



GMV-205F
MACHINE QUOTATION

GMV-205F

Servo Controlled Mill

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 dual square box ways on column & knee
- Turcite-B Premium coated box way surfaces
- Hardened and ground machine table surface for wear resistance

Spindle:

- 5-HP spindle motor with LED spindle speed readout
- #40 NST spindle (same as NMTB 40)
- Spindle made from one-piece Ni-Cr alloy steel

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:

- Digital Readout Position Display in X & Y axis
- X & Y Programable position movement for drilling positions, surfacing, & pocket milling
- Ballscrews (class C5) in X & Y axis and servo controlled movement
- Z-axis uses manual feed or 1 of 3 power feeds with automatic feed stop
- Cross feed ballscrew is centered in the middle of the knee for accurate tracking
- Digital Touch Panel and LED spindle speed display
- Cross way cover included for added protection of machine ways
- Power knee with double box ways and powered elevation control
- Adjustable 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
- Automatic pressurized lubrication for slideways and ballscrews
- Water resistant high-intensity LED work lamp is included
- Instruction and Parts Manuals and hand tools included

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



Digital Control Touch Panel shown in surface milling mode.

- X & Y axes are programable, Z uses manual or 1 of 3 power feeds
- 7" Touch Panel displays X & Y axis positions
- Automatic canned drilling pattern in X & Y axis w/ 100 variables
- Automatic surface milling from entered target positioning data
- Automatic pocket milling from entered target positioning data

Touchscreen Display Control Switch Explanation

Touchscreen, Coolant On/Off, Horizontal Spindle On/Off, CW/CCW Power On, Mode Select: Hand, Drill, Pocket & Surface Mill, Emergency Stop, Axis Jog, Feedrate, Spindle Speed, Table Elevation Cycle Start, Reset, X-axis brake, Y-axis brake, Rapid, Spindle On, CW/CCW

STANDARD GMV-205F MACHINE SPECIFICATIONS:

TABLE –

| | |
|--|------------------------------------|
| Table Size (Hardened & Ground) | 11.8" X 51.18" (300 mm X 1,300 mm) |
| T-slot width (3 Ground T-Slots on 2.5" centers) | 5/8" (15.875 mm) |
| Table Load Maximum – for rated accuracy | 440 pounds (200 Kg) |
| Table Height – Surface to floor measurement | 36.8"- 54.9" (435-1,395 mm) |

MACHINE TRAVELS & CAPACITY –

| | |
|--|---|
| X - Table Travel | 32" (815 mm) |
| Y - Cross Travel | 15" (380 mm) |
| Z - Knee Travel | 18" (460 mm) |
| Z²- Quill Travel – Manual & Power Feed | 5" (127 mm) |
| Quill feeds – With Trip Release | 0.00015", 0.0003", 0.0006" (0.004 mm, 0.008 mm, 0.016 mm) |
| Spindle Nose to Table Travel | 1.5" – 19.6" (40 – 500 mm) |
| Spindle Nose to Column Travel | 14" – 32.5" (355 – 825 mm) |
| Head Overarm Ram Travel | 18.5" (470 mm) |
| Scale ring resolution in inches | 0.001" (5 mm) (with adjustable zero position) |
| Ways – Hardened & Ground | Square Box Ways in Y & Z-axes |

SPINDLE –

| | |
|--|--|
| Spindle Motor | 5.0-HP, 3-Phase 220 vac (440 Vac optional) |
| Spindle Taper – Hardened & Ground | # 40 NST (NMTB) |
| Spindle Runout | 0.0002" maximum runout (0.005 mm) |
| Spindle Bearings | ABEC-7 matched set Class-7 bearings |
| Variable Speed Spindle Drive | 90 – 3,500 rpm |
| Quill Diameter | 3-3/8" (85.725 mm) |
| Head Tilt (Left-to-Right) | 90 – 0 – 90 degrees |
| Head Swivel | 360-degrees |

DIMENSIONS & WEIGHT –

| | |
|---|-----------------------------------|
| Power Requirements - 3-Phase Power | 220 vac, 7-KVA (440 vac optional) |
| Machine Weight | 3,960 lbs. (1,800 Kgs) |
| Machine Dimensions D xW xH | 68" x 85" x 99" |
| Shipping Dimensions D xW x H | 72" x 58" x 88" |

- ONE FULL YEAR WARRANTY PROVIDED –

- Specifications and pricing subject to change without prior notice –

**The GMV-205F is manufactured in our
Certified ISO 9001 Production Facility in TAIWAN.**

GMV-205F SERVO MILL: \$34,990.00

DELUXE ACCESSORY PACKAGE INCLUDED WITH EACH MACHINE A \$8,060.00 VALUE

| |
|---|
| Cross Axis Way Cover |
| Automatic Lubrication System |
| LED Work Light |
| Flood Coolant System |
| Metal Coolant Splash Pan |
| Power Drawbar |
| Ballscrews in X & Y Axis |
| AC Servo Motor Drive in X & Y Axis |
| Digital Touch Panel & Readout |
| Overarm Milling Arbor |

OPTIONS:

- Factory machine installation:
 "Peace-of-Mind Factory Installation" – includes expenses \$2,995.00
- Tapping attachment \$315.00
- 5" Riser installed on your machine \$650.00
- Wiring to 440 volts (Net Price) \$395.00
- Horizontal spindle – includes the following: \$5,995.00
 - Spindle Motor - 5.0 HP
 - Spindle Speed - 55 – 1,180 RPM in 6-steps
 - Spindle Taper - #40 NST (NMTB)
 - Spindle Centerline to overarm - 5.7" (146 mm)
 - Spindle Centerline to table - -1.0" – 16.1" (-25 – 410 mm)
 - Spindle Centerline to column surface - 1.1" (28 mm)
 - Horizontal Milling Arbor set - 50 mm bore

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

Prices and specifications subject to change without prior notice.