



UNIVERSE FLEXURE TESTING MACHINE AZA1135

The Azalab Flexure Testing Machine (AZA1135) is designed for precise determination of the flexural (bending) strength of concrete beams. Built in compliance with IS 516, BS 1881, and ASTM C78, the system ensures accurate and repeatable results for laboratories, construction sites, and research facilities.

Featuring a compact, high-rigidity steel frame and a double-acting hydraulic system, the AZA1135 provides smooth load application and consistent performance. The integrated self-aligning roller assembly ensures correct specimen positioning, enhancing test reliability.

Key Features

Standards Compliant

- Meets IS 516, BS 1881, and ASTM C78 requirements

High Accuracy Measurement

- Bourdon tube load gauge calibrated for precise readings

Robust & Portable Design

- Lightweight yet rigid steel frame for lab and site use

Efficient Hydraulic System

- Double-acting pump with automatic piston return

Self-Aligning Rollers

- Ensures proper specimen placement and load distribution

Flexible Testing Capability

- Supports multiple beam sizes with spacers

Upgradeable Display

- Analog dial with optional digital indicator





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TECHNICAL SPECIFICATIONS

Feature	Description
Model No.	AZA1135
Standards	IS 516, BS 1881, ASTM C78
Load Capacity	100 kN (10,000 kgf)
Load Gauge	Bourdon tube (0–100 kN × 0.5 kN)
Calibration	NCCBM-certified proving ring
Frame	High-rigidity steel
Pump Type	Double-acting hydraulic with retraction spring
Loading Mechanism	Downward piston movement
Roller Assembly	Self-aligning with spacers
Operation	Manual (motorized optional)
Display	Analog dial (digital optional)

Supported Specimen Sizes

- 100 × 100 × 500 mm beams
- 150 × 150 × 700 mm beams



UNIVERSE AVAILABLE MODEL

Model No.	Capacity	Operation	Display
AZA-FTM100-M	100 kN	Manual Pump	Analog Dial
AZA-FTM100-D	100 kN	Manual + Digital	Digital Indicator

