

Rotary Material Compactor

This rotary material compactor is designed for compacting materials using a rotating motion. It has a durable construction and a control panel for accurate operation, suitable for applications needing controlled compaction.



Overview

Precision Rotary Compactor

This rotary compactor is a specialized shaping machine designed to create cylindrical test samples of hot-mix bituminous mixtures. Utilizing kneading methods under constant pressure, it simulates actual road material volume and properties for accurate laboratory analysis. The instrument is engineered to meet rigorous international standards, ensuring consistent performance for material testing applications.

Compliance & Standards

Compliance Standards

SUPERPAVE, AASHTO R35, AASHTO PP35-98, FHWA

Performance Metrics

Key Compaction Metrics

30 RPM

Rotation Speed

1.25 °

Calibrated Compaction Angle

370 kg

Net Weight

Technical Specifications

Pressure Specifications

Parameter	Value
Pressure Range	100 - 1000 KPa
Pressure Accuracy (1-5 times)	< ±60 KPa
Pressure Accuracy (>5 times)	< ±18 KPa

Rotation Settings

- Positive rotation: 0-1000 times
- Negative rotation: 0-500 times
- Motor speed: 1800 RPM

Geometry & Displacement

- Compaction angle range: 0.5° - 2.0°
- Angle increment: 0.01°
- Angle accuracy: < 0.01°
- Displacement range: 0 - 300 mm
- Displacement accuracy: < 0.01 mm

Physical Attributes

Physical Dimensions

- Total height: 190 cm
- Unit weight: 370 kg
- Shipment weight: 410 kg
- Mold weight: 7.4 kg