) |
| Vertical travel: | 24" (610 mm) |
| Spindle nose to table top (D):..... | 5" to 30" (120-750 mm) |
| Load capacity: | 2000 lbs (980 kgs) |
| Spindle taper:..... | NMTB40 or CAT40 |
| Spindle speed: | 60 to 8000 rpm |
| Transmission of spindle & motor:..... | Belts |
| Spindle center to column front surface: | 25.5" (660 mm) |

Feed Rate

| | |
|--------------------------|-------------------|
| Rapid feed rate: | X/Y/Z: 250 ipm AC |
| Cutting feed rate: | 1 to 120 ipm |

Motor

| | |
|---------------------------|------------------------------------|
| Spindle motor: | 10 HP / 7.5 kW |
| Feed motors on XYZ: | 2 kW - AC Servo |
| Coolant pump:..... | 1/8 Hp |
| Lubrication pump:..... | 150 W |
| Power requirement: | 15 KVA, 3 Phase 208V to 230V (Max) |

Automatic Tool Changer

| | |
|-------------------------|----------------|
| No. of tools: | OPT |
| Max tool diameter:..... | 3.5" (90 mm) |
| Max tool weight:..... | 15 lbs (7 kgs) |

Machines in Motion, Inc. Domestic machinery sales.

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<http://cncmachinesinmotion.com>



Dimension & Weight

Length x Width x Height:..... 165" x 84" x 105"
 (4190x2130x2670 mm)
 Net weight: 8360 lbs (3800 kgs)

| Model | Spindle | Travel X/Y/Z | CNC System | Spindle Motor | Axes Motor | FOB CA |
|--------|---------|--------------|------------|---------------|------------|-----------------|
| BM560H | CAT40 | 51/24.5/24" | M400 | 7.5kW(10HP) | 2kW-AC | \$62,300 |

Standard Accessories

| | | |
|------------------|------------------------|---------------------------------------|
| Tools & box | Leveling bolts & plate | RS-232 interface |
| Operation manual | 15" color LCD | Splash guard |
| Auto lube system | Halogen work light | 120 GB solid state hard drive |
| USB 2.0 port | Coolant system | Shop floor programming/Conversational |

Optional Machine Accessories

| | | |
|-------------|---------------------------------------|---------|
| CK-105 | 52pcs Clamping Kit | \$220 |
| CP-MIST | Mist Coolant System | \$715 |
| UP-15H | Upgrade spindle motor to 15 Hp | \$2,200 |
| ENCLOSURE | Full Enclosure | \$6,000 |
| SEMI-ENCLOU | Semi Enclosure | \$4,500 |
| CHIP | Chip Auger | \$5,600 |
| 16ATC | 16 T magazine Umbrella with software | \$5,600 |
| C40RK-45 | Retention Knob Cat40, 45degree 20pcs | \$240 |
| TG-CNC | Table Guard | \$1,170 |
| TRAN-17 | Transformer: 28KVA (440~480V) | \$2,600 |
| WISE-6 | 6" Angle Vise W/ Swivel Base (Import) | \$360 |

Optional Software Accessories

| | | |
|--------------------------------------|--|---------|
| 10620 | Compression tapping | Free |
| 10610 | User definable Macros and sub programs [M98 & G65] | Free |
| 10851 | Cutter compensation | Free |
| 10360 | 4th axis software | Free |
| 10630 | Unlimited part program size | \$550 |
| 10730 | Intercon off-line conversational program (for your desktop PC) | \$275 |
| 10810 | Rigid tapping [G74 & G 84] (includes 10620) | \$550 |
| 10850 | Coordinate system rotation (CSR) | \$220 |
| 10625 | Scaling and mirroring [G50 & G51] | \$220 |
| 10814 | DXF in, CAD drawing input software | \$305 |
| 10660 | BCD tool change output | \$280 |
| 10740 | Engraving software | \$500 |
| <u>Digitizing & Probing</u> | | |
| 10405 | DP-4 probing package w/ CSR (10850) | \$1,590 |
| 12486 | DP-7 probing package w/ CSR (10850) | \$4,200 |
| 10770 | 2D & 3D digitizing software (requires 10405) | \$3,350 |
| 10220 | TT-1; Tool touch off kit | \$649 |
| 12468 | TT-2; Tool touch off kit | \$1,295 |
| 10772 | Tool room package (10405 & 10220 & 10600 work coordinate) | \$2,239 |
| <u>Manual Pulse Generators (MPG)</u> | | |
| 11069 | 100 Step MPG | \$495 |



Additional Accessories Information

Power requirement: 20 KVA 3 phase 208V to 230V (Max)
Air requirement: With opt. power draw bar 90 - 100 psi
Type of oil for way oil / oil chiller / pneumatic oil: Mobil Vectra #2/ Shell Tellus 32/ Air tool oil
Coolant capacity: 7 Gallons

Terms & Conditions

F.O.B.: Pomona, CA 91768
Delivery: Please check with Machines in Motion, Inc. Sales Team
Standard Terms Of Payment: 20% down-payment, balanced due on machine delivery
Validity: This proposal is valid for 30 days.
Training: \$850/Day plus travel expense. (U.S.A only). One day is included for Machines in Motion customers.
Warranty: One-year limited warranty for any defects in material or workmanship of machine tool and factory installed components. Visit www.atrump.com/policy for full warranty details & contract.
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Machines in Motion, Inc.

Our primary focus is the installation of new Centroid CNC controls on to experienced CNC machine tools. This puts us in contact with many customers weighing the pros and cons of a CNC control upgrade against the cost of a new CNC mill. We sell and fully support the Atrump line of CNC mills built with the Centroid CNC controller.

Because Machines in Motion, Inc. is not a traditional *hard sell* machinery dealer you won't see a lot of fancy web pages, videos, or in your face advertising. We like our customers! We work hard to provide you with the right machine to fit your business needs.

Atrump machines are built with classic box way construction. A well proven technology using hand scraped – Turcite sliding surfaces, High pressure lube systems, and digital AC Brushless servo motors & drives. Couple these features with the simple to use Centroid CNC controller and you too will see a noticeable improvement in shop productivity.

Visit one of our other web sites.

Centroid users club: <http://www.centroidusersclub.com/> where we answer your questions to the benefit of all Centroid control users.

Control retrofit site: <http://cnc-machine-controls.com/> Information about upgrading your existing CNC machine with the professional level Centroid CNC control.

New CNC Mills site: <http://cncmachinesinmotion.com/> Information about new CNC milling machines with the professional level Centroid CNC control.

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