

**Product Name :**  
Automatic Marshall Stability Test Machine

**Product Code :**  
NLAB-BTMENLAB150006



**Description :**

Automatic Marshall Stability Test Machine

**Technical Specification :**

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.

Automatic Marshall Stability Test Machine

The Automatic Marshall Stability Test Machine is supplied complete with:

Load cell, 50 kn

Llinear potentiometric displacement transducer with bracket, 25 x 0.001 mm

PC software

Connection cable

Hand wheel for manual control

Breaking head, 4

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

800×480 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

Remote connection through ethernet

USB flash disc for importing test results and for firmware

USB printer support for inkjet and laser printers (ask for compatible models)

Camera support for real-time video recording during test (ask for compatible models)

Free of charge PC software for the test control and advanced report generation

## Naugralabequipments

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