ECO CNC MILL TRAINER AZA1256

The AZA1256 ECO CNC Mill Trainer by AZA LAB is an advanced Computer Numerical Control (CNC) milling training machine developed to provide hands-on practical learning in CNC machining operations. Specifically engineered for technical institutes, engineering colleges, skill development centers, and industrial training laboratories, this system delivers a safe, accurate, and industry-relevant platform for mastering CNC milling fundamentals.

By combining precise motion control, industry-standard programming capability, and integrated safety systems, the AZA1256 creates an effective educational environment aligned with modern manufacturing practices and industrial machining standards.

MECHANICAL DESIGN & MOTION SYSTEM

The AZA1256 features a rigid and stable mechanical structure engineered to ensure accuracy, repeatability, and operational reliability during training applications.

KEY MECHANICAL FEATURES

1. RECIRCULATING BALL SCREW MECHANISM

Provides smooth axis movement with minimal backlash for improved positional accuracy.

2. DC STEPPER MOTOR DRIVES

Ensures precise and repeatable motion control on all three axes.

AZA LAB UNIVERSE

TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	AZA1256
Make	AZA LAB
Table Size	500 × 200 mm
T-Slot Size	10 mm
X-Axis Traverse	200 mm
Y-Axis Traverse	160 mm
Z-Axis Traverse	190 mm
Spindle Speed Range	100 – 1500 RPM
Spindle Power	0.5 HP
Axes Control	3 Axis (X, Y & Z simultaneous)
Least Count	0.005 mm
Rapid Traverse Rate	400 mm/min
Feed Rate	0 – 200 mm/min

TECHNICAL SPECIFICATIONS

Parameter	Specification
Axis Drive	DC Stepper Motor (all axes)
Programming Codes	G, M, F, I, J, K
Power Supply	230 V, 50 Hz
Machine Dimensions (L × W × H)	800 × 600 × 1000 mm
Machine Weight	180 kg

APPLICATIONS

The AZA1256 is ideal for:

- CNC milling training programs
- Engineering and technical institutes
- Industrial skill development centers
- CNC programming demonstrations
- Machining fundamentals training
- Practical manufacturing process education

The trainer supports progressive learning from basic axis movement to advanced CNC milling cycles.