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AUTOMATIC COMPACTOR FOR BITUMINOUS MIXES

AZA0963

The AZA0963 Automatic Compactor for Bituminous Mixes is a precision laboratory instrument designed for the controlled and repeatable compaction of asphalt specimens in accordance with the Marshall Mix Design method.

It is an essential tool for civil engineering laboratories, highway authorities, asphalt producers, and research institutions, enabling accurate determination of key mix design parameters such as Marshall Stability, Flow, density, air voids, VMA, and optimum bitumen content.

By simulating field compaction conditions, the AZA0963 ensures laboratory specimens closely replicate in-situ pavement behavior, resulting in reliable and consistent mix design outcomes.

Key Functional Features

- Fully Automated Operation

Eliminates manual compaction

Reduces operator fatigue and human error

- Precision Compaction Control

Fixed hammer weight and drop height

Ensures consistent energy application





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- Digital Control System

Programmable blow counter

Automatic stop after completion

- Uniform Compaction Mechanism

Automatic mould rotation

Ensures even density throughout specimen

- Heavy-Duty Frame

Rigid steel construction

Minimizes vibration and enhances durability

- Laboratory-Optimized Design

Safe, efficient, and suitable for continuous testing

Performance Benefits

- High Reproducibility
 - Ensures consistent and repeatable test results
 - Improved Accuracy
 - Eliminates operator variability
 - Enhanced Productivity
 - Faster testing compared to manual compactors
 - Operator Safety
 - Reduces physical strain and fatigue
- Standards Compliance
 - Meets international and national testing standards
 - Reliable Mix Design Output
 - Supports durable and high-performance pavement construction



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TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0963
Product Type	Automatic Marshall Compactor
Compaction Method	Impact (Marshall)
Hammer Weight	4.536 kg ± 9 g
Drop Height	457.2 mm ± 1.5 mm
Hammer Face Diameter	98.4 mm
Mould Compatibility	101.6 mm (4-inch) Marshall mould
Blow Counter	Digital, programmable
Auto Shut-Off	Yes
Mould Rotation	Automatic
Drive System	Electric motor
Frame	Heavy-duty steel
Operation	Fully automatic
Compliance	ASTM D6925, AASHTO T245, IRC / IS