Product name:	Product code:
Automatic Direct Shear Test Machine for Soil	CMI-IND-0001

Description

Motorised direct shear apparatus with digital load and displacement readout for determining cohesion and angle of internal friction of soils. Used in geotechnical labs, highway projects and foundation design investigations.

Technical specification

- 60 mm shear box with porous stones
- Dead weight set
- Digital indicator with cable

This direct shear machine drives a split shear box at a controlled strain rate while a load cell and LVDT log shear force and displacement. It is built for geotechnical labs that need repeatable strength parameters for slope, retaining wall and footing design. Test data is displayed live and can be exported to a PC.

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Features

- Variable strain rate from 0.0125 to 2.5 mm/min through a stepper drive
- Load cell and LVDT with 4-channel digital indicator
- Suitable for 60 mm square and 100 mm square shear boxes
- Hanger-type vertical loading with lever ratio 1:10
- Optional USB data logging for stress-strain plots

Technical Specifications

Shear force capacity	5 kN
Load cell resolution	1 N
Horizontal travel	25 mm, LVDT resolution 0.01 mm
Strain rate	0.0125 to 2.5 mm/min
Shear box size	60 x 60 mm and 100 x 100 mm
Vertical load	Up to 1000 kPa with dead weights
Standards	IS 2720 Part 13, ASTM D3080
Power supply	230 V AC, 50 Hz, single phase

Standard Accessories