

CNC LATHE TRAINER



FEATURES:

- Powerful Windows Based Controller with Best-In-Class Features Suitable for Learning CNC Machines.
- CNC Code Editor with Error Checking Feature.
- Separate JOG/INCH Screen with Full Manual Control of Each Axis, Spindle and Turret.
- Intuitive LED like Indicators on-Screen for Limits, Spindle Status, Lubrication Status and Emergency Stop. Indicators for Speed and Feed Override.
- Innovative live View on Screen. To See the Actual Video of Machining Process on Screen.(Optional)
- Powerful 3D simulation, Online and Offline. Selection for Solid and Wireframe Work Piece and Tool View.
- Perspective Viewing and Machine Axis Referencing View in Tool Path Simulation.
- Customizable Tool Library. Design your own Tools to your Specifications of True Dimensions. Multiple Customizable Tool Offsets for Each Tool.
- Customizable Work Piece Design. Design your Own Work Piece as Close as Actual by Specifying Parameters and Geometry.
- STL File Import & Export for using Actual Work Piece Designed in 3D Modeling Software for Near Real Simulation. Avoid Collisions and Errors while Machining with this Type of Work Piece Selection.
- Option for Setting Different Colors and Transparency Levels for Tool and Work Piece to Easy Visualization of Intricate Machining.
- Usual Zoom, Pan and Rotate Operation in 3D Graphics View of Machining Simulation.
- Online Help on G and M codes while Creating Part Program.
- MDI Feature, Single Block Mode and Auto Mode for Execution.
- Machine Zero for Calibration and Automatic Tool Selection if Turret is Available.
- Automatic Lubrication at Regular Time Interval Guarantees no Manual Lubrication Needed for Precision Moving Parts of Machine.
- Intuitive Fault/Error Display with Suggestive Action for Easy Diagnosis and Corrective Measure.



MACHINE FEATURES

- Rugged Machine with Ground Bed.
- 8 Station Programmable Turret.
- Industrial Motion Controller.
- Manual Pulse Generator (MPG) (Optional).
- Innovative live View on Screen (Optional).
- FMS and CIM Compatibility.

MACHINE SPECIFICATIONS

• Model	VLM – T- 100
• X – Axis Travel	150 mm
• Z – Axis Travel	200 mm
• Chuck Size	100 mm
• Maximum Turning Diameter	30 mm
• Maximum Turning Length	150 mm
• Swing Over Cross Slide	80 mm
• Spindle Nose Taper	MT3
• Standard Cutting Tool Size	16 x 16 mm
• Spindle Motor	2 H.P DC Motor (300 - 3000 RPM)
• Resolution	0.005 mm
• Repeatability	± 0.01 mm
• Automatic Lubrication Points	Provided
• Interpolation	Linear, Circular
• Programmable Feed Rate	0- 800 mm/Min.
• Rapid Feed Rate	0- 1200 mm/Min.
• Control System	PC Based System
• Turret	8 Station (Electro – Pneumatic)
• Coolant System	40 Liters. (Programmable)
• Lubrication	Centralized (Programmable)
• Axis Motor	Stepper Motor / Servo Motor (Optional)
• Mains Supply	230 V AC, Single Phase
• Machine Dimensions	Approx. 1500 x 900 x 1500 mm
• Total Weight	Approx. 900 Kg.