



The Gyratory Compactor is used to simulate and reproduce the real compaction conditions under the actual road paving operation, so as to determine the compaction properties of the asphalt.

The Gyratory Compactor realizes this compaction in a fully automatic manner by combining the rotary action and the vertical force applied by the mechanical head.

Use high-hardness and high-quality steel as the frame to ensure precise angle control. Load is applied by an electro-pneumatic cylinder, servo-controlled by a precision pressure regulator; the height is measured by a linear transducer. Gyratory motion is generated by an eccentric high precision system allowing an easy set up with precision and constant angle of gyration. The measurement results can be used to analyze the volume and mechanical properties of the asphalt mixture.

FEATURES

- Use high-hardness and high-quality steel as the frame to ensure precise angle control.
- Electro-pneumatic action with servo-controlled regulator.
- The control system can be directly connected to the computer, through the port the computer can display various curves and charts, and realize the undisturbed connection with the touch screen, and jointly control the equipment.
- The touch-screen icon interface allows an easy set up of the parameters and immediate

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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automatic execution of the test, data acquisition, processing, graphics and file.

- 1 USB port
- Integrated built-in stripper.
- Heating and heat preservation (optional) can be carried out on the rotating work area of the specimen.
- It can be used for compaction test of emulsified asphalt and cold recycled mixture

TECHNICAL PARAMETERS

- Specimen height range : 50-170mm
- Displacement range : 0-220mm
- Displacement accuracy : less than 0.10mm
- Rotation angle : $0^{\circ}\sim 2^{\circ}+0.02^{\circ}$ adjustable, factory setting is $1.16 \pm 0.02^{\circ}$ (internal angle), larger angle can be customized
- Vertical load : 0-1000Kpa $\pm 3\%$ adjustable, the factory setting is 600Kpa $\pm 2\%$, and higher pressure can be customized.
- Rotation speed : 30+0.3r/min, continuously adjustable speed can be customized.
- Number of gyratory : 0-999
- Mould : $\varnothing 150\text{mm}$, (@100mm can be customized)
- Power : 220~240V 50/60Hz 1000W
220~240V 50/60Hz 1Ph
- Laboratory air compressor
- Outside size(mm) : 900X700X1800(LXWXH)
- Package Dimension(mm) : 1000X800X1950(LXWXH)
- Mould weight : 7.5 kg
- Weight : 400 kg

ACCESSORIES

- Laboratory air compressor
- One dia. 150mm cylinder mould
- Height calibration block
- Air pipe 5m

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HIGHLIGHTS

The importance of precise gyrotory angle has been widely recognised as essential. The measurement of the internal angle represents, in practice, the most accurate method of calibration. This method comprises two individual values: angle between cylinder and top plate and angle between cylinder and bottom plate.

The average of these two values is taken as the "internal angle". To date the internal angle calibration of gyrotory compactors has been considered a difficult task leading to wide variations in results even between machines of the same brand.

The device fully satisfies the verifications requirements to measure the internal angle conforming to EN 12697-31 Annex B.

It can also be used on any other makes of gyrotory compactors.

The Internal angle measurement apparatus ILS can be used as part of your SuperPave performance based testing program

FEATURES

- It is suitable for the accurate measurement and calibration of the internal angle of the rotary compactor, and can be used for the calibration of the frame stability coefficient required by the specification.
- The internal angle of the rotary compactor can be measured quickly and accurately, and the measurement time is less than 30 minutes.
- No need to use asphalt mixture, just place the inner angle calibrator in the mold before measurement. The inner angle calibrator can also simulate the shear force generated during the compaction process by itself.
- Convenient and quick angle adjustment and can be calibrated quickly.
- Display the detailed angle of each circle, see the waveform diagram for details.
- Real-time changes in rotation speed can be observed.
- The power will be automatically cut off after no operation for more than five minutes, extending the battery life time. Battery powered, rechargeable.

SPECIFICATION

- Maximum measurement angle: 2.2°
- Power supply method: battery powered (rechargeable)
- Reproducibility of 0.01°
- Level measurement data, fitting to all Standards
- Overall dimension: Ø150x125mm
- Weight: about 6kg

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