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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 supplied 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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