

Product Brochure



All Geared & Hydraulic Vertical Milling Machines



MILLING MACHINES
Powerful & Affordable

www.bhambar.in



QR Code

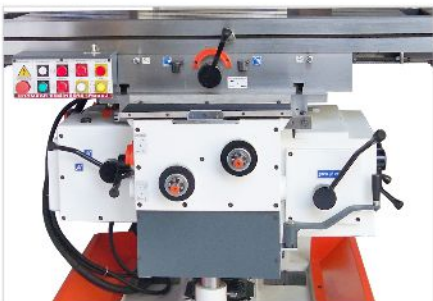
ISO 9001 CERTIFIED



Robust Headstock
Head Swivel $\pm 90^\circ$ both side



Efficient Cutting Capacity



Distress Free Rapid - Feed
Mechanism in XYZ Axis



BHAMBAR ENGINEERS (Regd.)

we have no branches or sister concern



Single Feed Auto Hydraulic Milling Machine for High-Production

SALIENT FEATURES

- » High rigidity of structure and drives.
- » Convenient Design.
- » Separate drive for the spindle and the table movements.
- » Single lever control of feeds & rapid traverse.
- » Wide range of spindle speeds & feeds with high upper limits.
- » Casting is high tensile strength, graded & superior quality.
- » High rates of rapid table traverse while the spindle is running or at rest.
- » Large longitudinal & traverse movements of table.
- » Long lasting interchangeable spare parts.

SPECIFICATION CHART FOR HYDRAULIC FEED MILLING MACHINES(in mm)

| Machine Type | VERTICAL MILLING MACHINE | |
|--------------------------------|--------------------------|--------------------|
| | MODEL | VM-500 |
| Table Size | 1100 X 300 | 1300 X 300 |
| T-Slots/ Width/ C.D. | 3/17/65 | 3/17/65 |
| X-Traverse (Longitudinal) | 500 (Hyd.) | 650 (Hyd.) |
| Y-Traverse (Cross Traverse) | 200 (Manual) | 240 (Manual) |
| Z-Traverse (Vertical Traverse) | 300 | 350 |
| Table Loading Capacity | 200 Kgms. | 350 Kgms. |
| Spindle Taper Standard | ISO 40 | ISO 40 |
| Spindle Speeds & Range | (45-1100 RPM's) | 9 (45-1100 RPM's) |
| Quill Travel | 90mm | 90mm |
| Feed Range | Hydraulic Variable | Hydraulic Variable |
| Rapid | Quick | Quick |
| Milling Spindle Motor | 2 HP (960 RPM's) | 3 HP (960 RPM's) |
| Hydraulic Power Pack Motor | 2 HP (1440 RPM's) | 2 HP (1440 RPM's) |
| Coolant System, if Required | 0.1 HP | 0.1 HP |
| Approx. Weight (kgms) | 1950 | 2250 |

☞ 3 H.P. Power Pack / Oil Cooler is Optional (Extra)

BHAMBAR Vertical Milling Machines are heavy metal removal machines. It is used for surface facing operations of any components with facing cutter. The construction of Vertical Milling machine is very rigid to keep in view of rough & tough working conditions. The head can swivel both sides 90 degrees. The all geared vertical milling machine have XYZ axis auto feeds & Rapids. These machines are normally used in tool rooms of Forging industry, Auto Parts Industry, Defence workshops, Engineering Colleges, hand tools industries etc. The hydraulic feed vertical milling machine is used to do mass production & its results are better than conventional gearbox type and manual milling machines. The BHAMBAR Brand has its speciality & long term experience to manufacture accurate & quality milling machines from past 5 decades. We always welcome the personalities who are interested to procure a quality at reasonable prices.

SPECIFICATIONS FOR ALL GEARED X-Y-Z AXIS AUTO FEED N RAPID VERTICAL MILLING MACHINES

| MODEL | VM1B | VM2 B | VM3 B | VM4 B | VM5 B | VM6 B | VM7 B |
|-----------------------------------|----------|----------|----------|--------------------------|----------------------------|--------------------------|----------|
| TABLE | | | | | | | |
| Working Surface | 1200x300 | 1350x300 | 1450x350 | 1650x360 | 1900x400 | 2100x450 | 2300x500 |
| Swivel | ±45° | ±45° | ±45° | ±45° | Fix | Fix | Fix |
| T-Slot Nos. /Size | 3/17 | 3/17 | 3/17 | 3/17 | 3/17 | 5/20 | 5/20 |
| T-Slot Centre | 70 | 70 | 80 | 90 | 100 | 90 | 95 |
| Table Loading Capacity (Kgms) | 200 | 300 | 500 | 800 | 1100 | 1600 | 2500 |
| X-Longitudinal Travel | 550 | 700 | 800 | 900 | 1100 | 1200 | 1300 |
| Y-Cross Travel | 180 | 220 | 265 | 325 | 400 | 450 | 550 |
| Z-Vertical Travel | 300 | 410 | 475 | 525 | 575 | 625 | 700 |
| FEEDS | | | | | | | |
| No. of Rapid Feeds | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| No. of Feeds | 9 | 18 | 18 | 18 | 18 | 18 | 18 |
| X-Y Rapid Feeds/min. | 800 | 735-1065 | 735-1065 | 735-1065 | 735-1065 | 735-1065 | 500-735 |
| Z-Rapid Feed/min. | 250 | 250-350 | 250-350 | 250-350 | 200-350 | 200-350 | 165-250 |
| Range of X-Y s Feeds/min. | 18,250 | 13,305 | 13,305 | 13,305 | 13,305 | 13,305 | 13,305 |
| Range of Z Feeds/min. | 6 to 75 | 4 to 90 | 4 to 90 | 4 to 90 | 4 to 90 | 4 to 90 | 4 to 90 |
| SPINDLE | | | | | | | |
| Spindle Taper | ISO 40 | ISO 40 | ISO 40 | ISO 40 | ISO 40 | ISO 50 | ISO 50 |
| No. of Spindle Speeds | 9 or 12 | 9 or 12 | 9 or 12 | 9 or 12 | 9 or 12 | 9 or 12 | 9 or 12 |
| Range of Spindle Speeds (RPM) | 45-1120 | 45-1120 | 45-1120 | 45-1120 | 45-1120 | 45-1120 | 45-1120 |
| Distance from Spindle to Table | 325 | 415 | 475 | 525 | 575 | 625 | 700 |
| Distance Spindle Centre to Column | 250 | 300 | 350 | 400 | 500 | 600 | 650 |
| Vertical Head Tilt | ±90° | ±90° | ±90° | ±90° | ±90° | ±90° | ±90° |
| Manual Quill Travel | 95 | 95 | 95 | 95 | 95 | 95 | 100 |
| ELECTRICAL | | | | | | | |
| Main Motor | 3HP | 3HP | 5HP | 5HP _(960 RPM) | 7.5HP _(960 RPM) | 10HP | 10HP |
| Feed Motor | 1.5HP | 2HP | 2HP | 2HP | 2HP _(960 RPM) | 3HP _(960 RPM) | 3HP |
| Coolant Pump (Optional) | 0.1HP | 0.1HP | 0.1HP | 0.1HP | 0.1HP | 0.1HP | 0.1HP |
| DIMENSIONS (APPROX.) | | | | | | | |
| Overall Length | 1700 | 1850 | 2000 | 2100 | 2500 | 2700 | 2800 |
| Width | 1500 | 1600 | 1750 | 1950 | 2500 | 2600 | 2700 |
| Height | 1800 | 2080 | 2200 | 2300 | 2400 | 2700 | 2800 |
| Net Weight | 1800 | 2800 | 3400 | 3800 | 4500 | 5500 | 7000 |
| Gross Weight | 2200 | 3200 | 3900 | 4300 | 5000 | 6100 | 8200 |

Note : As per our objective for continual improvements the details in illustrations and specifications are subject to change without prior notice.

User have option to select the spindle speed among 9 or 12 before placing the order

STANDARD ACCESSORIES

Electric Motors
Control Panel
Jack Handle
Draw Bar

OPTIONAL ACCESSORIES

Dividing Head
Rotary Table
Bellows
Coolant Pump
Splash Guard
Machine Lamp
Horizontal Attachment
Milling Machine Vice
Digital Read Out (DRO)
Collet Adaptor & Collets

Digital Read Out



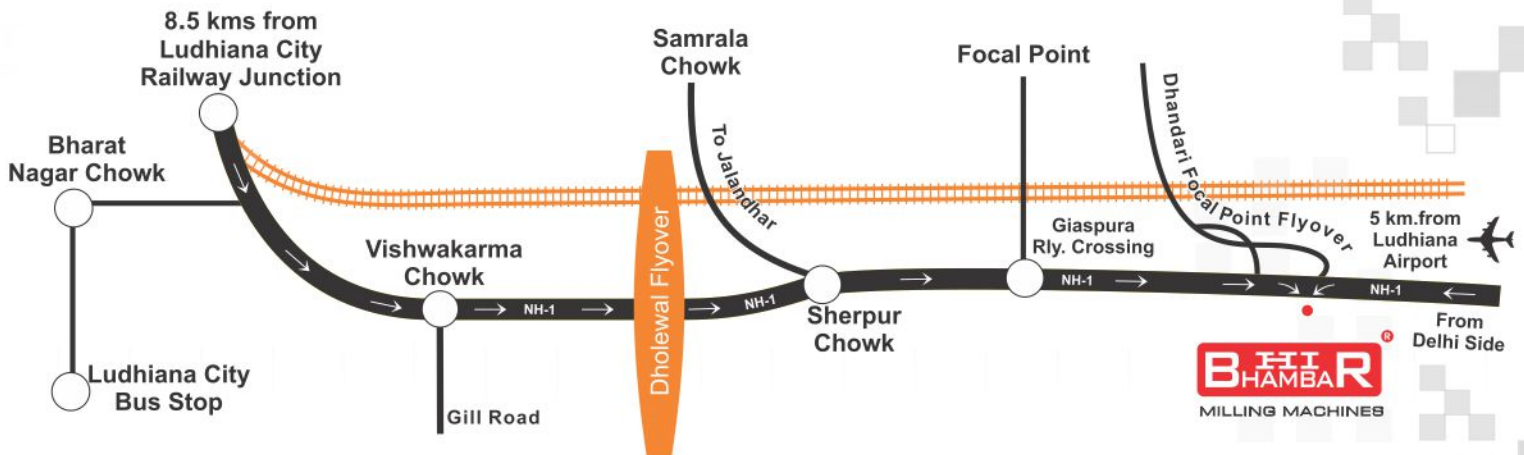
Horizontal Attachment



Company Profile

Bhambar Engineers (Regd.) Is an ISO 9001 certified unit which is taking lead under the dynamic leadership of Mr. Harvinder Singh Bhambar. The unit is known for its best quality milling machines with total customer satisfaction. The company has experience of four decades in manufacturing of All Geared Universal, Vertical, Ram Turret, Hydraulic Type, Duplex Type & other special Purpose Milling Machines with different type of attachments. Our machines are working successfully in Forgings, Plastic Molding, Hand Tools, Pattern Making, Sheet Metal components, Dog Chuck, Auto Parts & other different type units or tool room. We are assuring that HI-BHAMBAR milling machines will provide 100% value for your money.

A SHORT PREVIEW OF OUR FACTORY (INFRASTRUCTURE)



Authorised Sales Agency :

BHAMBAR ENGINEERS (Regd.)

1208, G.T. Road, Dhandari khurd, Ludhiana-141 010 (Punjab) INDIA
Ph : +91-161-2510183 Telefax : +91-161-2510002 Mobile : +91-98141-95888
Email : info@bhambar.in, bhambar@hotmail.com Website : www.bhambar.in