



**ABHIJAT™**  
EQUIPMENTS PVT. LTD.

A Legacy Since 1976

Experience the Ultimate Combo of Accuracy and Repeatability

# HYB-32

Patent No: 202221066035

## CNC Turning Machine

- **Compact Footprint**
- **Servo and Cam drive combination**
- **Overlapping Operations**
- **High Productivity**
- **Ergonomic and User Friendly**
- **Aesthetically Sound**
- **Economic**
- **Patented Design**

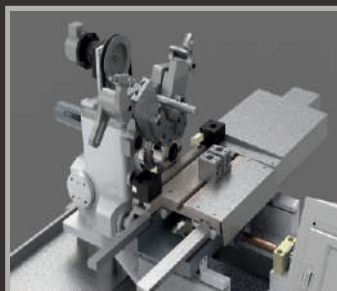


\* Photos are for visual reference only

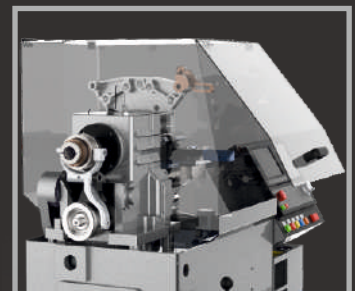
Ergonomic Control Panel



Work Space



Acrylic Enclosure



We don't only Sell Machines, We also build relationship

**Abhijat** make innovative **HYB-32** is designed to provide customer value for money by virtue of smart kinematic combination of full version CNC lathe and proven Traub principles. The machine provides convenient operating facility, rigidity, high accuracy and short machining times due to overlapped operations. The product provides both Repeatability and Accuracy. The machine has a strong, rigid buildup and facilitates simultaneous machining by using Servo motor driven CNC slides and cam driven mechanical vertical slides. The high power motor enables high accuracy machining with good surface finish for turned parts of up to 32 mm diameter. LM guides and ball screws are used in both slides ensuring smooth and consistent axial movements. The machine is designed to be compact thus saving on space. The auto controlled vertical slides provide wide range of cycles to be set for the machine. Aesthetically and Ergonomically designed guarding is provided to ease operation visualization and the user-friendly HMI are provided with the machine.

## HYB-32 Specifications

1.	Spindle Capacity		
	Bar - Max Dia	mm	32
	- Max Hex	mm	28
	- Max Square	mm	22
	Turning Length	mm	70
	Swing Over Cross Slide	mm	45
2.	Main Spindle		
	Collet Type		A32
	Spindle Motor	KW	2.2/2.4
	Max bar dia. through Spindle	mm	32
	Spindle Speed Range	RPM	550-3000 (12stage)
3.	Slides		
	Cross X-Axis Travel	mm	185
	Longitudinal Z-Axis Travel	mm	70
	Rapid	mts/min	10
	Vertical Slide Travel	mm	20
	Cycle Range	Pcs./Hr	50-500
4.	Tooling		
	Linear Tool T-Slot Details	No*mm	1*12
	Turning Tool Holders Shank Size	mm	12*12 ( 2 Nos.)
	Drilling Tool Holder Shank Dia.	mm	20 ( 2 Nos.)
	Vertical Slide Tool Holder Shank Size	mm	10*10 (2 Nos.)
5.	CNC Controller		Delta NC 200
6.	Machine Weight	Kg	900
7.	M/C Size L*b*h	mm	1400*1060*1500
8.	Power Requirement	KVA	8

### Basic Machine Consists Of :

- LM Slides for X & Z axis
- Cam driven Collet Chucking
- VFD controlled Cam driven Vertical Slides
- Manual Spindle Speed Selection
- Tool Holders
- Coolant Attachment
- Coolant tank
- Chip tray
- Manual Lubrication System
- Acrylic Machine Enclosure
- Delta controller and Ergonomic Control Panel
- Machine manual
- Tool kit

### CNC System Details :

- System Controller
- Absolute Delta Control System
- No of CNC controlled axis - 2
- Manual data input
- Programmed High/Low Spindle Speed Control
- Multiple repetitive cycles
- Tool and Clearance Compensation
- Graphic Colour Display
- USB Port

### Optional Machine Features :

- Manual Pulse Generator
- Bar Feeder Attachment
- Machine lamp
- Threading Attachment Kit with Encoder System
- Part deflector
- Foot Switch
- 3 Phase Voltage Stabilizer



Components Provided  
On Machine

Note: We reserve all rights to modify specification in accordance with the improved designs. Although every effort will be made to maintain the accuracy, in the figures must be taken as approximate and in no way binding.



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