TRIAXIAL CELL AZA0903

The AZA0903 Triaxial Cell is a precision-engineered geotechnical testing apparatus designed to evaluate the shear strength and mechanical behavior of soils under controlled in-situ stress conditions. It is a core component for advanced laboratory testing, supporting Unconsolidated Undrained (UU), Consolidated Undrained (CU), and Consolidated Drained (CD) triaxial tests.

Featuring a transparent pressure chamber combined with high-quality stainless steel components, the AZA0903 enables accurate simulation of field stress environments encountered in foundations, embankments, pavements, and earth-retaining structures. It delivers reliable, repeatable, and standard-compliant results for both professional and research laboratories.

Key Features & Benefits

- Supports UU, CU, and CD triaxial tests
- Transparent chamber for visual observation during testing
- High-pressure capability for realistic stress simulation
- Leak-proof sealing system using membranes and O-rings
- Compatible with manual and automated systems
- Suitable for advanced geotechnical research and testing

Standards Compliance

- ASTM D4767 – Consolidated Undrained Triaxial Test
- ASTM D2850 – Unconsolidated Undrained Test
- BS 1377 Part 7 – Triaxial Shear Tests
- IS 2720 (Part 11) – Shear Strength of Soils

TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0903
Test Type	Triaxial Shear (UU, CU, CD)
Sample Diameter Options	38 mm, 50 mm, 75 mm, 100 mm
Chamber Material	Transparent Acrylic / Polycarbonate
End Plates & Piston	Stainless Steel
Piston Stroke	50 – 100 mm (model dependent)
Maximum Pressure	Up to 10 bar (1 MPa)
Ports	Confining, Drainage, Pore Pressure
Accessories Included	Pedestal, Top Cap, Porous Stones, Membranes
Compatibility	Load frames, pressure panels, DAQ systems
Compliance	ASTM D4767, ASTM D2850, BS 1377 Part 7, IS 2720