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## **LOAD FRAME, MOTORISED, 30 SPEEDS AZA0909**

The AZA0909 Motorised Load Frame (30 Speeds) from Azalab is a versatile, high-precision loading system engineered for applying controlled vertical loads across a wide range of geotechnical soil tests.

Designed for accuracy, stability, and long-term laboratory performance, the unit supports essential tests including CBR, UCS, Triaxial (UU, CU, CD), and Consolidation (Oedometer).

Equipped with a 30-speed gearbox and motorised screw drive, the AZA0909 provides precise control over displacement rates, ensuring compliance with multiple international testing standards. Its smooth, vibration-free operation guarantees repeatable and reliable test results across diverse loading requirements.



### **Key Features & Benefits**

- 30-speed gearbox for precise control across multiple tests
- Smooth and vibration-free motorised operation
- Compatible with CBR, UCS, triaxial, and consolidation tests
- Reversible drive for quick return movement
- High rigidity ensures minimal frame deflection
- Supports both manual and digital instrumentation
- Built for continuous laboratory use

### **Standards Compliance**

- ASTM D1883 – CBR Test
- ASTM D2166 – UCS Test
- ASTM D4767 – Triaxial Test
- ASTM D2435 – Consolidation Test
- IS 2720 (Part 10, 12, 29) – Soil Testing
- BS 1377 Part 4 & 7 – CBR and Shear Tests



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**TECHNICAL SPECIFICATION**

<b>Feature</b>	<b>Specification</b>
Model	AZA0909
Type	Motorised Load Frame with Gear Drive
Number of Speeds	30 selectable speeds
Speed Range	Approx. 0.05 – 60 mm/min
Maximum Load Capacity	50 kN / 100 kN (model dependent)
Vertical Clearance	Approx. 800 mm (adjustable)
Horizontal Clearance	Approx. 300 mm
Drive System	Reversible motorised screw drive
Motor Type	Induction motor with gearbox
Load Measurement	Proving Ring / Load Cell (optional)
Displacement Measurement	Dial Gauge / Digital LVDT (optional)
Frame Construction	Heavy-duty powder-coated steel
Power Supply	220–240 V AC, 50 Hz
Compliance	ASTM, IS, BS Standards