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## **HYDRAULIC COMPUTERIZED UTM AZA1009**

The AZA1009 Hydraulic Computerized Universal Testing Machine (UTM) is a heavy-duty, high-precision testing system engineered for performing tensile, compression, bending, and shear tests on a wide range of materials including metals, concrete, composites, and structural components.

Powered by a servo-hydraulic loading system and advanced closed-loop computerized control, the AZA1009 delivers highly accurate, repeatable, and standards-compliant results. It is ideally suited for industrial quality control, infrastructure projects, steel plants, automotive and aerospace laboratories, and advanced research institutions.

Designed for high-capacity testing and continuous operation, the system combines robust mechanical construction with intelligent software-driven testing, ensuring reliability and efficiency in demanding environments.

### **Key Features**

- High-force hydraulic loading for stable and smooth operation
- Closed-loop servo control for load, displacement, and strain
- Real-time PC-based data acquisition and graphical analysis
- Automated test execution and report generation
- Compatibility with extensometers and strain measurement devices
- Multi-test functionality: tensile, compression, flexural, and shear





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**TECHNICAL SPECIFICATION**

<b>Parameter</b>	<b>Specification</b>
Model	AZA1009
Machine Type	Hydraulic Computerized UTM
Loading System	Servo-Hydraulic
Force Capacity	100 kN – 2000 kN (Customizable)
Test Space	Single / Dual (Tension & Compression)
Control System	PC-Based Closed-Loop Servo Control
Load Measurement	High-Accuracy Electronic Load Cell
Displacement Measurement	High-Resolution Encoder
Speed Range	0.001 – 500 mm/min
Power Supply	415 V, 50 Hz, 3-Phase
Machine Dimensions	Approx. 1200 × 800 × 2500 mm
Machine Weight	Approx. 1500 kg
Country of Origin	Made in India

**Standard Compliance**

- ASTM E8 / E8M – Tensile Testing of Metals
- ASTM A370 – Mechanical Testing of Steel Products
- ASTM C39 – Compressive Strength of Concrete
- ISO 6892-1 – Metallic Tensile Testing
- ISO 7438 – Bend Testing of Metals