ASPHALT > SUPERPAVE

GYRATORY COMPACTOR

Code : A825



- Used to simulate and reproduce the real compaction conditions under actual road paving operations, hence determining the compaction properties of the asphalt.
- Such compaction is achieved in a fully automatic way, by combining the rotary action and the vertical resultant force applied by a mechanical head. The Compactor comprises a highly rigid steel frame ensuring excellent 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 rotation speed is controlled by an inverter through on board computer control.
- Using the proper perforated mould, the Compactor is able to run tests also on cold emulsified asphalt mix.
- The acquired results are also employed in the investigation of volumetric and mechanical characteristics of the asphalt mix.

- The touch-screen icon interface allows an easy set up of the parameters and an immediate automatic execution of the test, data acquisition andprocessing, graphics and file. A remote test control is available trough a dedicated software, provided in bundle.

STANDARDS

ASTM D6925 • EN 12697-10 • EN 12697-31 • AASHTO T312

TECHNICAL SPECIFICATIONS

- Compacted specimen size: dia 100 and 150 mm; height from 0 to 200 mm for both sizes.
- Mould dimensions: Internal dia100 and 150 mm; height 250 mm for both moulds.
- Gyratory angle: adjustable from 0 to 2,4°
- Number of cycles (gyratory): adjustable from 1 to 5000
- Gyration rate: adjustable from 5 to 60 work cycles/min (30 cycles/min requested by Standards)
- Vertical load on 150mm dia specimen: adjustable from 10 to 900 kPa (900 kPa with 9 bar compressor), (800 kPa with 8 bar compressor), (700 kPa with 7 bar compressor)
- Vertical load on 100 mm dia specimen: adjustable from 23 to 1500 kPa (with 7 bar compressor)
- The vertical load on the specimen is automatically controlled and adjusted by the electronic system.

ORDERING INFORMATION

Item Name	Item Code
GYRATORY COMPACTOR	A825A00XU