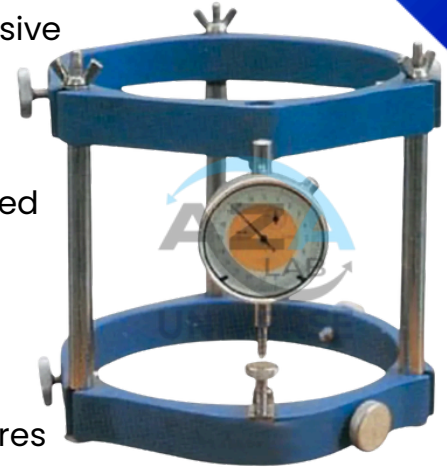




UNIVERSE

LONGITUDINAL COMPRESSOMETER AZA1172

The AZA-LAB Longitudinal Compressometer (AZA1172) is a precision mechanical instrument designed for accurate measurement of axial (longitudinal) deformation in concrete cylinders during compressive loading. Manufactured in compliance with ASTM C469, this instrument is essential for determining the modulus of elasticity and for supporting Poisson's ratio calculations when used alongside a lateral extensometer. It provides high-resolution deformation data, enabling reliable stress-strain analysis of hardened concrete. Widely used in material testing laboratories, research institutions, and QA/QC environments, the AZA1172 ensures repeatable, accurate, and standards-compliant measurements for advanced concrete characterization.



Key Applications

- Determination of modulus of elasticity of concrete
- Stress-strain curve development
- Poisson's ratio evaluation (with lateral extensometer)
- Concrete mix design validation and QA/QC testing
- Civil engineering research and laboratory studies
- Academic and training applications

Compliance & Standards

ASTM C469 – Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression



UNIVERSE

TECHNICAL SPECIFICATIONS

Parameter	Specification
Model No.	AZA1172
Product Type	Longitudinal Compressometer
Standard Compliance	ASTM C469
Specimen Size	100 mm & 150 mm dia × 300 mm height
Gauge Length	200 – 250 mm (adjustable)
Measurement Accuracy	±0.002 mm
Gauge Type	Mechanical dial (Digital / LVDT optional)
Frame Material	Aluminum alloy (SS optional)
Mounting Method	Clamping rings / threaded studs
Weight	Approx. 2 – 3 kg
Accessories	Calibration block, carry case, clamps
Application	Axial strain measurement