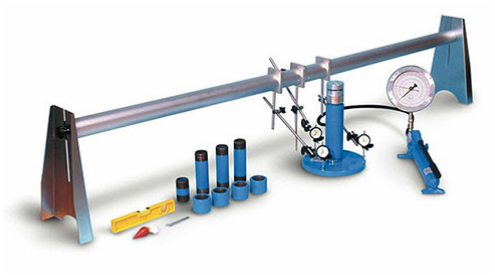
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Product Name :

Plate load bearing test apparatus

Product Code :

SLE/CE/61



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Description :

Plate load bearing test apparatus (Product Code: SLE/CE/61) is a hydraulic field loading set used to estimate the bearing capacity of soil beneath a loading plate at a chosen depth of embedment on construction and pavement sites. Geotechnical engineers, highway and airport pavement designers and civil engineering colleges use it with 300 mm and 450 mm diameter plates and a 200 kN or 500 kN piston assembly. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of engineering lab equipment in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Test purpose	Estimating soil bearing capacity under field loading conditions for a specific loading plate and depth of embedment
Pavement application	Load tests on soil and flexible pavement components for the evaluation and design of airport and highway pavements
Piston assembly capacity	200 kN or 500 kN
Loading system	Hydraulic hand pump with pressure transducer
Load readout	Battery-operated digital readout unit
Datum bar	2.4 m long
Settlement gauges	3 digital dial gauges, 25 mm travel x 0.01 mm, with dial supports
Loading plates	300 mm and 450 mm diameter
Product code	SLE/CE/61
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Plate Load Bearing Test Apparatus Used For?

The set reproduces a foundation or wheel load directly on the ground. The loading plate is bedded on the prepared test level, the hydraulic piston is jacked against a reaction load provided on site, and pressure is raised in increments with the hand pump while the digital readout shows the applied load. After each increment the three dial gauges, held from the 2.4 m datum bar, record how far the plate settles.

Plotting load against settlement lets students and site engineers judge the safe bearing pressure of a foundation stratum or the support offered by a subgrade and flexible pavement layers. As lab equipment for technical institutes, it also gives civil engineering students first-hand experience of a full-scale field test. Keep the datum bar supports well clear of the loaded area so the gauges read true plate movement.

Wha

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