

HYTECH

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CNC SEMIPRODUCTION LATHE

Detailed Specifications of CNC Semiproduction Lathe Trainer Machine

HPL 100	
Machine Details:	
Bed Type	Flat / 45 Degrees Slant
Chuck Size	135 mm (Dia)
Chuck Type	Hydraulic/ Manual
Maximum Turning Diameter	60 mm
Maximum Turning Length	250 mm
Ball Screw X / Z	Ø25 x 5 - C3 Class
Guideways	LM Guideways
Center Height	150 mm
Swing over Cross Slide	150 mm
Swing Over Bed	250 mm
Distance between Centres	300 mm
CNC Controller Details:	
Controller	Siemens / Fanuc Industrial Controller
Available Options in Siemens Controller	808D / 808 Advance / 828
Available Options in Fanuc Controller	0iTF / Oi Mate TD
Accuracy:	
Positioning	0.010 mm
Repeatability	+/- 0.005 mm
Resolution	0.001 mm
Spindle:	
Spindle Motor	AC Motor with VFD
Spindle Motor Capacity	3.7 KW / 5 HP
Spindle RPM	100 to 3000 RPM
Accuracy	
Spindle Speed	Continuous Variable
Spindle Nose Taper	A 2-3 / A 2-5
Hole Through Spindle	20 mm
Axes	
Axis Motor and Drive	Servo Motor with Servo Drives
X Axis Travel	100 mm
Z Axis Travel	250 mm
Feed Rate	0 to 5,000 mm/min
Rapid Travel	5,000 mm/min
Turret and Tooling:	
Turret Type	Automatic
Number of Stations	8
Tool Cross Section	16 mm x 16 mm
Boring Bar Size	16 mm
Tailstock:	
Tailstock Base Stroke	170 mm
Tailstock Quill Stroke	30 mm
Tailstock Actuation	Hydraulic/ Manual
Miscellaneous:	
Lubrication	Automatic
Coolant	Automatic
FMS Compatibility	Provided
Dimension in mm	1500 x 1200 x 1700 mm
Power Supply	415V, +-2% 50 Cycles, 3 Phase

Prestigious Clients Include :

- ▲ Maruti Suzuki Capability Development Center (CDC)
- ▲ Indo German Tool Room - Ahmedabad
- ▲ Indo Danish Tool Room - Jamshedpur
- ▲ National Institute of Technology - Warangal
- ▲ Indian Institute of Technology - Delhi
- ▲ MSME - Agra
- ▲ IL&FS - National Skill Development Center (9 Centers all over India)
- ▲ Amity University - Greater Noida



Pic : HPL 100 with Slant Bed, Hydraulic Chuck and 8 Station Production Turret



HPL 100 with Slant Bed, Hydraulic Chuck, Hydraulic Tailstock and 8 Station Production Turret

- ▲ Indigenously designed & manufactured patterns & high quality FG32 grade castings
- ▲ Linear motion Guideways and C3 class ballscrews
- ▲ Option of 8 station and 4 station production type Automatic turret
- ▲ Option of Flat Bed as well as 45 Degree Slant Bed

- ▲ Floor mounted machine with minimum weight of 1000 Kg
- ▲ Option of Hydraulic chuck (135mm and above) as well as Hydraulic tailstock
- ▲ Automatic Lubrication and Automatic Coolant
- ▲ Manual Pulse Generator (MPG)
- ▲ Industrial MOP



HPL 100 with Flat Bed, Hydraulic Chuck and 8 Station Production Turret

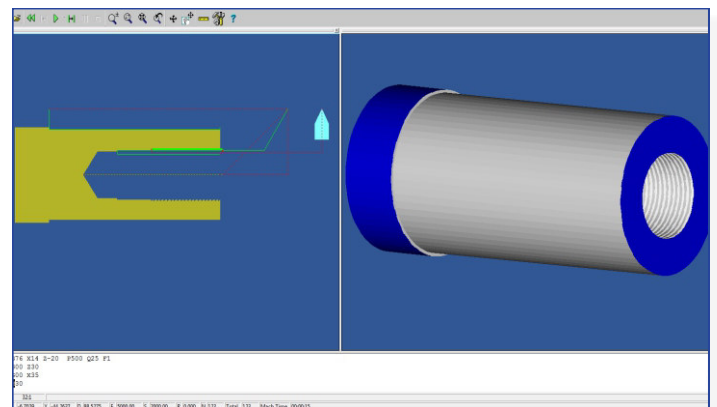
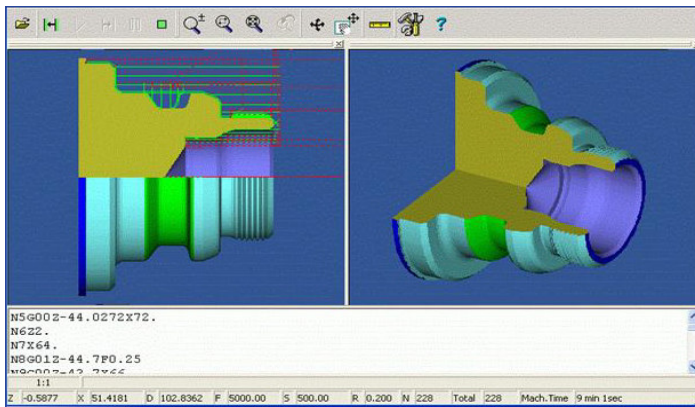
- ▲ Option of Metallic telescopic bellows
- ▲ AC Motor spindle with power ranging from 3HP to 5HP
- ▲ Air Mist Lubrication
- ▲ Provision of software as well as hardware over travel limits to avoid any accident
- ▲ Option of High Speed Spindle (Up to 10,000 RPM)



HPL 100 with Flat Bed, Manual Chuck and 4 Station Production Turret

You don't really learn g code without simulating it do you?

Whether you have a mill or a lathe, Cutviewer shows you exactly what your part will look like. Hytech CNC Trainer machines are developed in collaboration with CutViewer. Whichever program is simulated on CutViewer software, will definitely work on Hytech CNC Machines. Hytech Automation are exclusive distributors for CutViewer software in India. CutViewer is the best solution to learn CNC programming.



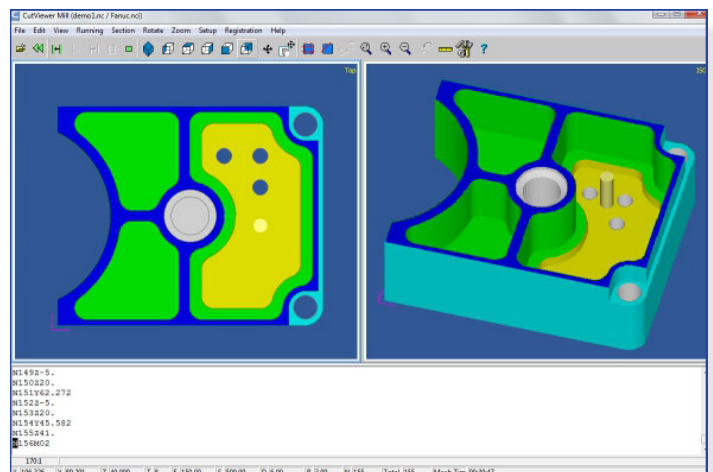
How many students are actually familiar with NC codes

Most of the students are not aware about Fanuc and Siemens cycles which are most commonly used in industrial sector. You don't really have to purchase a Siemens or Fanuc controller to understand their specific cycles. CutViewer can simulate each and every cycle for Fanuc, Siemens, Traub and Heidenhain controllers which are most widely used in Indian industrial sector.

Full 3D Simulation, not just a toolpath viewer

There are lots of "CNC Simulators" out there that don't simulate anything- they just show you the toolpath.

Your CAM program can show you the toolpath but you need to see what the finished part is going to look like. Cutviewer shows you a full 3D simulation of the finished part based on the toolpath, the stock you define, and the cutters you're using.



HYTECH AUTOMATION

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