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HAND OPERATED FLEXURAL TESTING MACHINE 250 KN AZA1136

The Azalab Hand Operated Flexural Testing Machine (AZA1136) is a rugged and precision-built system designed for determining the flexural strength of concrete beams.

With a 250 kN class load frame and manual hydraulic operation, this machine delivers accurate and repeatable results without requiring electrical power—making it ideal for field testing, site laboratories, and resource-constrained environments.

The system incorporates a heavy-duty lead screw for daylight adjustment and a retraction spring for automatic piston return, ensuring efficient and smooth testing operations.

Key Features

Heavy-Duty 250 kN Frame

- Robust structure ensuring stability and long service life

Manual Hydraulic Operation

- Fully hand-operated—no electrical dependency

High Accuracy Measurement

- Bourdon-type pressure gauge with clear readability

Standards Compliant

- Conforms to IS 516, BS 1881, and ASTM C78

Adjustable Daylight System

- Lead screw mechanism for accommodating different beam sizes

Efficient Operation

- Built-in retraction spring for automatic piston reset





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TECHNICAL SPECIFICATIONS

Parameter	Description
Model No.	AZA1136
Machine Type	Hand Operated Flexural Testing Machine
Frame Capacity	250 kN (Class)
Load Gauge Capacity	100 kN
Least Count	0.5 kN
Ram Diameter	82 mm
Ram Travel	50 mm
Maximum Pressure	200 kg/cm ²
Gauge Diameter	200 mm (Bourdon Type)
Horizontal Clearance	210 mm
Vertical Daylight	160 mm (Adjustable)



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TECHNICAL SPECIFICATIONS

Load Frame Height	850 mm
Weight	Approx. 150 kg
Lead Screw	Yes
Operation	Manual Hydraulic

Supported Specimen Sizes

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

