

Product Brochure



# All Geared & Hydraulic Vertical Milling Machines



MILLING MACHINES  
Powerful & Affordable

[www.bhambar.in](http://www.bhambar.in)



QR Code

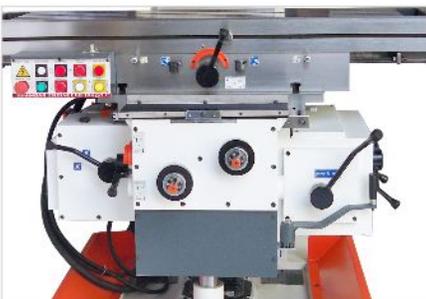
ISO 9001 CERTIFIED



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



### 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

Single Feed Auto Hydraulic Milling Machine for High-Production

**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
<b>TABLE</b>							
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
<b>FEEDS</b>							
No. Of Feeds	9	18	18	18	18	18	18
Range of Longitudinal Feed/min	18-260	18 to 400	18 to 400	18 to 400	18 to 400	18 to 400	18 to 400
Range of Cross Feed / min	18-260	18 to 400	18 to 400	18 to 400	18 to 400	18 to 400	18 to 400
Range of Vertical Feed / min	6-120	3.5 to 90	3.5 to 90	3.5 to 90	3.5 to 90	3.5 to 90	4 to 90
No. Of Rapid Feeds	1	2	2	2	2	2	2
Longitudinal Rapid Feeds / min	900	900,1500	900,1500	900,1500	900,1500	900,1500	700, 900
Cross Rapid Feeds / min	900	900,1500	900,1500	900,1500	900,1500	900,1500	700, 900
Vertical Rapid Feeds / min	310	225, 365	225, 365	225, 365	225, 365	225, 365	165, 250
<b>SPINDLE</b>							
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
<b>ELECTRICAL</b>							
Main Motor	3HP	3HP	5HP	5HP <sub>(960 RPM)</sub>	7.5HP <sub>(960 RPM)</sub>	10HP	10HP
Feed Motor	1.5HP	2HP	2HP	2HP	2HP <sub>(960 RPM)</sub>	3HP <sub>(960 RPM)</sub>	3HP
Coolant Pump (Optional)	0.1HP	0.1HP	0.1HP	0.1HP	0.1HP	0.1HP	0.1HP
<b>DIMENSIONS (APPROX.)</b>							
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

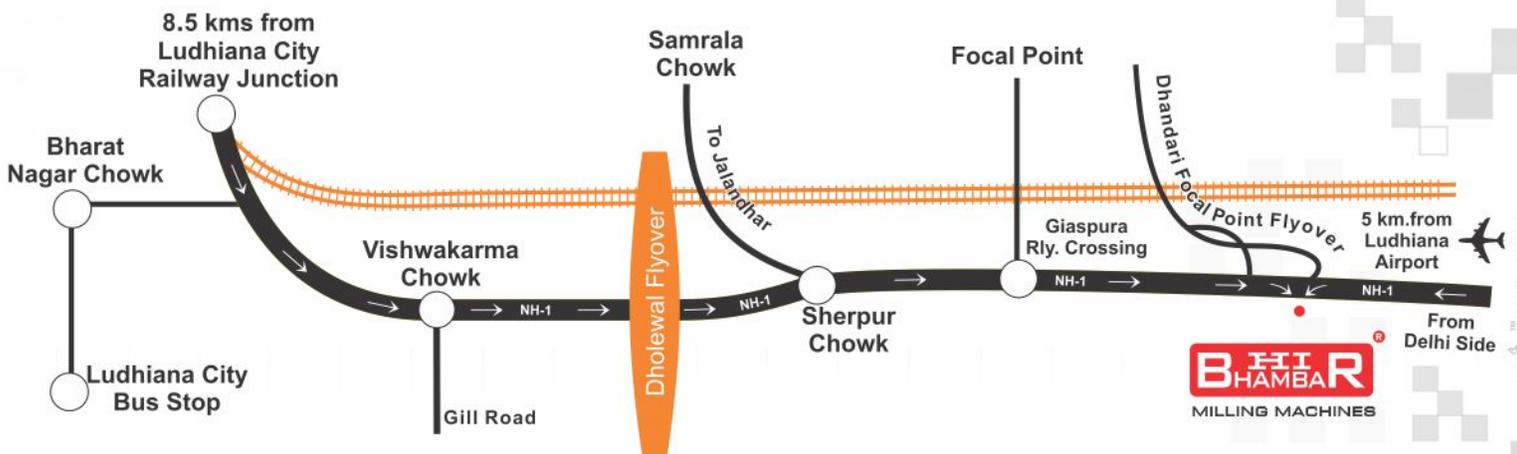
Dividing Head  
Rotary Table  
Bellows  
Coolant Pump  
Splash Guard  
Machine Lamp  
Horizontal Attachment  
Milling Machine Vice  
Digital Read Out (DRO)  
Collet Adaptor & Collets



# 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)



## BHAMBAR ENGINEERS (Regd.)

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