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Product Name :

Load ring penetrometer

Product Code :

SLE/CE/71



Description :

Load ring penetrometer (Product Code: SLE/CE/71) is a hand-pushed cone penetrometer used to measure the bearing strength and degree of compaction of soils on site and in soil laboratories. Engineers and students push its 30° cone, with a 645 mm² base area, into the ground by a T-handle while a 1 kN (100 kgf) load ring with a maximum-load pointer captures the peakresistance. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEMmanufacturer of laboratory instruments and engineering lab equipment in India, at its own factoryin Ambala.

Specifications

Parameter	Detail
Purpose	Measuring the bearing strength and compaction degree of soils
Cone	30° end cone, area 645 mm² (1 sq in)
Load ring	1 kN (100 kgf) capacity, with maximum load pointer
Handle	T-shaped handle connected to the load ring
Extension rod	Five 100 mm graduations
Supplied with	Calibration chart
Weight	Approx. 4 kg
Product code	SLE/CE/71
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Load Ring Penetrometer Used For?

The operator stands over the test spot, grips the T-handle and pushes the cone steadily into the soil. The graduations on the extension rod show how deep the cone has gone in 100 mm steps, while the maximum-load pointer stays at the highest reading on the ring so it can be noted after the cone is withdrawn. The calibration chart converts that reading into force, and dividing by the cone area gives the penetration resistance.

Because a reading takes only moments, the instrument is ideal for mapping how evenly a fill or subgrade has been compacted, finding soft spots before CBR or plate load tests, and checking ground conditions for vehicle access or farm soil studies. As educational laboratory equipment in India, it gives students a quick, hands-on feel for soil strength. Keep the rod vertical and push at an even speed for comparable results.

OEM Manufacturer

Jain Scientific Equipments Private Limited (CIN U29309HR2020PTC087597) trades as ScienceLab and is the OEM of this load ring penetrometer. The instrument is manufactured at the company's licensed factory at 449, HSIIDC Industrial Area, Saha, Ambala, Haryana (Factory Licen

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