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**Product Name :**

Digital Penetrometer

**Product Code :**

SLE/CE/84



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## 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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