HOEK TRIAXIAL AZA1008

The AZA1008 Hoek Triaxial Rock Testing System is an advanced laboratory apparatus designed for performing triaxial compression tests on rock core specimens under controlled confining pressure conditions.

This system enables accurate simulation of in-situ underground stress environments, allowing precise evaluation of rock strength, deformation characteristics, elastic properties, and failure behavior. It is an essential solution for geotechnical engineering, mining, tunneling, dam construction, and research laboratories requiring high-level rock mechanics analysis.

Engineered with a high-strength stainless steel pressure vessel and precision sealing components, the AZA1008 ensures reliable, repeatable, and standards-compliant performance under high-pressure conditions.

Key Features

- Designed for high-precision triaxial testing of intact rock cores
- Supports high confining pressures for realistic stress simulation
- Heavy-duty stainless steel pressure chamber
- Advanced sealing system using neoprene / nitrile membranes
- Low-friction piston assembly for accurate load transmission
- Compatible with manual and servo-controlled compression frames
- Multiple ports for confining pressure, axial loading, and drainage
- Ready for integration with LVDTs, strain gauges, and DAQ systems
- Fully compliant with international testing standards

TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA1008
Sample Diameter	38 mm (NX), 50 mm, 54 mm (Optional)
Confining Pressure Range	Up to 60 MPa
Cell Material	High-Grade Stainless Steel
Sealing System	Neoprene / Nitrile Membranes
Piston Travel	25 – 50 mm (Model Dependent)
Ports	Axial Load, Confining Pressure, Drainage
Compatibility	Manual & Servo-Controlled Load Frames
Data Acquisition	LVDTs, Strain Gauges, Digital Indicators
Standards Compliance	ASTM D7012, ISRM Suggested Methods
Approx. Weight	20 – 30 kg

Standard Compliance

- ASTM D7012 – Compressive Strength and Elastic Moduli of Rock
- ISRM Suggested Methods – Advanced Rock Testing Standards