CNC LATHE TRAINER MACHINE

Detailed Specifications of CNC Lathe Trainer Machine

|	CLT 100	SLT 100 Servo
Machine Details:		
Bed Type	Flat / 45 Degrees Slant	Flat / 45 Degrees Slant
Keyboard Type	Fanuc Emulated / Standard	Fanuc Emulated / Standard
Chuck Size	100 mm (Dia)	100 mm (Dia)
Chuck Type	Hydraulic / Manual	Hydraulic / Manual
Maximum Turning Diameter	50 mm	50 mm
Maximum Turning Length	250 mm	250 mm
Center Height	100 mm	100 mm
Swing over Cross Slide	80 mm	80 mm
Swing Over Bed	200 mm	200 mm
Distance between Centre	320 mm	320 mm
CNC Controller Details:		
Controller	CutViewer-United Kingdom with Emulation of Fanuc, Siemens , Traub and Heidenhain	CutViewer-United Kingdom with Emulation of Fanuc, Siemens , Traub and Heidenhain
Control System	PLC Based Control System	PLC Based Control System
Operating Software	CutViewer - United Kingdom	CutViewer - United Kingdom
Accuracy:		
Positioning	0.010 mm	0.005 mm
Repeatability	+- 0.015 mm	+/- 0.010 mm
Resolution	0.010 mm	0.001 mm
Spindle:		
Spindle Motor	AC Motor	AC Motor
Spindle Motor Capacity	2 HP	3 HP
Spindle RPM	100 to 3000 RPM with VFD	100 to 3000 RPM with VFD
Spindle Nose Taper	A 2-3 / MT 3	A 2-3 / MT 3
Hole Through Spindle	20 mm	20 mm
C Axis (Optional)	C Axis with Brake	C Axis with Brake
Axes		
Axis Motor and Drive	Stepper Motor with Stepper Drives imported from Singapore	Servo Motor with Servo Drives (Mitsubishi / Siemens / Fuji)
X Axis Travel	100 mm	100 mm
Z Axis Travel	280 mm	280 mm
Ball Screw X / Z	Ø25 x 5 - C4 Class	Ø25 x 5 - C3 Class
Feed Rate	0 to 1,200 mm/min	0 to 5,000 mm/min
Rapid Travel	1,200 mm/min	0 to 5,000 mm/min
Turret and Tooling:		
Turret Type	Automatic	Automatic
Number of Stations	8	8
Tool Cross Section	16 mm x 16 mm	16 mm x 16 mm
Boring Bar Size	16 mm	16 mm
Tailstock:		
Tailstock Base Stroke	200 mm	200 mm
Tailstock Quill Stroke	100 mm	100 mm
Tailstock Actuation	Hydraulic / Manual / Electrical	Hydraulic / Manual / Electrical
Miscellaneous:		
Lubrication	Automatic	Automatic
Coolant	Automatic	Automatic
FMS Compatibility	Provided	Provided
Real Time Toolpath Simulation	Provided	Provided
Dimension in mm	1480 x 800 x 1200 mm	1480 x 800 x 1200 mm
Power Supply	230V, Single Phase	415V, +-2% 50 Cycles, 3 Phase

- PLC based technology which is much more advances than PC (I/O Card) based technology generally used in trainer machines
- Emulation of Emulation of Fanuc, Siemens , Traub as well as Heidenhain controller
- CAM Programs (NC Codes) Generated from any leading CAD CAM Software such as MasterCAM, NX CAM, olidworks, Solid EDGE, EDGE CAM can bedirectly executed on the Hytech CNC Trainer Machines
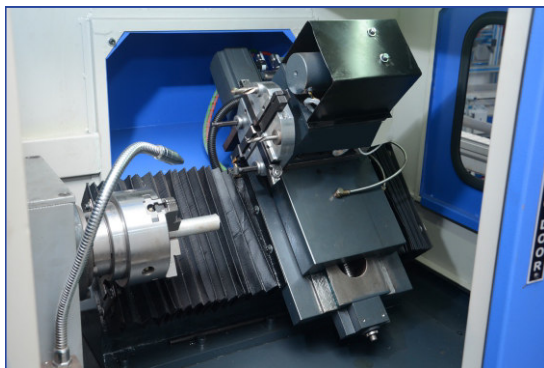
SLT 100 Servo with slant bed

- Indigenously designed & manufactured patterns & high quality FG32 grade castings
- Ergonomically designed machine
- 8 Station automatic turret
- Option of Flat Bed as well as 45 Degree Slant Bed

- Floor mounted machine with minimum weight of 850 Kg
- C3 class ground ball screws
- Option of Hydraulic chuck (135mm and above) as well as Hydraulic tailstock
- Automatic Lubrication and Automatic Coolant
- Fanuc Emulated Industrial grade MOP
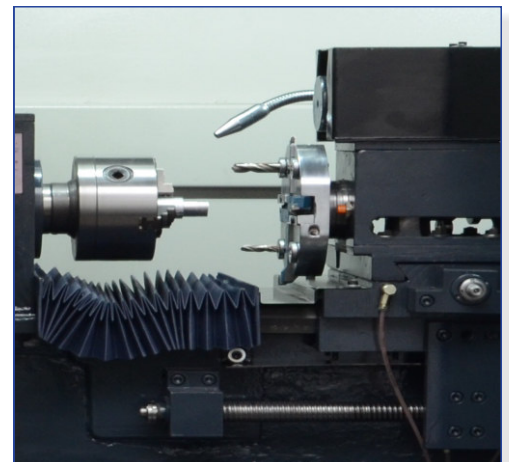
CLT 100 with flat bed

SLT 100 Servo with Hydraulic Chuck

- Option of Metallic telescopic bellows
- Option of MPG (Manual Pulse Generator)
- AC Motor spindle with power ranging from 2HP to 5HP
- Air Mist Lubrication
- Provision of software as well as hardware overtravel limits to avois any accident

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.
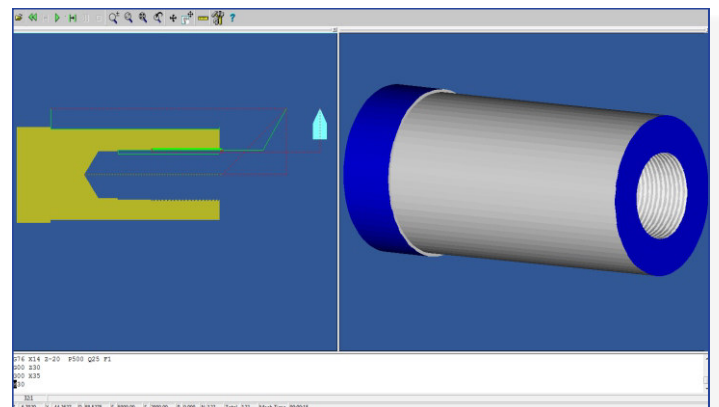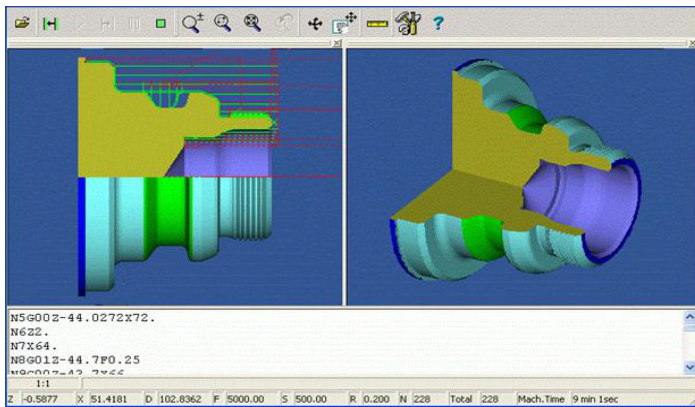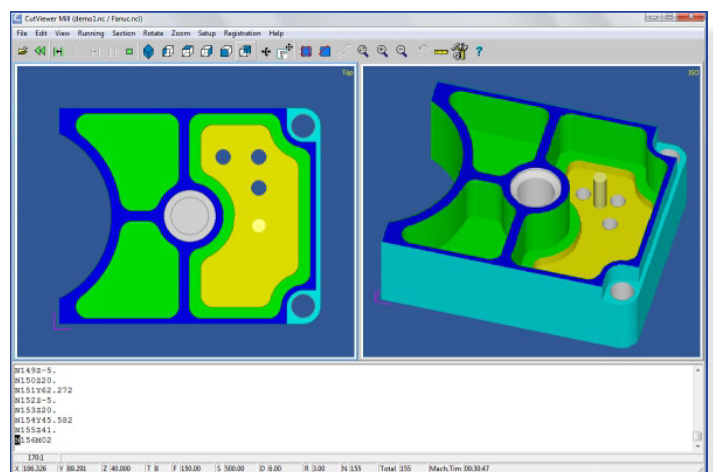

How many students are actually familiar with NC codes

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.