



**UNIVERSE**

## **AUTOMATIC CEMENT COMPRESSION & FLEXURE TESTING MACHINES AZA0817**

The AZA0817 Fully Automatic Compression & Flexure Testing Machine is a dual-purpose, high-precision system designed to evaluate the compressive and flexural strength of cement cubes and prism/beam specimens.

Engineered for fully automated operation, the system incorporates an advanced touchscreen controller, programmable loading rates, real-time data acquisition, and digital result storage, ensuring highly accurate and repeatable testing.

Built with a rigid steel frame and precision hydraulic system, the AZA0817 delivers long-term reliability and consistent performance, making it ideal for cement plants, QA/QC laboratories, research institutions, and educational facilities.

### **Key Features**

- Compressive strength testing of cement cubes (70.6 mm)
- Flexural strength testing of cement prisms/beams
- Quality control in cement manufacturing plants
- Construction material testing laboratories
- Academic and research institutions
- Civil engineering quality assurance programs





## Standards Compliance

- IS 516
- IS 4031
- ASTM C109
- ASTM C348

## Product Features & Benefits

- Fully Automated Testing

Eliminates operator dependency and ensures repeatable results.

- Dual Testing Capability

Performs both compression and flexural strength tests in a single system.

- Programmable Load Control

Load rates can be set as per IS and ASTM standards.

- Advanced Touchscreen Interface

User-friendly control with real-time graph visualization.

- High-Precision Hydraulic System

Ensures smooth, accurate, and stable load application.

- Automatic Data Logging & Reporting

Stores peak load, generates reports, and supports digital export.

- Robust Structural Design

Rigid frame minimizes deformation and enhances accuracy.

- Comprehensive Connectivity

Supports USB, RS232, and printer integration.

- Enhanced Safety Features

Includes overload protection and emergency stop mechanism.

- Low Maintenance Operation

Designed for long service life with minimal upkeep.



## TECHNICAL SPECIFICATION

Parameter	Details
Model	AZA0817
Equipment Type	Compression & Flexure Testing Machine
Operation	Fully Automatic
Control System	Touchscreen Digital Controller
Test Modes	Compression & Flexure
Frame Construction	Heavy-Duty Steel Frame
Hydraulic System	Precision Hydraulic Loading
Power Supply	220-240V AC, 50 Hz

### 4.2 Load Capacity

Parameter	Details
Compression Capacity	100 – 200 kN (Customizable)
Flexure Capacity	10 kN (or as required)
Load Application	Fully Automatic, Programmable



## TECHNICAL SPECIFICATION

### 4.3 Dimensions & Weight

Parameter	Details
Dimensions	Customizable based on configuration
Weight	Approx. 350 – 550 kg

### 4.4 Functional Specifications

Feature	Description
Display	Digital Display with Real-Time Graph
Data Output	USB, RS232, Printer Compatible
Data Logging	Automatic Storage of Test Results
Safety	Overload Protection & Emergency Stop
Compatibility	Cement Cubes & Prism/Beam Specimens