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Product Name :

Direct Shear test Apparatus

Product Code :

SLE/CE/58



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Description :

Direct Shear test Apparatus (Product Code: SLE/CE/58) is a split shear box with a loading unit used to measure the shear strength of soil on 60 × 60 × 25 mm specimens in soil mechanics laboratories. Normal stress up to 8 kg/cm² is applied directly or through a counter-balanced lever, and a 200 kg proving ring with dial gauges records the response. The apparatus is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Shear box	Two halves, for a square specimen 60 × 60 × 25 mm
Gripper plates	One pair plain, one pair perforated
Porous stones	One pair
Loading pad	One top loading pad
Shear box housing	Accommodates the shear box assembly; complete with two ball roller strips
Specimen cutter	For cutting 60 × 60 × 25 mm specimens from larger samples
Weights	Set giving a normal stress of 3 kg/cm ²
Loading unit	Load yoke with direct and lever system; counter-balanced detachable lever
Normal stress capacity	8 kg/cm ²
Load application	Through a steel ball recessed in the loading pad, or directly through a boss on the loading yoke
Movement	V strips and roller strips for frictionless movement of the shear box housing
Proving ring	High-sensitivity compression proving ring, capacity 200 kg
Dial gauges	One consolidation dial gauge 0.01 mm × 25 mm; one strain dial gauge 0.01 mm × 25 mm
Optional accessories	Additional weights for a normal stress of 5 kg/cm ² ; soil sampler for 60 × 60 mm specimens; test form pad of 50; spare porous stones in pairs
Product code	SLE/CE/58
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Direct Shear Test Apparatus Used For?

The direct shear test apparatus is used in soil mechanics laboratories to measure the shear strength of soil. The specimen is placed between the two halves of the shear box, and the normal stress is applied through the yoke, while the shear stress is applied through the loading unit. The response is recorded by the proving ring and dial gauges.

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