



UNIVERSE INTEGRAL PROVING RINGS AZA0931

The AZA0931 Integral Proving Ring from Azalab is a high-precision force calibration instrument designed for the verification and calibration of force-measuring systems used in material testing machines.

Widely utilized across civil engineering, metallurgy, and material testing laboratories, the AZA0931 ensures accurate, repeatable, and standards-compliant force measurements. It is an essential reference device for calibrating Universal Testing Machines (UTMs), Compression Testing Machines (CTMs), spring testers, and load cells, particularly in environments where measurement accuracy directly impacts safety, compliance, and product quality.

Key Features

- Manufactured from high-grade, heat-treated alloy steel
 - Precision machining for uniform stress distribution
 - High elastic stability with minimal hysteresis and negligible permanent set
 - Integral high-sensitivity dial gauge (standard)
 - Optional electronic transducer with digital readout
 - Wide force capacity range from low to ultra-high loads
 - Individually NABL-calibrated with full traceability
- Robust construction for laboratory and industrial environments
 - Supplied with protective carrying case
 - Compatible with UTMs, CTMs, and calibration rigs





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TECHNICAL SPECIFICATION

Parameter	Description
Model	AZA0931
Product Type	Integral Proving Ring
Measurement Principle	Elastic deformation under load
Measurement Mode	Compression and/or Tension
Material	Heat-treated high-grade alloy steel
Capacity Range	5 kN to 3000 kN (higher on request)
Deflection Indicator (Std.)	Dial gauge (LC: 0.002 mm / 0.001 mm)
Deflection Indicator (Opt.)	Electronic transducer with digital display
Accuracy Class	Class 1 / Class 0.5 (ISO 376)
Calibration	Individually calibrated



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TECHNICAL SPECIFICATION

Parameter	Description
Traceability	NABL-traceable
Construction	Rigid, compact, high stability
Accessories	Carrying case, calibration certificate
Standards	IS 4169, ASTM E74, ISO 376
Origin	Made in India

Standards Compliance

The AZA0931 is manufactured and calibrated in accordance with:

- IS 4169:1982 (Reaffirmed 2021) – Proving Rings
- ASTM E74 – Calibration of Force-Measuring Instruments
- ISO 376:2011 – Calibration of force-proving instruments

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