GYRATORY COMPACTOR HTHY-0736

STANDARD: AASHTO T312, EN 12697-31, ASTM D6925

This equipment is used to simulate and reproduce the real compaction conditions in actual road paving operations to determine the compaction characteristics of asphalt and to prepare cylindrical specimens that can be used to test the various properties of asphalt mixtures. The equipment adopts electric loading mode and does not require an external air compressor. During the compaction process, the specimen is simultaneously subjected to the rotary action and the vertical resultant force applied by a mechanical head, thereby simulating and reproducing the on-site compaction conditions during the paving process and ensuring the compaction quality of the specimen. The specimens are particularly suitable for the research, development and verification of new asphalt mixtures such as Superpave and SMA.

FEATURES

- The high-rigidity structural steel frame ensures the stability and anti-deformation ability of the equipment while optimizing the weight. It is an ideal choice for mobile laboratories or space-constrained environments.
- A coaxial high-precision pressure sensor (±0.1% FS) is used for control to ensure the accuracy and stability of the vertical compaction force.
- The internal angle of gyration is continuously adjustable from 0.7 ° to 1.4 ° to meet the requirements of different standards (default setting is 1.16°).
- The compaction height and compaction circles can be precisely controlled.
- The robust design, precise control and high-quality components ensure the high reliability and repeatability of the equipment in long-term continuous operation and large-scale sample testing.
- The high-performance electric actuator only requires a standard single-phase power supply, completely eliminating the need for bulky and noisy external air compressors, significantly reducing operating noise and improving the laboratory environment.
- 10-inch industrial-grade touch screen provides a clear and sensitive operation interface.
- During the compaction process, relevant curves such as "pressure-gyrations" and "height- gyrations" are displayed in real time to facilitate instant monitoring and process analysis.
- The equipment records complete data and supports USB export for subsequent analysis.
- The transparent glass door makes it easy to observe the compaction process while ensuring safe operation. It can be slid to facilitate the quick loading and unloading of the test mould.
- The integrated demoulding device can significantly simplify the sample demoulding process and improve efficiency (optional).
- Switch between EN, RU, ES, CN total four language.

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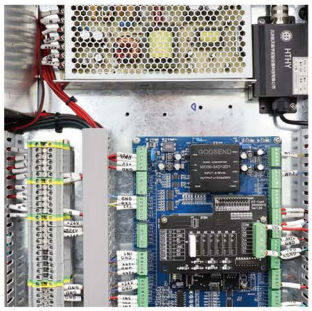
HTHY-0736

TECHNICAL SPECIFICATIONS

Loading method	Electric
Load capacity	25kN
Pressure sensor range	0~30kN
Pressure sensor accuracy	±0.1%FS
Specimen size	φ150mm×(90~200)mm φ100mm×(90~125)mm
Test termination conditions	Specimen height Number of gyrations
Speed of gyrations	30r/min
Number of gyrations	0~999
Range of internal angle	0.7° to 1.4°, default setting 1.16°
Data output	USB
Power supply	220V±10V 50Hz
Total power	1200W
Dimensions	450×615×1140mm
Weight	100kg



1 Displacement sensor can directly detect the position of the pressure plate, accurately and stably.
2 Servo motor drive ensures stable operation and high control precision.

ACCESSORIES

φ150mm test mould assembly (standard)

φ100mm test mould assembly (optional)

φ150mm permeable test mould assembly (optional)

HYBD-2 internal angle calibration device (optional)

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