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TENSILE TESTING MACHINE AZA1015

The AZA1015 Tensile Testing Machine is a high-precision Universal Testing Machine (UTM) engineered for the accurate determination of mechanical properties of a wide range of materials. Designed with advanced electromechanical technology, it is ideal for testing metals, plastics, rubber, composites, and other solid materials under controlled tensile loading conditions.

This system delivers reliable, repeatable, and standards-compliant results, making it suitable for industrial quality control, research laboratories, and academic institutions.



Key Features

- High-precision electronic load cell for accurate force measurement
- Servo motor-driven electromechanical system for smooth and controlled operation
- Digital / PC-based control system with intuitive interface
- Variable crosshead speed to accommodate different material testing requirements
- Real-time stress-strain curve generation and display
- Provision for optional extensometer for precise strain measurement
- Robust heavy-duty load frame ensuring structural rigidity and repeatability
- Advanced data acquisition and reporting software



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TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA1015
Machine Type	Universal Testing Machine (UTM)
Drive System	Servo motor, electromechanical
Load Capacity	1 kN to 100 kN (model dependent)
Load Accuracy	±1% of indicated load
Crosshead Speed	0.01 – 500 mm/min (variable)
Load Measurement	Electronic load cell
Extension Measurement	Encoder / Optional extensometer
Control	Digital / PC Controlled
Software	Data acquisition, graphing, reporting
Power Supply	230V AC, Single Phase
Standards Compliance	IS 1608, ASTM E8, ISO 6892, ASTM D638
Country of Origin	Made in India