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FLEXURAL FRAME 100 KN AZA1137

The Azalab Flexural Frame (AZA1137) is a precision-engineered system designed for determining the flexural (bending) strength of concrete beams, tiles, slabs, and paving blocks.

With a 100 kN (10-ton) capacity and a rigid two-column or four-column steel frame, the machine ensures minimal deflection and highly accurate, repeatable results. Integrated with a high-accuracy load cell and digital/PC-based measurement system, the AZA1137 is ideal for laboratories, R&D facilities, and quality control environments requiring advanced testing capability.

Key Features

100 kN High-Capacity Frame

- Suitable for a wide range of flexural testing applications

Rigid Structural Design

- Available in two-column or four-column configurations

Advanced Load Measurement

- High-accuracy load cell with digital indicator or PC interface

Multiple Loading Methods

- Supports third-point and center-point loading

Wide Specimen Compatibility

- Suitable for beams, tiles, slabs, and paving blocks

Flexible Operation Modes

- Manual, semi-automatic, and servo-controlled options

Standards Compliant

- Meets ASTM, EN, and IS testing requirements





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TECHNICAL SPECIFICATIONS

Feature	Specification
Model No.	AZA1137
Load Capacity	100 kN (10 tons)
Frame Type	Two-Column / Four-Column
Span Adjustment	100 mm – 800 mm
Loading Method	Third-point / Center-point
Load Measurement	Load cell ($\pm 0.5\%$ FS accuracy)
Display Options	Digital Indicator / PC Software
Power Pack	Manual / Semi-Automatic / Servo-Controlled
Specimen Types	Beams, tiles, slabs, paving blocks
Standards	ASTM C78, C293, EN 12390-5, IS 516

Compliance Standards

- ASTM C78 – Third-point loading method
- ASTM C293 – Center-point loading method
- EN 12390-5 – Flexural strength of concrete
- IS 516 (Part 5/Sec 1) – Flexural strength testing



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TECHNICAL SPECIFICATIONS

Model No.	Capacity	Operation Mode	Display
AZA1137-M	100 kN	Manual Power Pack	Digital Indicator
AZA1137-SA	100 kN	Semi-Automatic	Digital Indicator
AZA1137-SC	100 kN	Servo-Controlled	PC Software

