Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Dial penetrometers

Product Code :

SLE/CE/73



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Phone: +91-7082934803

Description :

Dial penetrometers (Product Code: SLE/CE/73) are compact handheld penetrometers used to evaluate the angle of internal friction of sandy soils and the cohesion of clay soils in trial pits, sample tubes and soil laboratories. Engineers and students press one of five plungers, from 6.35 mm to 25 mm tip diameter, into the soil and read a 60 mm dial that holds the peak value. Theyare made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM scientific instruments manufacturer in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Purpose	Evaluating the angle of internal friction of sandy soil and the cohesion in clay soils
Plungers	5 different plungers with tip diameters of 6.35, 10, 15, 20 and 25mm
Scale	0 to 14 kgf/cm², or dual 0 to 6 / 0 to 11 kgf/cm²
Peak hold	Included on all versions, with zero setting by push button
Dial diameter	60 mm
Weight	Approx. 300 g
Product code	SLE/CE/73
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Dial Penetrometer Used For?

Choose a plunger to suit the ground — a broad tip for soft clay or loose sand, a slender one for stiff material — then hold the instrument square to the soil face and press it in with a steady push. The peak hold keeps the highest reading on the dial after the plunger is withdrawn, and a press of the button returns the needle to zero for the next test. Readings are then related to cohesion in clays or friction angle in sands.

Because it weighs only about 300 g, the instrument fits in a field bag for logging trial pits, checking the ends of sample tubes or comparing layers in an excavation. It is an index test that complements, rather than replaces, laboratory shear tests. Among laboratory instruments in India for soil teaching, it is one of the quickest ways to show strength differences. Take several readings at each spot and average them.

What to Specify When Ordering

- Scale version: 0 to 14 kgf/cm² or dual 0 to 6 / 0 to 11 kgf/cm²
- Number of instruments for your field teams or student groups
- Any additional plungers of particular tip sizes you would like quoted for heavy use

OEM

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