

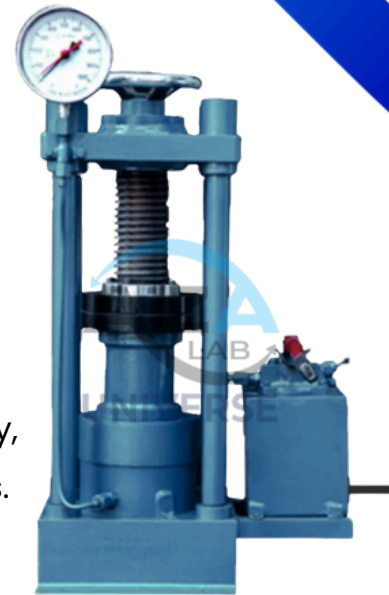


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COMPRESSION TESTING MACHINE (CHANNEL TYPE LOAD FRAME) HAND OPERATED AZA1133

The Azalab Density Apparatus (AZA1132) is a precision-engineered system designed for determining the density of both fresh (plastic) and hardened (cured) concrete in accordance with IS 1199 and ASTM C642.

Density is a critical parameter influencing concrete strength, durability, and overall structural performance. The AZA1132 enables accurate evaluation across all stages of concrete—from fresh mix verification to hardened specimen assessment—ensuring consistency, quality, and compliance in construction and laboratory environments.



Key Features

Heavy-Duty Channel Frame

- High rigidity with minimal deformation under load

Standards Compliant

- Conforms to IS 516 and BS 1881

Wide Capacity Range

- Available from 50 kN to 2000 kN

Precision Platens

- Hardened, ground, and mirror-polished for uniform load transfer

Manual Hydraulic Operation

- Controlled loading via central hydraulic jack and lead screw

Self-Aligning System

- Spherical seat ensures automatic specimen alignment

Versatile Testing Capability

- Suitable for cubes, cylinders, bricks, blocks, and tiles



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TECHNICAL SPECIFICATIONS

Feature	Description
Model Series	AZA1133
Compliance	IS 516, BS 1881
Capacity Range	50 kN – 2000 kN
Frame Type	C-Channel Welded Structure
Operation	Hand Operated
Hydraulic System	Centrally mounted manual hydraulic jack
Load Application	Precision lead screw mechanism
Upper Platen	Fixed with spherical seating arrangement
Lower Platen	With centering pin and alignment grooves
Platen Finish	Hardened, machined, mirror-polished
Platen Shape	Rectangular (square/circular optional)
Display	Analog dial gauge (digital optional)



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AVAILABLE MODEL

Model No.	Capacity	Frame Type	Operation	Gauge Type
AZA1133-050	50 kN	Channel Type	Hand Operated	Analog
AZA1133-100	100 kN	Channel Type	Hand Operated	Analog
AZA1133-1000	1000 kN	Channel Type	Hand Operated	Analog / Digital Optional
AZA1133-2000	2000 kN	Channel Type	Hand Operated	Analog / Digital Optional

