Email : sales@scilabexport.com
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Product Name :

Automatic CBR Test Apparatus

Product Code :

SLE/CE/63



Science Lab

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Description :

Automatic CBR Test Apparatus (Product Code: SLE/CE/63) is a motorised load frame used to drive a penetration piston into a compacted soil sample at a constant rate and record load against penetration to find the California Bearing Ratio in highway and soil laboratories. Road research labs and civil engineering departments choose it for its 50 kN load cell, 0.5 to 5 mm/min ram speed and touchscreen unit that works out CBR at 2.5 mm and 5 mm automatically. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Test principle	Loads the penetration piston into the soil sample at a constant rate and measures applied load and piston penetration at predetermined intervals
Ram speed	Adjustable from 0.5 to 5 mm/min through the digital readout unit
Test methods	Speed range allows the same machine to be set up for BS, EN, ASTM or AASHTO CBR procedures
Platen adjustment	Rapid up and down buttons on the front panel
Load cell	50 kN
Displacement transducer	Linear potentiometric, 25 mm x 0.001 mm, with connection part
CBR calculation	Corrected CBR % at 2.5 mm and 5 mm calculated and saved automatically; load values corrected for the linear region of the curve are also saved
Stored load points	Load saved at user-defined displacements such as 0.625, 1.25, 1.875, 2.5, 3.75, 5, 7.5, 10 and 12.5 mm
Control modes	Displacement control and limited load control
Data acquisition	4 analogue channels (2 active for CBR), 1/256000 points resolution and 10 data per second per channel
Display	800 x 480 resolution, 65535-colour TFT-LCD industrial touchscreen with real-time test graph
Processor and memory	32-bit ARM RISC CPU card; permanent storage of up to 10000 test results
Interface	4 main function keys, multi-language support, real-time clock and date, result visualisation and memory management screens
Units	kN, ton or lb
Connectivity and software	Ethernet for computer interface and remote connection; computer software with advanced report generation; connection cable
Dimensions	480 x 650 x 1150 mm
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