



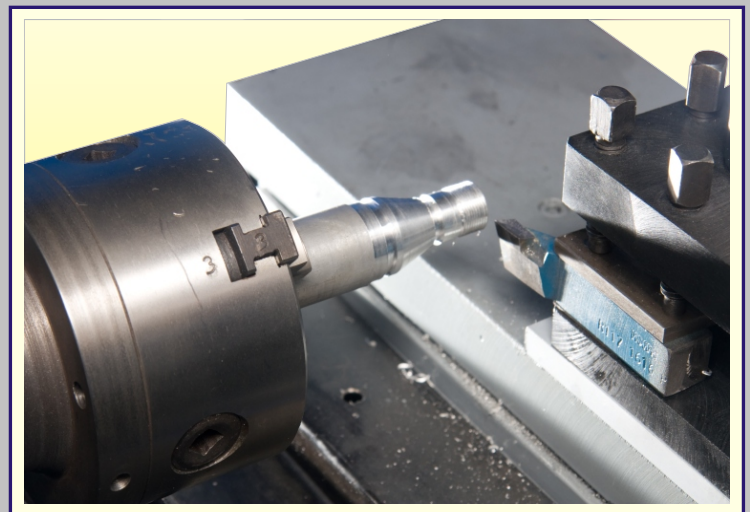
# HYTECH EDU. EQUIP. PVT. LTD.

## CNC LATHE TRAINER

MODEL : CNC-NANO TURN

- ☺ TECHNICAL TIE UP WITH “CUTVIEWER”- TUDOR, UK
- ☺ Specially Developed for ITI & Polytechnic Institutes.
- ☺ Automatic G Code Generation Software.

- 22 COUNTRIES- SATISFIED WITH “CUTVIEWER”
- ONLINE WINDOW BASED 3D SOFTWARE
- DETAIL MANUAL WITH QUESTION BANK
- TRAINED STUDENT WORKS ON INDUSTRIAL M/C SAME DAY
- FANUC, SIEMENS Controller (Emulation)
- Light Machining on Mild Steel.
- Material Recommended, Aluminium, Brass, En1A Steel



### CONTROLLER

- Type of Control System : PC based system.
- Main Spindle Drive : AC Motor With VFD.
- Z and X axis drive : Stepper Drive with Ramp Function.
- Input to Stepper Motor Drive : Optically Isolated, TTL compatible.
- Run speed control : Computer Control with Software.
- Interpolation : Linear, Circular, Parabolic interpolation.
- Code Used : G, M, S, T, F, I, K, M, F
- Cycles : Circular Interpolation, Canned Cycle.
- Threading : Straight & Taper
- Power Devices : Short Circuit & Over Temp. Protected.
- Real Time Tool Path simulation : Provided

### SPINDLE

- Spindle Speed : Continuous Variable Speed
- Spindle Power : 2 HP
- Inside Taper : MT 3
- Speed Range : 50 to 3000 rpm

### MACHINE DETAILS

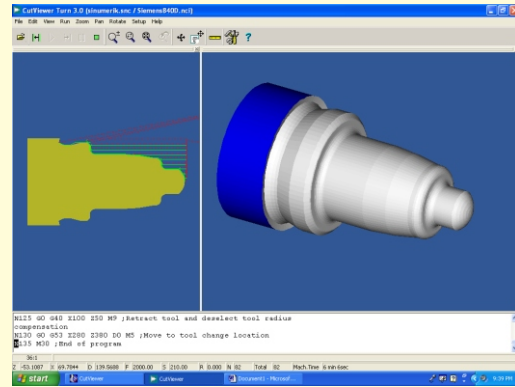
- Centre Height : 100 mm
- Swing Over Carriage : 80 mm
- Distance Between Centre : 200 mm
- Longitudinal Travel : 160 mm
- Weight : 350 Kg Approx.
- Height : 900 mm
- Rapid Travel : 400 mm/min
- Resolution X & Z Axis : 0.005 mm
- Lubrication : Manual

KEY FOR ADVANCED AND LATEST CAD-CAM TECHNOLOGY !

Due to continuous Research & Development specifications may change without notice.

## SALIENT FEATURE OF CNC LATHE TRAINER

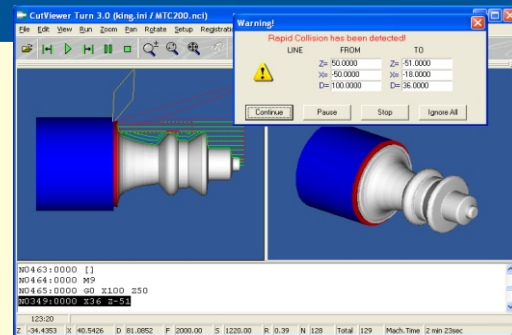
- Sturdy & Rigid Mechanical Design with Finite Element Analysis.
- Ground Precision LEAD SCREW
- Variable Speed drive for spindle
- Manually Operated Tool Post.
- Constant surface cutting speed is possible.
- Lathe's Geometrical tolerances are maintained as per IS 6040-1993 Standard.
- Wear resistant **Turcite Material** is provided on beds.
- Manually Operated Lubrication system .
- Parabola, Circular Interpolation is possible.
- Part Programming with ISO standard codes.
- Easy maintenance possible with easily replaceable spare card.
- User friendly & Detail Operation and Maintenance Manual.
- Various Canned cycles are provided.
- Safety Functions with Emergency Stop, overtravel limits.
- Powerful Graphics.



## SOFTWARE & CONTROLLER

### SUPPORT CONTROLLER FILES

- Emulation of Fanuc & Siemens Controller -
- Under technical tie up with TUDOR - UK



## SOFTWARE FEATURES

- Rapid Collision Detection
- Online 3D Facility
- Dynamic Zoom / Pan / Rotation
- Measurement Facility
- Trace Forward / Backward
- Cross Section Display
- Display Toolpath & printout Facility
- Machine Time measurement
- Volumetric Measurement.
- Display of feed rate, spindle speed in execution & simulation mode.
- Visig principle "What You Will See On Graphic That You Will Get Executed On Machine".
- Off Line Help Facility is provided.
- Controller and drives have passed through IS9001 Testing.

■ Various Other Models are Available on Request ■

## HYTECH EDUCATIONAL EQUIPMENTS PVT. LTD.

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