

# EDU CNC Machine with Build-in TROUBLESHOOTING BOARD



**MODULE 2: CNC Machine Troubleshooting Experiences**

**MODULE 3: CNC Machine Maintenance Experiences**

## EDU VR1 Lathe-TB



### MECHANICAL SPECIFICATIONS

Controller	: Siemens 808D/Fanuc Oi Mate
Swing over bed	: 280mm
Swing over cross	: 150mm
Distance between center	: 140mm
Maximum turning dia/length	: 120/250mm
Stroke of Z axis	: 230mm
Strokes of X axis	: 130mm
Spindle Speed	: 100-2000rpm
Rapid Traverse Rate	: 3000mm/min
Programmable feed rate	: 1500mm/min
Tailstock travel	: 80mm
Spindle motor	: 1.5kW
Chuck size	: 125mm
Transmission (Program transfer)	: Siemens 808D : RS232,USB Fanuc Oi Mate : RS232,Ether Net, CF
Accuracy	: 0.02mm
Repeatability	: 0.012
Resolution	: 0.001
Turret	: 6 tools
Cutting tools	: 12 x 12 mm
Overall Dimension	: Approx. (L x W x H) 1750mm x 1750mm x 1200mm
Machine weight	: Approx. 850kg
Power supply	: Siemens 808D; RS232, USB : Fanuc Oi Mate ; RS232, Ether Net, CF



### COURSE SYLLABUS

- Introduction to CNC Troubleshooting
- Experiment 1 : Electrical wiring assembly
- Experiment 2 : CNC machine data tuning
- Experiment 3 : How to use PLC to monitor machine signal
- Experiment 4 : Machine I/O troubleshooting
- Experiment 5 : Spindle inverter troubleshooting
- Experiment 6 : Servo Motor troubleshooting

## EDU CNC Smart Lab - EDU VR1 CNC MACHINE - TB



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