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Product Name :

Digital Penetrometer

Product Code :

SLE/CE/84



Description :

Digital Penetrometer (Product Code: SLE/CE/84) is a microprocessor-controlled bench instrument used to measure how far a test probe penetrates a sample, for example in bitumen penetration testing in highway and materials laboratories. It resolves penetration to 0.01 mm over a 0–50 mm range, moves automatically to the test start point and plots the penetration/time curve on a 6-inch touch screen. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Control	Microprocessor with 6-inch lateral touch screen display
Display	Penetration/time curve; up to 6 tests displayed simultaneously and averaged
Penetration range	0–50 mm
Penetration resolution	0.01 mm
Programmable penetration time	0–9999 s
Programmable delay time	0–999 s
Programmable reference positions for holder assembly	8
Start point	Reached automatically
Lighting	Integrated LED lamp
Connections	USB port for the test database; LAN port for PC connection
Overall dimensions (w × d × h)	360 × 410 × 680 mm
Weight	Approx. 21 kg
Product code	SLE/CE/84
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Digital Penetrometer Used For?

Penetration is the depth a loaded probe sinks into a sample in a set time at a controlled temperature, and for paving bitumen it is one of the main grading tests. On a manual penetrometer the operator lowers the needle to the surface, releases it and reads a dial. This instrument automates those steps: it finds the start point, times the penetration and the delay, records the depth to 0.01 mm and draws the penetration/time curve.

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