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

Product Name :

Unconfined Compression Tester (Motorised)

Product Code :

SLE/CE/65



Description :

Unconfined Compression Tester (Motorised) (Product Code: SLE/CE/65) is a motor-driven screw load frame used to measure the unconfined compressive strength of cohesive soil specimens in geotechnical and civil engineering laboratories. Its 5000 kg capacity frame and gearbox give three rates of strain — 1.25, 1.5 and 2.5 mm/min — for testing cylindrical clay samples. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM technical educational equipment manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Load frame	Screw operated, capacity 5000 kg
Drive	Gear box with motor drive
Rates of strain	1.25, 1.5 and 2.5 mm/min
Fittings	Pair of cone seatings, adaptor for proving ring, strain dial gauge bracket
Power supply	230 V, single phase AC
Coning tools supplied	One pair (male and female) for 38 mm diameter samples
Not included	Proving ring and dial gauge
Optional accessories	Coning tools in male and female pairs for 38, 50, 75 and 100 mm diameter samples
Product code	SLE/CE/65
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Unconfined Compression Tester Used For?

A trimmed cylinder of clay, with its ends shaped by the coning tools, is set between the cone seatings and squeezed axially with no side support. The motor drives the platen at the selected strain rate while a proving ring, fitted through the adaptor, shows the load and a dial gauge on the strain bracket shows how much the specimen shortens. The peak stress reached is the unconfined compressive strength.

Because roughly half of that value approximates the undrained shear strength of saturated clay, the test is a quick input for foundation and slope checks, and comparing undisturbed with remoulded samples shows how sensitive a clay is. For lab equipments for technical institutes, the motor drive keeps the strain rate steady from one student group to the next. Record readings at regular strain intervals until the load clearly falls.

What to Specify When Ordering

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