HYTECH
AUTOMATION

CNC MILL MACHINE

Detailed Specifications of CNC Mill Machine

	SPM 500
Axes	
Axis Motor and Drive	Servo Motor with Servo Drives
X Axis	500 mm
Y Axis	310 mm
Z Axis	400 mm
Ball Screw X / Y / Z	Ø32 x10 - C3 Class / Ø32 x 5 - C3 Class
Guideways	LM Guideways
Distance between Table top and Spindle Nose	120 - 620 mm
Distance between Spindle to Column	460 mm
Feed Rate	0 to 10,000 mm/min
Rapid Travel	10,000 mm/min
Table	
Table Size	650 x 260 mm
T Slot	3 x 14
Load On Table	350 Kg
Spindle	
Spindle Motor Capacity	5.5 / 3.7 KW
Motor Type	Digital AC Servo Spindle
Spindle Nose Taper	ISO 40 / BT 40
Spindle RPM	50 to 6000 RPM
CNC Controller Details:	
Controller	Siemens / Fanuc Industrial Controller
Available Options in Siemens Controller	808D / 808 Advance / 828
Available Options in Fanuc Controller	0iMF / 0i Mate MD
Accuracy	
Positioning	0.010 mm
Repeatability	+/- 0.005 mm
Resolution	0.001 mm
4th Axis Resolution (Optional)	0.02 Degrees
Tool Changer (ATC) - OPTIONAL	
Tool Changer	Automatic
No. of Tools	12
Maximum Tool Length	200 mm
Maximum Tool Dia.	50 mm
Type of ATC	Umbrella Type
Actuation	Pneumatic / Hydraulic
Tool Holder	BT 40 Tool Holder with Collet Chuck
Machine Details	
Run Speed Control	CNC Controlled with Software
Real Time tool path simulation	Provided
Vice Type	Manual / Hydraulic
Dimension in mm	1650 x 2000 x 1750 mm
Approximate Weight	2300 Kg
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
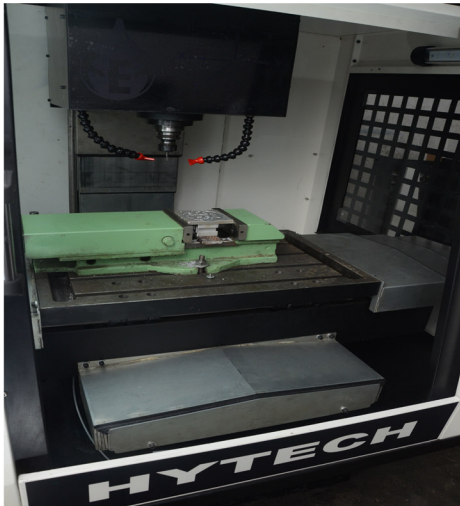
- Indigenously designed & manufactured patterns & high quality FG32 grade castings
- Ergonomically designed machine
- 8 Station ATC (Automatic Tool Changer) with Pmeumatic Actuation
- Linear Motion Guideways and C3 Class Ballscrews

- Floor mounted machine with minimum weight of 1200 Kg
- Option of Pneumatic Vice
- Automatic Lubrication and Automatic Coolant
- Industrial MOP (Machine Operating Panel)
- Manual Pulse Generator (MPG)
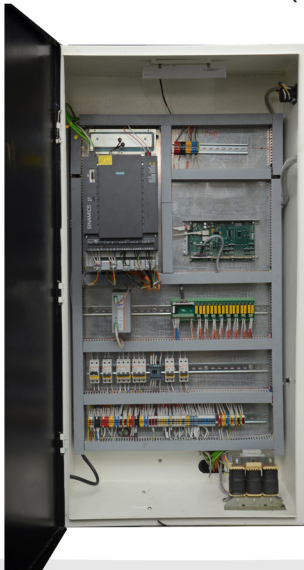
- Option of Metallic telescopic bellows
- AC Motor spindle with power ranging from 2HP to 5HP
- Air Mist Lubrication
- Provision of software as well as hardware overtravel limits to avoid any accident
- Option of Automatic loading and unloading Arm (3 Axis Robotic Arm)
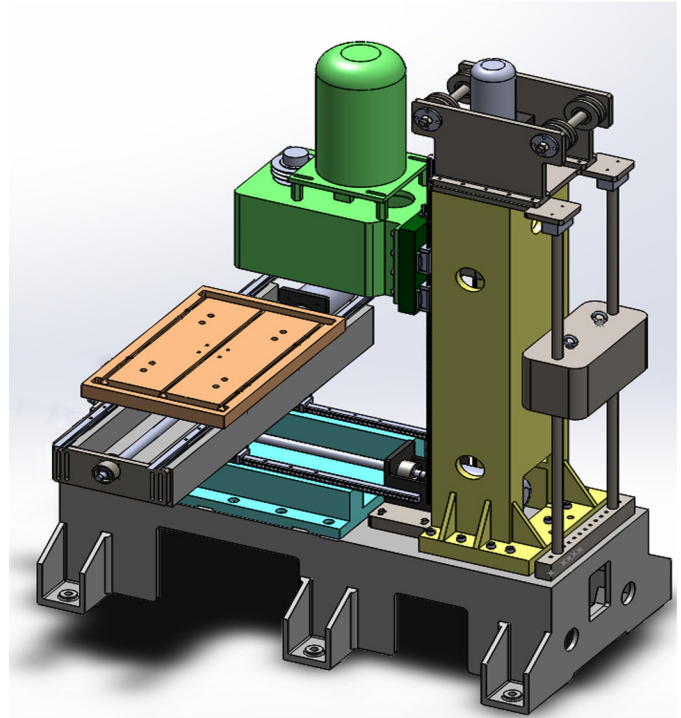
You don't really learn g code without simulating it do you?

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.
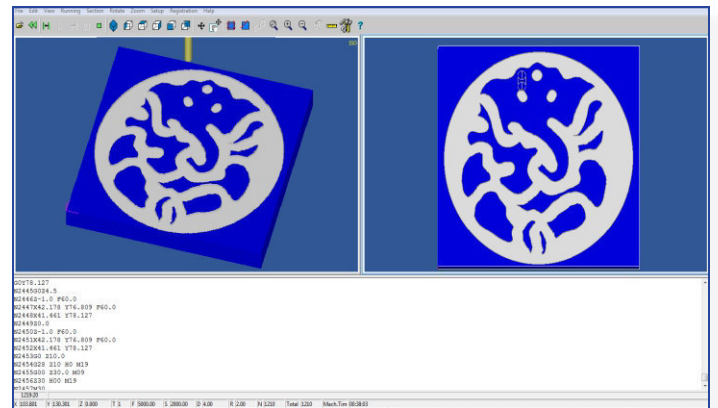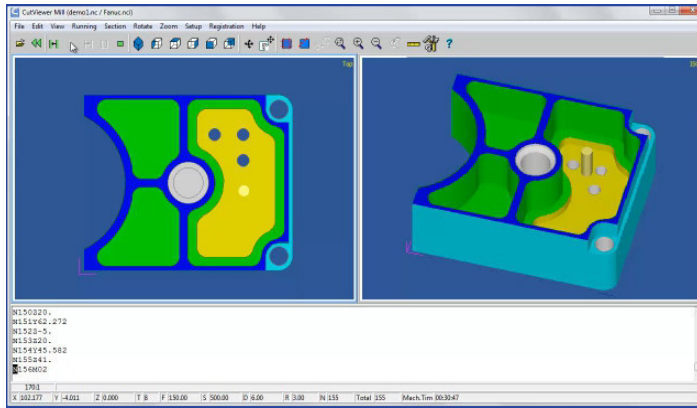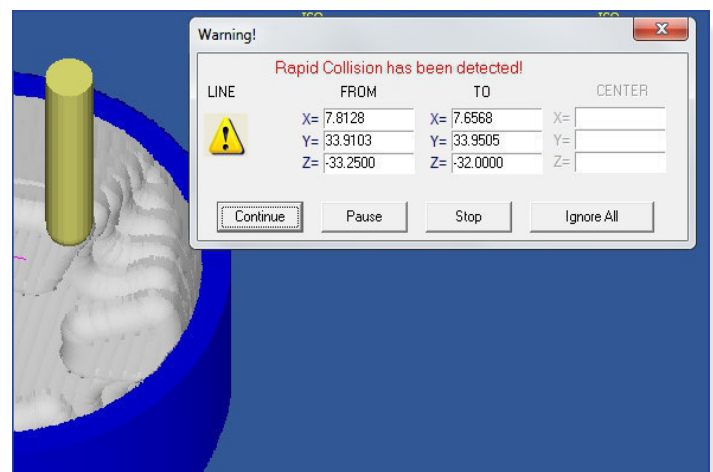

How many students are actually familiar with NC codes

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.