



PRECISE & DURABLE MILLING SOLUTIONS

*Vertical Machining Centres-'Robotik Series'*



www.bhambar.in



*Well Recognised for Rigidity....*

**BHAMBAR ENGINEERS (Regd.)**

**SALIENT FEATURES**

- User Friendly Design & Controls.
- Controller on Selection basis (Siemens 808 D Advance or Siemens 828D or Fanuc Oi-Mf)
- Rigid Bed type structure design.
- Heavy Roller Type Linear motion guideways on XYZ Axis.
- Precision Ball Screws & Nuts
- BT- 40 Spindle with Servo motor.
- Servo Drives & Motors in XYZ axis.
- Automatic lubrication system for ball-screws and LM guideways system.
- Easy Hydraulic Clamp & Unclamping of Spindle Tool.
- Head counter balance.
- Guide way protection through telescopic covers/bellow covers.
- Machine LED work light.
- Pressure Coolant on Tool.
- Centralized and Programmable Lubrication.
- Electrical Control Panel with built in Air Condition.
- High Speed BT-40 Spindle.
- Linear & Circular interpolation.

**Telescopic Covers****Automatic Lubrication Pump****Rigid BT-40 Spindle****Umbrella Type ATC (Optional)****Rigid BT-50 Spindle (Optional)****Roller Type LM Guideways****Precision Ball Screws**

## SPECIFICATIONS OF CNC VERTICAL MACHINING CENTRES

SPECIFICATIONS	UNIT	VM 5030 B	VM 7040 B	VM 9050 B
<b>TABLE</b>				
Table Size	mm	600 X 350	700 X 400	900 X 450
'T' Slots/ Width/ Centre Distance	mm	3/20/80	3/20/100	3/20/130
'T' Slots Nut Size	mm	M16 Standard 'T' Nuts		
Maximum Load On Table	Kgs.	300	600	800
Distance from Floor to Table	mm	700	775	825
<b>CAPACITY</b>				
X- Traverse (Longitudinal)	mm	500	700	900
Y- Traverse (Cross Traverse)	mm	300	400	500
Z- Traverse (Vertical Traverse)	mm	400	550	750
Distance from Spindle Face to Table Top (Min. Max)	mm	100-400	120-550	120-750
Spindle Centre to Column Face	mm	300	400	500
Guide Ways	Type	LM-Roller		
<b>MAIN SPINDLE</b>				
Spindle	Standard	BT-40		
Spindle Speed	Rpm	1-7000	1-7000	1-6000
Spindle Power (30 Min. Rating)	Kw	5.5	7.5	7.5/11
Spindle Bearing Lubrication	Type	Grease Injection		
<b>FEED</b>				
Rapid Traverse (X - Y - Z Axis)	Mtr./min.	17		
Cutting Feed	mm/min.	1-10,000		
<b>TOOL CAPACITY</b>				
Max. Tool Length	mm	150	175	200
Max. Tool Weight	Kg	5	6	6
Max. Tool Diameter	mm	80		
<b>AUTOMATIC TOOL CHANGER UATC</b>				
Tool Shank	Standard	BT-40		
Number of Tools	Nos.	12		
Maximum Tool Weight	kg	6		
Total Tools Weight	kg	80		
Maximum Tool Length	mm	250		
Maximum Tool Dia (Adjacent Pocket Full)	mm	105		
Maximum Tool Dia (Adjacent Pocket Empty)	mm	130		
Air Pressure	Kg/cm <sup>2</sup>	4-6		
<b>DIMENSIONS</b>				
Weight (Approx)	Kg	2500	3500	4200
Machine Length (Approx)	mm	1800	2120	2440
Machine Width (Approx)	mm	2000	2570	3020
Machine Height (Approx)	mm	2200	3100	3570
<b>GENERAL INFORMATION</b>				
Controller (On Selection Basis)	Make	Siemens 808 Advance/ Siemens-828D/ Fanuc- Oi-Mf		
Coolant Tank Capacity	Litres	150	150	200
Lubrication	Type	Automatic Centralized		
Total Connected Load	Kw	10	15	18
Hydraulic Materials	Make	Yuken / Huade		
Linear Guideways/Ball Screws	Make	Hiwin /PMI		

### STANDARD ACCESSORIES

- Electrical • Servo Motors & Drives • Siemens or Fanuc Make Controller • Full Machine Guarding • Telescopic Covers • Air Gun • Machine Lamp
- Air Blast for Spindle Taper Cleaning • Absolute Built in Encoders in Motors • Coolant System with accessories • Air Condition for Electrical Panel

### OPTIONAL ACCESSORIES

- Automatic Tool Changer • Chip conveyor with Trolley • Higher Spindle Power • CNC Rotary Table as 4th Axis • Extra Mobile Manual Pulse Generator – MPG • Wash Gun • BT 50 Spindle on Head • Foot Switch • Any other thing not mentioned in this list.

**Note: The design & specifications are subject to change without prior notice to keep in view of continual Research & Development in machines**

## 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, PLC controlled servo motorized milling solutions, Duplex Type & other special Purpose Milling Machines with different type of attachments. We have recently added a wide range of rigid Vertical Machining Centres specially for production & die makers. 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 automated milling solution will provide 100% value for your money.

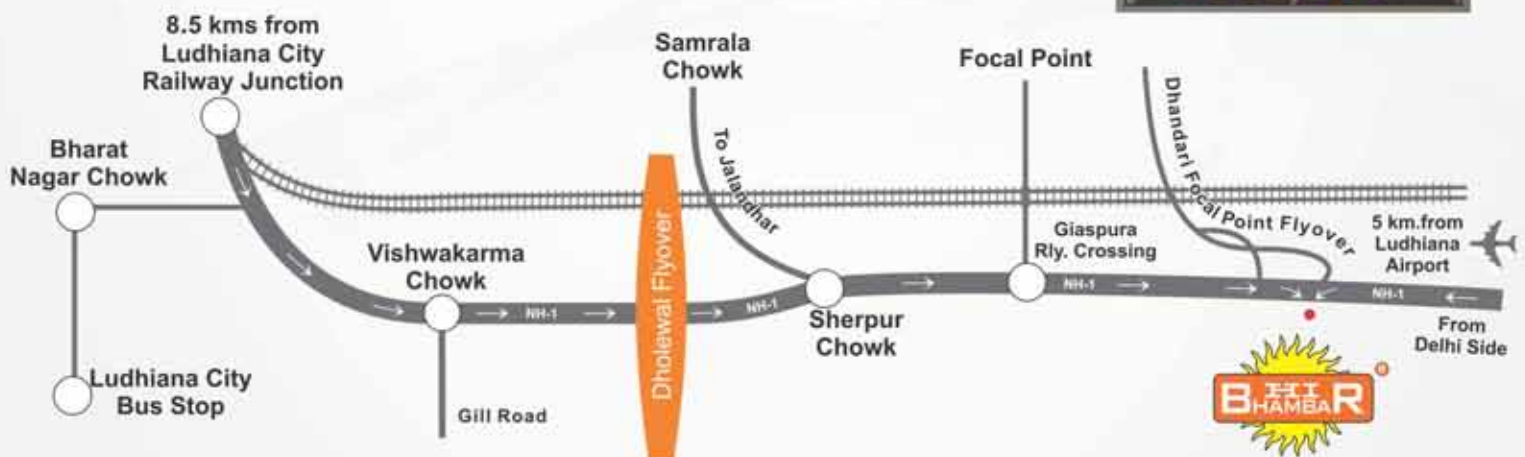
Best CNC Controller Options are Available

**SIEMENS**  
*Ingenuity for life*

**FANUC**

### FEATURES

- Display 8.4" Coloured LCD
  - 4 Axis System
  - Feed Override 200% in Steps of 10%
  - Jog Mode
  - Handwheel Mode
  - Tool Offsets
  - MPG-Manual Pulse Generator
  - Absolute Drive Motors
  - Linear Interpolation
  - Circular Interpolation
  - Backlash Compensation
  - Internal Storage to Save Programs
  - Drilling Mode
  - Tapping Mode
  - Facing Milling Mode
- & many more options available.



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