



UNIVERSE

AUTOMATIC MARSHALL STABILITY TEST MACHINE AZA0954

The AZA0954 Automatic Marshall Stability Test Machine from AZALAB is a fully automated, high-precision laboratory system designed for the determination of Marshall Stability and Marshall Flow of bituminous mixtures.

As an advanced evolution of conventional Marshall testers, the AZA0954 delivers superior accuracy, repeatability, and digital data management, making it indispensable for modern civil engineering laboratories, highway authorities, asphalt plants, and research institutions.

It serves as a core instrument in Marshall Mix Design, enabling precise evaluation of asphalt mix performance under simulated loading conditions.

Key Functional Features

- Heavy-duty rigid load frame

Two-column / four-column structure for minimal deflection

- Precision geared motor drive system

Smooth and consistent loading

- High-strength Marshall breaking head

Designed for standard specimens

- User-friendly control panel

Intuitive operation with digital interface

- Safety systems:

1. Emergency stop
2. Overload protection
3. Controlled shutdown





UNIVERSE

TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0954
Test Method	Marshall Stability & Flow (Automatic)
Load Capacity	50 kN / 100 kN
Loading Rate	50.8 mm/min (automatic)
Load Measurement	Electronic load cell
Flow Measurement	LVDT / digital sensor
Flow Range	0–25 mm
Resolution	0.01 mm
Specimen Size	101.6 mm (4 inch)
Drive System	Geared motor
Data Display	Digital
Software	Optional PC connectivity



UNIVERSE

TECHNICAL SPECIFICATION

Parameter	Specification
Temperature Conditioning	External bath/oven
Standard Test Temp	60°C
Power Supply	230V AC, 50 Hz
Frame	Heavy-duty steel

Standards & Compliance

The AZA0954 conforms to:

- ASTM D6927 – Marshall Stability & Flow
- AASHTO T245 (method alignment)
- IS 2720 (Part 10)
- MoRTH & IRC specifications (India)

UNIVERSE