

TM 19

Servopac Gyrotory Compactor

ASTM D6307, AASHTO TP-4

Fully automated, is designed to compact asphalt mixes. Compaction achieved by the simultaneous action of static compression and the shearing action resulting from the mould gyrated through an angle about its longitudinal axis. The unit made with four column frame. Vertical stress measured by a load cell which accurately controlled during compaction. Gyrotory motion also servo-controlled enabling the gyrotory angle to be accurately controlled during compaction, irrespective of load and any compliance of the machine's components. The machine allows vertical stress, gyrotory angle and speed can be quickly modified from a hand-held control pendant or computer.

Specification:

Vertical force: 0-20kN +/- 100N

Gyrotory Angle: 0-3 +/- 0.02°

Gyrotory rate: 3 to 60 +/- 0.1 gyrations / min.

Minimum specimen height: 50mm

No. of gyrations: 0-999

Air supply capacity: min 5 litre / second

Operating pressure: 800-1000 kPa

Power: 220-240V, 50Hz, 1ph

Dimension: 770mm x 450mm x 1975mm approx

Weight: 400kg approx

The apparatus supplied complete with stand, specimen extractor, communication leads, wearing plates.



TM 20

Ductilometer

ASTM D113

For determination of bituminous ductility, which means, distance to which a briquette of molten bitumen can be extended under controlled condition, before breaking. The set consists of a moving carriage traveling along guide ways. The large long tank fitted with thermostat, heater, cooling coil for cool water circulation and pump. The carriage is driven by an electrical motor. The set is fully automatic function with a speed of mm/min, max. stroke is 1500mm. Tank outer made from stainless steel with fiberglass insulation. The set can accept up to 3 specimens simultaneously. Supplied without briquette mould and base plate. Power: 220-240V, 50Hz, 1ph. Dimension: 2145mm x 350mm x 420mm approx. Weight: 100kg approx.

TM 21/A

Ductilometer

Same as TM20, but equipped with incorporated refrigerating unit for keeping the water temperature at 5° C. Dimension: 2145mm x 350mm x 760mm approx. Weight: 135kg approx.

Accessories:

TM 20-1 Briquette mould, for specimen preparation.
Weight: 500gm approx.

TM 20-2 Briquette mould's base plate

