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Product Name :

Automatic Marshall Stability Test Machine

Product Code :

SLE/CE/81



Science Lab
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Description :

Automatic Marshall Stability Test Machine (Product Code: SLE/CE/81) is a 50 kN bench-mounted compression frame used to determine the maximum load (stability) and flow values of bituminous mixtures in highway and civil engineering laboratories. Its data acquisition and control unit sets the platen speed from 6 to 60 mm/min, plots the test graph in real time and calculates stability and flow automatically. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, a laboratory equipment supplier in India.

Specifications

Parameter	Detail
Capacity	50 kN
Test	Maximum load (stability) and flow of bituminous mixtures
Frame	Compact two-column bench-mounting compression frame with adjustable upper cross beam; motor and worm gear housed in the base
Lower platen speed	Adjustable from 6 mm/min to 60 mm/min via the data acquisition and control unit
Platen controls	Up and down buttons on the front panel for rapid adjustment; limit switches restrict up and down travel for safety
Manual operation	Lateral hand wheel for calibration purposes
Control modes	Displacement control and limited load control
Results	Automatic calculation of flow and stability values; real-time display of the test graph
Processor	CPU card with 32-bit ARM RISC architecture
Memory	Permanent storage of up to 10000 test results
Analogue channels	4, of which 2 are active for the Marshall test
Sensor inputs	Programmable digital gain for load cells, pressure transducers, strain-gauge based sensors, potentiometric sensors, and voltage and current transmitters
Resolution	1/256000 points per channel
Sample rate	10 data per second for each channel
Product code	SLE/CE/81
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Marshall Stability Test Machine Used For?

The Marshall test is a standard step in designing bituminous paving mixes. Compacted cylindrical specimens made at different binder contents are conditioned and then loaded to failure at a const at peak binde