

Analog Marshall Stability Test Machine

Make: LabTek

Model: SUN-BT-001

Origin: India

Standards: EN 12697-34 | ASTM D1559 | AASHTO T245-T2833 | BS 598 |

NF P98-252-2 | DIN 1996

The machine can deliver measurement data for use with hot mixture consisting of asphalt or tar and aggregate up to 25.4 mm maximum size. The equipment has a bench top loading frame with a screw-driven modifiable crosshead.

Key Features

- 🍏 Precise speed
- 🍏 Maximum loading capacity of 50 kN
- 🍏 Single speed, bench top load frame
- 🍏 Geared screw jack and motor drive
- 🍏 Limit switch protection for both upward and downward movement

Supplied as Standard:

SUN-BT-001A Breaking head assembly

SUN-BT-001B 50 kN proving ring

SUN-BT-001C Dial gage

Optional Accessories

SUN-BT-001D Compaction mold

SUN-BT-001D Base plate

SUN-BT-001E Extension collar

SUN-BT-001F Compaction pedestal suitable for 4" dia specimen

SUN-BT-001G Compaction rammer 10 lb

SUN-BT-001H Sample ejector (hydraulic) for 4" dia specimen



Specifications:

Maximum vertical clearance: 470 mm

Minimum vertical clearance: 250 mm

Platen diameter: 133 mm

Horizontal clearance: 265 mm

Platen speed :50.8 mm/minute

Platen travel:25 mm

Rated power: 375 W

Weight: 60 kg

Dimension: (LxWxH) 550 x 400 x 870 mm

Automatic Marshall Stability Test Machine

Make: LabTek

Model: SUN-BT-002

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The 50 kN capacity Automatic Marshall Stability Test Machine is used to determine the maximum load and flow values of bituminous mixtures. The machine comprises of a robust and compact two column frame with adjustable upper cross beam. The unit is a bench mounting compression frame with motor and worm gear housed within the base unit. The speed of the lower platen can be adjusted between 6 mm/min to 60 mm/min using the data acquisition and control unit. For safety, the up and down travel of the lower platen is limited the use of limit switches. Rapid adjustment of the platen is controlled using the up and down buttons on the front panel of the machine. The machine can be hand operated by a lateral hand wheel for calibration purposes.

Main Features

- 🍏 Automatically calculates flow and stability values
- 🍏 Can make test with displacement and limited load control
- 🍏 Real time display of test graph.
- 🍏 CPU card with 32-bit Arm RISC architecture
- 🍏 Permanent storage capacity up to 10000 test results.
- 🍏 4 analog channels, 2 channels are active for marshall test
- 🍏 Programmable digital gain adjustment for load-cell, pressure transducers, strain-gauge based sensors, potentiometric sensors, voltage and current transmitters
- 🍏 1/256000 points resolution per channel
- 🍏 10 data per second sample rate for each channel
- 🍏 Ethernet connecting for computer interface
- 🍏 800x480 resolution 65535 color TFT-LCD industrial touchscreen
- 🍏 4 main function keys
- 🍏 Multi-language support
- 🍏 3 different unit system selection; kn, ton and lb
- 🍏 Real-time clock and date
- 🍏 Test result visualization and memory management interface



The Automatic Marshall Stability Test Machine is supplied complete with:

- 🍏 Load cell, 50 kn
- 🍏 Linear potentiometric displacement transducer with bracket, 25 x 0.001 mm
- 🍏 PC software
- 🍏 Connection cable
- 🍏 Hand wheel for manual control
- 🍏 Breaking head, 4

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