

GYRATORY COMPACTOR



STANDARD

UNIEN 12697-10 UNIEN 12697-31 ASTM D6925 AASHTO T312

SINCE 2006

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The Gyratory Compactor HTHY XY170 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.

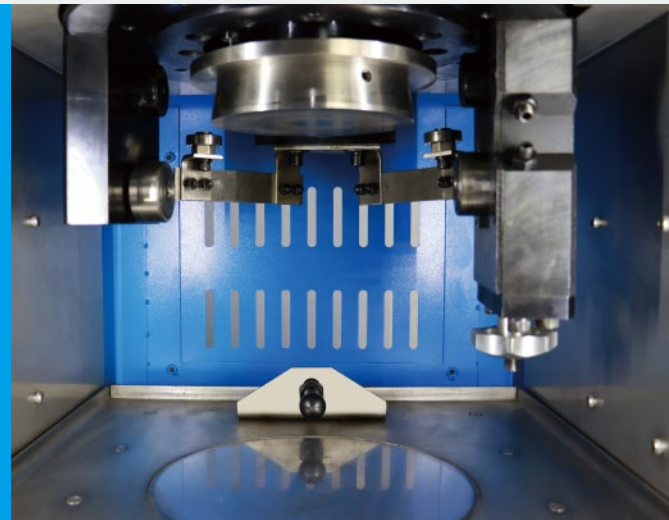
The Gyratory Compactor HTHY XY170 realizes this compaction in a fully automatic manner by combining the rotary action and the vertical force applied by the mechanical head.

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 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°~2°±0.02° adjustable, factory setting is 1.16°±0.02° (internal angle), larger angle can be customized
Vertical load	0~1000Kpa±3% adjustable, the factory setting is 600Kpa±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	∅150mm, (∅100mm can be customized)
Power	220~240V 50/60Hz 1000W
Laboratory air compressor	220~240V 50/60Hz 1Ph
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



HTHY-XY170 GYRATORY COMPACTOR
Produced by C-TECH LABORATORY EQUIPMENT CO., LTD. ZHUOZHOU TIANPENG INSTRUMENT MANUFACTURING CO., LTD.

Test System debugging Parameter setting Test data

Debugging Items

IO debugging Signal debugging
Motor debugging Return

Parameter setting Status code: 0

Pressure(kN) : 10.600 Pressure deviation(%) : 5
 Rotation numbers : 22 Angle deviation(°) : -0.052
 Rotation speed(rpm) : 30.0 Stop Height(mm) : 150.000
 Angle(°) : 1.160 Mould height(mm) : 270.000
 Mould diameter(mm) : 150 Down overtime(ms) : 6000
 Stop mode: Numbers Initial pressure(mV) : 1200
 Mixture weight(Kg) : 5.000 Max pressure(KN) : 13.000

Height correct Pressure correct Angle correct Error Reset Return

Data List Test time :

Number	pressure (kN)	speed (rpm)	height (mm)	density (g/cm3)

Carve chart
Clear list
Save Data
Open Data
Return

Save to USB progress bar(%) : 0