



**GANESH  
MACHINERY**  
*The Edge in Cutting.*

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## **GANESH GBM-2616 CNC Bed Mill** **With Class-7 Super-Precision Spindle Bearings and Box Ways**



- **Axis Travels - X 26", Y 16", Z 17"**
- **12" x 48" Table**
- **CAT #40 Spindle (BT#40 Available)**
- **4,000 RPM Spindle Speeds**
- **Production-Style Retention-Knob Drawbar – No Noisy Air-Motor!**
- **Box Ways in Y & Z Axis**
- **Front Wrap-Around Table Guard (not shown above)**
- **Coolant & Chip Tray**

**COMBINING STRENGTH & ACCURACY FOR HIGH-PRODUCTIVITY**

# **STANDARD GBM-2616 BED MILL FEATURES**

## **Massive Cast Iron Box Way Construction –**

The GBM-2616 machine casting was CAD designed using FEA (Finite Element Analysis). Strategically place heavy cast ribs reinforce the internal structure to intensify rigidity. **The heavy-duty casting and the box way design dampens vibration for superior machining capability for enhanced tool life and fine surface finishes.** Slide ways are coated with Turcite®-B antifriction material to minimize stick/slip characteristics and to ensure long-term accuracy under demanding cutting conditions. The machine is constructed of all certified premium Meehanite® castings for optimal strength and rigidity.

## **Slide Ways –**

- Hardened and Ground oversized Column mounted box ways for the Vertical Slide way
- Hardened and Ground extra wide Saddle box ways for the cross axis
- Hardened and Ground longitudinal dovetail ways for the table axis
- Turcite® Type-B *Red-Furon* Coated ways on all axis minimize stick/slip & improve accuracy
- Precision C3-grade preloaded double-nut ballscrews in all 3-axis
- Y & Z axis way covers included for added safety and protection of the machine

## **Spindle –**

- CAT- 40 or BT- 40 taper spindle for maximum rigidity
- 4,000 RPM Spindle w/ an AC Inverter Spindle Head
- Matched pair of Fafnir® ABEC Class-7 *Super-Precision* P4 spindle bearings (Made in England)
- Spindle runout within a maximum of 0.00004”

## **Tooling -**

- CAT#40 tooling standard, with BT-40 option available
- Push-Button retention-knob style power tool changer drawbar. “No noisy air motor!”

## **Features -**

- Automatic Metered Lubrication for slideways and ballscrews
- Built-in coolant pump with chip & coolant collector tray
- Built-in coolant system features 3-coolant lines with separate flow control valves
- Built-in leveling ledge allows for easy leveling of the machine low to the floor
- Water resistant 70-watt adjustable halogen work lamp is included
- Inspection Report on accuracy, Instruction Manual, Tools and Tool Box all included

**BE EFFICIENT! BE PRODUCTIVE! BE PROFITABLE!**

# **GANESH GBM-2616 CNC BED MILL MACHINE SPECIFICATIONS**

## **Axis Travels:**

• Table Travel (X-Axis)	25.78"	655 mm
• Cross Travel (Y-Axis)	15.74"	400 mm
• Vertical Head Travel (Z-Axis)	16.92"	430 mm
• Spindle Nose to top of table	3.74 – 20.67	95 – 525mm
• Spindle Centerline to front way cover	17" throat clearance	

## **Axis Feedrates:**

• Rapid Feedrate	394 ipm	10,000 mm/min
• Cutting Feedrate	196 ipm	5,000 mm/min
• Axis Servo Motors, X,Y,& Z	1.34-HP	1 KW

## **Spindle:**

• Spindle Motor	10-HP Peak, 7.5-HP 30-minute duty-rated
• Spindle RPM (Spindle Inverter Drive)	60 - 4,000 RPM
• Spindle Size	40-taper CAT (BT40 Available)
• Spindle Tool Retention	Air Powered retention-Knob style Drawbar

## **Milling Table:**

• Table Size	12" X 48"	305 mm X 1,220 mm
• Table Slots	16 mm ground table slot width	
• Table Load Capacity	660 pounds	300
	(Table load capacity is higher if weight is evenly distributed)	
• Spindle Nose to table top	3.74" – 20.67"	95 – 525mm

## **Way Surface Type:**

• Box Ways – Table (X-Axis)	Hardened & ground dovetailed ways
• Box Ways – Cross slide (Y-axis)	Hardened & ground box ways
• Box Ways – Vertical column (Z-Axis)	Hardened & ground box ways

## **Accuracy:**

• Positioning Repeatability	±0.0002"	0.005 mm
• Positioning Accuracy	±0.0004"	0.01 mm

## **Dimensions:**

• Floor Space Required ( W x D x H)	84" x 76" x 104"	2135 x 1930 x 2642mm
• Shipping Dimensions (W x D x H)	84" x 90" x 110"	2135 x 2286 x 2769mm
• Machine Weight	4510 lbs.	1950 kgs
• Coolant Capacity	5-Gallons	
• Power Requirements	220 vac ±5%, 50 Amps	

**The Ganesh GBM - 2616 is manufactured in our  
Certified ISO 9001 Production Facility in TAIWAN.**

## Rotary Options

Expand your machine capability to another dimension.

Our 4-axis CNC can eliminate 2-setups by allowing you to machine 3-sides in one operation.

Complicated 4-axis parts can be machined in just one set-up.

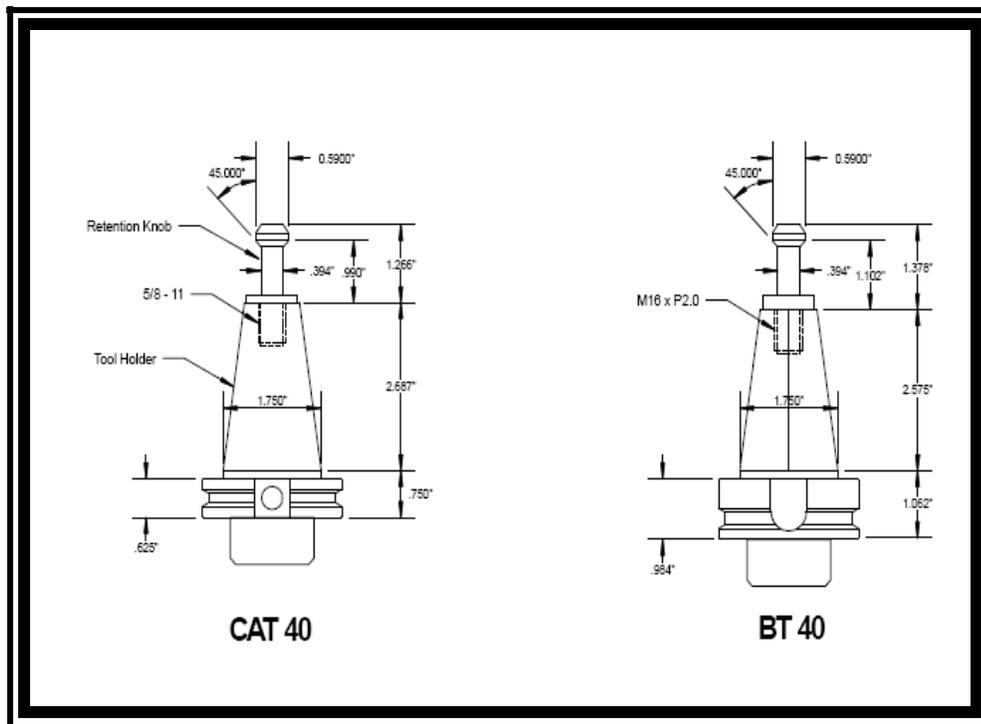
5C Indexer, M-Code Servo Control, 0.001° increments, 110mm center height  
4<sup>th</sup> axis 5C indexer (true 4<sup>th</sup> axis with 0.001° resolution for milling while in rotation)  
(also available in 2, 3, and 4 indexer units for high volume production)



*The value approach to rotary axis capability.*

Includes 4<sup>th</sup> axis wiring preparation & VRNC-210 4<sup>th</sup> - Axis CNC rotary table with the following features:

- worktable diameter ..... 8.26" ..... 210mm
- center height ..... 6.30" ..... 160mm
- Ø center bore ..... Ø 45mm H7
- work load capacity ..... 165 lbs ..... 75 kg
- minimum input increment ... 0.001°
- table rotational speed ..... 44 rpm



**YOUR CHOICE OF CAT-40 or BT-40 TAPER TOOL HOLDERS**

# FAGOR 8055MC CNC CONTROLLER – 4<sup>th</sup> AXIS CAPABLE

The Fagor 8055 MC Control System is perhaps the most versatile CNC in existence due to its Dual Operating System. In one mode, it is a very powerful ISO G-code control System and, in the other mode, it features **Icon conversational programming with highly interactive graphics**, which make even complex tasks easy to program - **regardless of the operators experience level**.

No prior CNC programming knowledge is required to operate this control.



## **Fagor CNC 8055 MC Control System**

- **Icon Conversational Programming – 26 High-Performance Canned Cycles**  
Rectangular Boss cycle, Round Boss cycle, Rectangular Pocket cycle, Circular Pocket cycles, Profile Pocket 2D & 3D cycles, Slot Milling, Profile Milling, Multiple Drilling cycles, Boring cycles, Reaming cycles, Arc bolt hole cycles, Random position cycles, Grid Pattern position cycles.
- 4-axis CNC + spindle all under full CNC control
- 4-axis simultaneous interpolation with full Linear, Circular and **Helical Interpolation**
- Fagor Intelligent Profile Editor (**mini CAD/CAM**)
- Tool Radius, Tool Length, Tool Wear compensation, 255-sets
- Simulation mode, dry run mode, and Solid 3D Graphics Display with zoom feature
- 10.4" High Resolution LCD color monitor
- Jog Mode & MDI Mode
- Tool offset and Work Coordinate Zero offset tables
- G-code Programming and Editing (on-line with interactive editor), plus M-codes
- WIN DNC offline software program
- Ballscrew pitch & backlash compensation
- Tele-diagnosis: Remote Instant Service capability through modem. (optional)
- Front-mounted USB port for program transfer (standard), Ethernet TCP/IP (optional)

**Prices and specifications subject to change without prior notice.**