

Product Brochure



All Geared & Hydraulic Universal / Horizontal Milling Machines



MILLING MACHINES
Powerful & Economical

www.bhambar.in



QR Code

ISO 9001 CERTIFIED



Robust Designed Headstock with Rigid Overarm, Arbor & Supports



Vertical Attachment with Hanger & D.R.O.



Efficient Cutting Capacity



Distress Free Rapid - Feed Mechanism in XYZ Axis



BHAMBAR ENGINEERS (Regd.)

we have no branches or sister concern



Vertical Cum
Horizontal Facing Machine
with Movable Overarm



Single Feed Auto
Hydraulic Milling Machine
for Bulk-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 ranges 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.
- Prolong Hardened Gears.
- All Parts are interchangeable.

SPECIFICATION CHART FOR HYDRAULIC FEED MILLING MACHINES(in mm)

Machine Type	HORIZONTAL MILLING MACHINE	
MODEL	HM 500	HM 650
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)
Arbor Diameter	25.40 mm/ As per req.	25.40 mm/ As per req.
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)	3 HP (1440 RPM's)
Coolant System, if Required	0.1 HP	0.1 HP
Approx. Weight (kgms)	1950	2250

BHAMBAR Universal/Horizontal Milling Machine are normally used for Slitting/Side & Facing of such jobs & also used to make keyways, slots, auto-components, Agriculture Parts, Tractor & Truck Parts etc. It has rigid Overarm & cutters could be mounted in arbour or directly in spindle taper for facing. The table can be swivel 45 degrees in both sides. The Horizontal Milling machines are always have non swivel tables. The attachments like Vertical attachment, Rack Cutting Attachment, Slotting Attachment, Dividing Head, Machine Vice, Hobbing Attachment can also fit on Universal Milling Machine or on Horizontal Milling machine. The Horizontal Milling Machines are available in Hydraulic models. The Hydraulic Horizontal Milling Machine is used to do high production for many types of components with high rate rapid at 3800 mm/min & variable feed range. The BHAMBAR Brand has its speciality & long term experience with better results to manufacture accurate & quality milling machines from past 5 decades.

SPECIFICATION FOR ALL GEARED UNIVERSAL / HORIZONTAL MILLING MACHINES

MODEL	M-1B	M-2B	M-3B	M-4B	M-5B	M-6B	M-7B
TABLE							
Working Surface	1200x300	1350x300	1450x350	1650x360	1900 x 400	2100 x 450	2300 x 500
Swivel	±45°	±45°	±45°	±45°	± 45°	± 30°	Fix
T-Slot Nos/Size	3/17	3/17	3/17	3/17	5/17	5/20	5/20
T-Slot Centre	60	65	80	90	80	90	95
Dist. From Spindle max/min	350-0	410-0	475-0	500-50	550 - 50	600 - 50	650 - 50
X-Longitudinal Travel	550	700	800	900	1100	1250	1300
Y-Cross Travel	180	220	265	325	450	500	550
Z-Vertical Travel	300	410	475	550	600	650	700
Table Loading Capacity in (kgms)	200	300	500	800	1100	1200	2500
FEEDS							
No. Of Feeds	9	18	18	18	18	18	18
Range of Longitudinal Feed/min	18-260	18-400	18-400	18 to 400	13 to 305	13 to 305	13 to 305
Range of Cross Feed / min	18-260	18-400	18-400	18 to 400	13 to 305	13 to 305	13 to 305
Range of Vertical Feed / min	6-120	3.5 to 90	3.5 to 90	3.5 to 90	2.5 to 62	2.5 to 62	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	735, 1065	735, 1065	500, 735
Cross Rapid Feeds / min	900	900, 1500	900, 1500	900, 1500	735, 1065	735, 1065	500, 735
Vertical Rapid Feeds / min	310	225, 365	225, 365	225, 365	147, 210	147, 210	165, 250
SPINDLE							
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
Spindle Taper	ISO 40	ISO 40	ISO 40	ISO 40	ISO 40	ISO 50	ISO 50
Arbour Diameter	25.4	25.4	25.4	25.4	25.40	40	50
ELECTRICAL							
Main Motor	3H.P.	3H.P.	5H.P.	5 H.P. 960 RPM	7.5 H.P.	10 H.P.	10 H.P.
Feed Motor	2 H.P.	2 H.P.	2 H.P.	2 H.P.	3 H.P.	3 H.P.	3 H.P.
Coolant Motor	0.1 H.P.	0.1 H.P.	0.1 H.P.	0.1 H.P.	0.1 H.P.	0.1 H.P.	0.1 H.P.
DIMENSIONS							
Overall Length	1600	1850	2000	2100	2500	2700	2800
Overall Width	1400	1600	1750	1950	2500	2600	2700
Overall Height	1550	1680	1800	1880	2400	2700	2800
Net Weight kg	2000	2600	3300	3700	4200	5000	7000
Gross Weight kg.	2200	2900	3600	4000	4600	5700	8500

STANDARD EQUIPMENTS : Electrical, Control Panel, Arbour with Hardened Bushes.

OPTIONAL EQUIPMENTS : Vertical Attachment, Ram Type Vertical Head, Side Vertical Head, Duplex Attachment, Slotting Attachment, Rack Cutting Attachment, Universal Dividing Head, Rotary Table, Milling Machine Vice, Machine Lamp, Electric Coolant Pump .

- Note : 1 All specifications are subject to change without prior notice.
 2 Picture are illustrative only. Parts shown may not be part of standard equipment.
 3 User have option to select the spindle speed among 9 or 12 before placing the order.



VERTICAL ATTACHMENT



3 IN 1 MILLING MACHINE

RAM TYPE VERTICAL GEARED HEAD

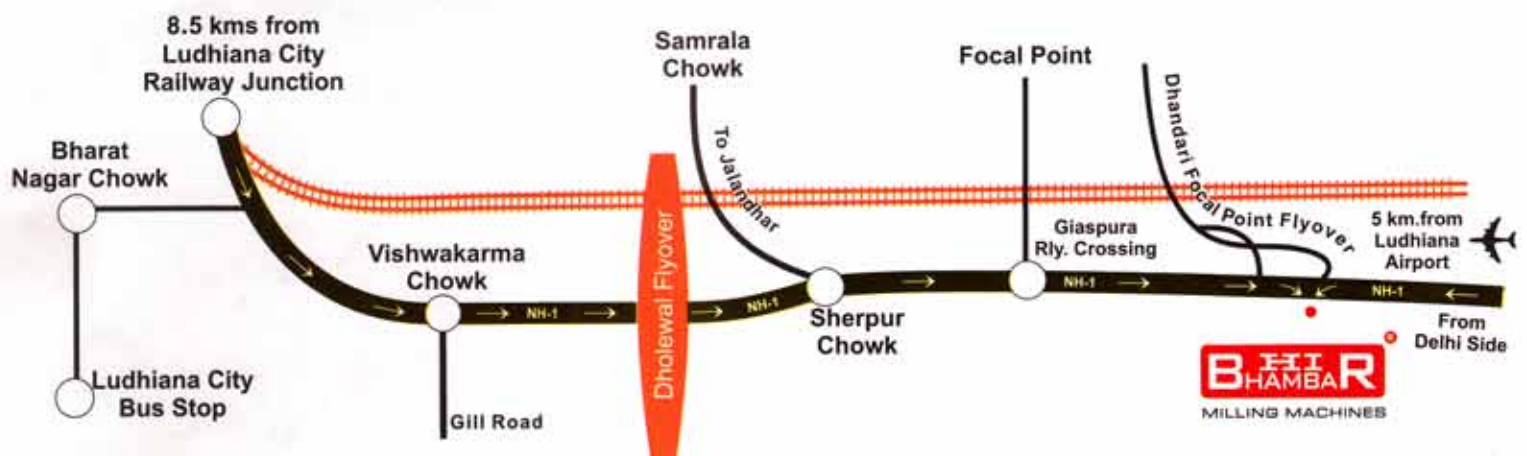
Spindle Taper	ISO 40
Quill Travel Manual	100mm
No. of Speeds	9
Speed Range	45-1120 RPM
Head Tilt in Vertical Plane	± 45°



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 five 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 kalan, Ludhiana-141 014 (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