LABORATORY VANE SHEAR APPARATUS (MOTORISED) AZA0920

The AZA0920 Motorised Laboratory Vane Shear Apparatus from Azalab is a high-precision instrument designed for the determination of undrained shear strength (c_u) and soil sensitivity of cohesive soils such as clays and silts.

The motorised drive system ensures a constant and uniform rate of vane rotation, eliminating operator-induced variability and delivering highly accurate, repeatable, and standard-compliant results. This makes the AZA0920 an essential tool for geotechnical laboratories, research institutions, and civil engineering applications requiring reliable soil strength parameters.

Key Features

- Motorised rotation ensures constant shear rate as per standards
- High accuracy and repeatability compared to manual systems
- Calibrated torsion spring system for precise torque measurement
- Multiple interchangeable springs for different soil strength ranges
- Adjustable vane head for accurate positioning and minimal disturbance
- Supplied with standard cruciform vane sets
- Optional digital torque readout for enhanced precision
- Robust, laboratory-grade construction
- Delivered in a sturdy wooden carrying/storage case

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TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0920
Product Type	Laboratory Vane Shear Apparatus
Operation	Motorised
Power Supply	230 V AC, Single Phase
Rotation Rate	Constant, typically 1/60 RPM
Torque Measurement	Calibrated torsion spring system
Springs Supplied	Set of 4 (different torque ranges)
Readout	Dial gauge with peak pointer (digital optional)
Vane Head	Adjustable via lead screw
Vane Blades	Standard cruciform vanes (multiple sizes)
Sample Compatibility	Prepared samples / sampling tubes

TECHNICAL SPECIFICATION

Parameter	Specification
Construction	Heavy-duty steel
Accessories	Springs set, vane set, sample container, calibration chart, wooden case
Standards	IS 2720 (Part 30), ASTM D4648, BS 1377-7
Country of Origin	India

Standards Compliance

The AZA0920 is designed in accordance with:

- IS 2720 (Part 30) – Laboratory Vane Shear Test
- ASTM D4648 / D4648M – Miniature Vane Shear Test
- BS 1377 (Part 7) – Shear Strength Tests

These standards ensure accuracy, consistency, and global acceptance of results.