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Product Name :

Consolidation Test Apparatus

Product Code :

SLE/CE/57



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Description :

Consolidation Test Apparatus (Product Code: SLE/CE/57) is a three-station steel loadingbench used to consolidate soil specimens ahead of triaxial testing in geotechnical and soilmechanics laboratories. It consolidates three triaxial specimens at the same time for CU and CDtests under anisotropic conditions, which shortens testing time when only one compressionmachine is available. It is fabricated by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, anOEM and engineering lab equipment manufacturer, at its own factory in Ambala, India, foruniversity and consultancy laboratories.

Specifications

Parameter	Detail
Purpose	Consolidation stage of three triaxial specimens at the same time, for CU and CD tests in anisotropic conditions
Construction	Steel bench with three load frames and centering platens
Triaxial cells	For specimens 35 to 100 mm diameter
Other makes of cell	Usable if the cell has a centering hole 13 mm dia. × 3 mm deep
Loading	Weights on the centre hanger and on the lever hanger; frames kept light so no counterbalance is required
Overall dimensions (L × D× H)	1300 × 800 × 970 mm
Weight	145 kg (approx.)
Dial gauge	0.002 mm × 10 mm
Extension piece	40 mm long
Test forms	Pads of 50 for Consolidation Test Plot and for one-dimensional consolidation
Weight set	Gives 10 kg/cm² on a 60 mm dia. specimen: 7 × 0.05, 5 × 0.1, 6 × 0.2, 6 × 0.5 and 5 × 1.0 kg/cm²
To complete the set-up	Axial displacement gauges or transducers, beam loading device(s) and slotted weights
Product code	SLE/CE/57
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Consolidation Test Apparatus Used For?

In consolidated-undrained (CU) and consolidated-drained (CD) triaxial tests, each specimen must first be consolidated under a controlled stress, a stage that can take many hours and would other es the c s three