



**GMV-3F**  
**MACHINE QUOTATION**

# GMV-3F (10"X 54") Precision Milling Machine

## STANDARD MACHINE FEATURES:

### Machine Construction:

- Meehanite Castings, fine grain and high-density cast iron using the superior Meehanite process yields superior vibration dampening and improved surface finish and tool life

### Bed ways:

- Hardened and Ground Square Box Way on Y & Z-Axes
- Z-axis box way designed for heavy-duty machining
- Turcite-B Premium Coated way surfaces in the X & Y-Axes
- Hardened and Ground Machine Table Surface for wear resistance

### Spindle:

- 3-HP Spindle Motor for superior metal removal capability
- Spindle made from one-piece Ni-Cr alloy steel
- Spindle supported by two precision angular contact and one ball bearing to ensure rigidity
- ABEC Class-7 matched Precision spindle bearings
- Hardened, ground and polished precision Back Gear for quiet spindle operation
- Forward/ Reverse switch housed in an oil-tight switch box
- Rigid head tilting system

### Quill:

- Power quill feed with 3-feeds and adjustable feed stop with automatic feed trip release
- Hardened and Ground Quill – **Hard chrome plated & lapped** for a long service life
- Quill inner taper hardened & precision ground to less than 0.00008" (0.002mm)
- Quill Assembly Total Runout – less than 0.0002"
- Quill return spring

### Machine Features:

- Adjustable inch calibrated scale rings in all axes
- Multiple knee and table locks for superior rigidity
- T-slots ground to 5/8" to fit standard workholding nuts
- One-Shot machine lubrication for slideways and lead screws
- Cross way cover included for added protection of machine ways
- Water resistant halogen lamp is included
- Inspection Report on accuracy, Instruction Manual, Tools and Tool Box all included
- Large compliment of parts and accessories in stock to ensure continued operation

**THE BEST MILLS IN THE INDUSTRY!  
BACKED BY A FULL-SATISFACTION GUARANTEE**

## **STANDARD GMV-3F MACHINE SPECIFICATIONS:**

### **TABLE –**

<b>Table Size:</b>	10" X 54" (254 mm X 1,372 mm)
<b>T-slot width</b> (3 Ground T-Slots on 2.5" centers)	5/8" (15.9 mm wide)
<b>Table Height - surface to floor adjustment</b>	37.4" – 52.8" (950-1,340 mm)
<b>Table Load Maximum</b> – for rated accuracy	440 pounds (200 Kg)
<b>Table Load Capacity</b> (Evenly Distributed)	950 pounds (430 Kg)
<b>Table Load Capacity</b> (Edge of Table)	400 pounds (181 Kg)

### **MACHINE TRAVELS & CAPACITY –**

<b>X - Table Travel</b> / (With optional Power Feed)	35" (889 mm) / 30.3" (770 mm)
<b>Y - Cross Travel</b>	17.5" (444.5 mm)
<b>Z - Knee Travel</b>	15.05" (382.27 mm)
<b>Ram Travel</b> (Overarm) / Swivel	18.5" (470 mm) / 360°
<b>Spindle Nose-to-Table Surface Travel</b>	5.3" – 20.7" (135 – 525 mm)
<b>Leadscrew ground pitch (X &amp; Y)</b>	0.2" per rev. (ballscrews optional)
<b>Scale ring resolution in inches</b>	0.001" (5 mm) (with adjustable zero position)
<b>Ways</b> – Hardened & Ground	Dovetail Ways in X axis Square Boxway in Y and Z axis

### **SPINDLE HEAD –**

<b>Spindle Motor</b>	Twin Swivel – Forward-Back & Left-Right
<b>Spindle Taper</b> – Hardened & Ground	3-HP, 3-Phase 220 vac (440 vac optional)
<b>Spindle Runout</b>	R-8
<b>Spindle Bearings</b>	0.0002" maximum runout (0.005 mm) ABEC-7 matched set Class-7 bearings
<b>Variable Speed Drive</b> - Dual Range	60 - 500 rpm (low-range) / 500 - 4500 rpm (high-range)
<b>Head tilt</b> (Left-to-Right)	90 – 0 – 90 degrees
<b>Head tilt</b> (Front-to-Back / Up-Down)	45 – 0 – 38 degrees
<b>Head Swivel</b>	360 degrees

### **Quill –**

<b>Quill Diameter</b>	3-3/8" (85.725 mm)
<b>Quill Travel Z<sup>2</sup></b> – Manual & Power Feed	5" (127 mm)
<b>Quill feeds</b> – With Trip Release - Inch	0.0015", 0.003", 0.006"
<b>Quill feeds</b> – With Trip Release - Metric	0.04 mm, 0.08 mm, 0.16 mm

### **DIMENSIONS & WEIGHT –**

<b>Power Requirements - 3-Phase Power</b>	220 vac, 15 amps (440 vac optional)
<b>Machine Weight</b>	2,750 lbs. (1250 Kgs)
<b>Machine Dimensions LxWxH</b>	65" x 66" x 87"

**Note: Machine is wired standard at 220V 3 phase. For 440V, machine needs to be ordered from Factory wired at 440 V. Otherwise, transformer is required.**

**- ONE FULL YEAR WARRANTY PROVIDED –**

**- Specifications and pricing subject to change without prior notice –**

# GMV-3F MACHINE:

**\$13,990.00**

**DELUXE ACCESSORY PACKAGE INCLUDED WITH EACH MACHINE**

Cross Axis Way Cover
One-Shot Lubrication System
Halogen Work Light

## SPECIAL PACKAGE SAVINGS:

### **PACKAGE #1**

**\$16,490.00**

NEWALL 3-axis Digital Readout  
Hi-Torque X-axis (table) powerfeed (Max Torque 650 in/lb).

### **PACKAGE #2**

**\$17,990.00**

NEWALL 3-axis Digital Readout  
Hi-Torque X-axis (table) powerfeed (Max Torque 650 in/lb).  
Y-axis (cross) powerfeed, Z-axis (knee) powerfeed,  
Air-Power Drawbar w/ safety shut-off

## Machine Options

- Factory machine installation:  
“Peace-of-Mind Factory Installation” – includes expenses \$2,995.00
- Newall 2-Axis Digital Readout installed \$2,695.00
- Newall 3-Axis Digital Readout (3<sup>rd</sup> axis is on the quill) installed \$3,495.00
- Automatic Lubrication system installed \$495.00
- 4” Riser installed on your machine \$750.00
- 6” Riser installed on your machine \$995.00
- Wiring to 440 volts Net Price (only on Standard NON-DVS) \$395.00
- Hi-Torque Longitudinal Powerfeed - installed \$695.00
- Hi-Torque Cross Powerfeed - installed \$795.00
- Hi-Torque Knee Powerfeed - installed \$895.00
- PowerPac Air Power Drawbar - installed \$1,295.00
- Upgrade to DVS (Digital Variable Speed) \$1,295.00

**A large compliment of spare parts is in stock at our facility in Chatsworth to ensure your continued operation.**

**Ganesh machines are manufactured in  
Our Certified ISO 9001 Factory in TAIWAN.**

## GMV-3F DVS Digital Variable Speed



**Note: Machine is wired standard at 220V 3 phase. For 440V, machine needs to be ordered from Factory wired at 440 V. Otherwise, transformer is required.**

## **Terms of Sale**

**Warranty** – 1 full year parts warranty on the machine. Labor warranty will be provided by your local servicing distributor.

**Parts**– Spare parts are available at our facility in Chatsworth to support your continued machine operation.

**F.O.B. Point** – Machines ship F.O.B. from Chatsworth, CA 91311.

**Payment Terms** – 30% down payment with your Purchase Order secures the machine. 60% is due prior to machine shipment, and the 10% balance is due net-30 days after installation or the machine can be financed with our approved lender. Leases with \$1.00 buyout are available upon approved credit.

**Purchase is governed by the Expand Machinery terms and conditions of sale.**

**UL & TÜV ELECTRICAL APPROVAL IS AN AVAILABLE OPTION**

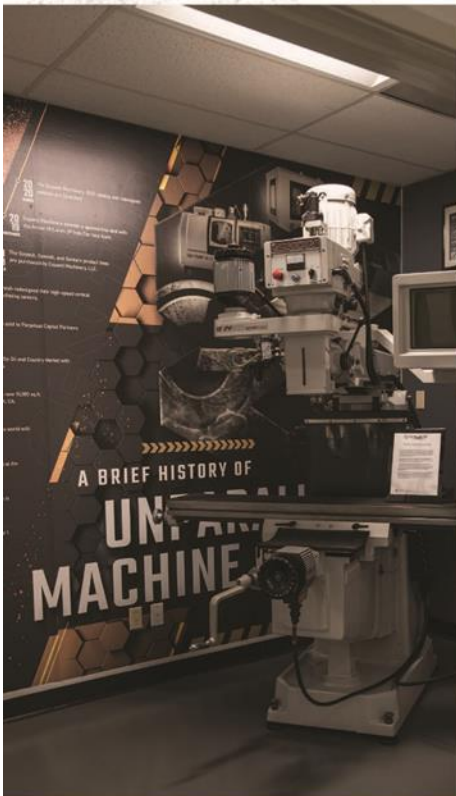
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## SHOWROOM

4,000 SQ. FT. Showroom



## COMPANY HISTORY ROOM

Learn more about 30+ years of history



## ROTARY TABLES & TRUNNIONS

Demo and Training Center



## ROBOTICS TRAINING CENTER

Robot Demo and Training Center



## SIMULATION ROOM

Learn How to Use Our Machines



## PRODUCTION AREA

Complete Testing on all Machines



## PARTS ROOM

Thousands of Spare Parts in stock



## SPONSORSHIPS

Arrow McLaren IndyCar Team