

CBR TESTING MACHINE (Digital) (T001M)

Category: Soil



Product Code: T001M

Category: SOIL

Sub-Category: CALIFORNIA BEARING RATIO

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- The Laboratory CBR Tester is used to determine the California Bearing Ratio (CBR) of soil specimens, a critical parameter for evaluating the mechanical strength of road

subgrades and base layers in pavement design.

- Available in Fully Automatic, Digital, and Load-Ring models, the apparatus caters to varying levels of automation and data acquisition requirements, ensuring adaptability to diverse laboratory needs.
 - The Fully Automatic model features a 7" touch screen interface and integrated software, enabling automatic test execution, real-time data visualization, and generation of comprehensive reports, thereby enhancing efficiency and reducing operator intervention.
 - The Digital model is equipped with a touch screen load/flow indicator and PC connectivity, facilitating real-time data transfer and plotting of load versus penetration graphs, essential for detailed analysis and documentation.
 - The Load-Ring model incorporates a mechanical load ring and dial indicators, providing a cost-effective solution for laboratories preferring manual data recording while maintaining compliance with international testing standards.
 - All models are designed to apply loads at standardized rates of 1.00 mm/min and 1.27 mm/min, conforming to ASTM D1883, BS 1377-4, and EN 13286-47 specifications, ensuring consistency and reliability in test results.
 - Constructed with high-quality materials and components, the CBR Tester ensures durability and long-term performance in rigorous laboratory environments.
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STANDARDS

ASTM D1883 • EN 13286-47 • BS 1377-4

TECHNICAL SPECIFICATIONS

- Capacity: 50 kN
- Load Rates: 1.00 mm/min and 1.27 mm/min
- Power Supply: 220 – 240 V / 50 – 60 Hz

- **Fully Automatic Model:**
 - Control Interface: 7" Touch Screen with PC Software for Reporting and Automatic Calculations & Corrections
 - Load Measurement: High Precision Load Cell
 - Penetration Measurement: Electronic Measurement with Peak Hold Function
- **Digital Model:**
 - Display: Touch Screen Load/Flow Indicator with PC Software for Data Collection
 - Load Measurement: High Precision Load Cell
 - Penetration Measurement: Electronic Measurement with Peak Hold Function
- **Load-Ring Model:**
 - Load Measurement: Mechanical Load Ring
 - Penetration Measurement: Dial Indicator

EQUIPPED WITH

- CBR Penetration Piston
- USB Connectivity for Data Transfer (Fully Automatic and Digital Models)

ORDERING INFORMATION

Item Name	Item Code
LAB. CBR APPARATUS - Automatic	T001A05XU
LAB. CBR APPARATUS - Load Ring	T001L05XU
LAB. CBR APPARATUS - Digital	T001M05XU
LAB. CBR APPARATUS - Digital (100 kN)	T001M10XU
SPARE LOAD/DEFORMATION INDICATOR for T001M	T001P001X
CBR PENETRATION PISTON	T001P002X
SPARE DISPLAY PANEL (2.8") for T001M	T001P003H

Keywords: Laboratory CBR Tester, California Bearing Ratio Test, Soil Strength Testing, ASTM D1883, BS 1377-4, EN 13286-47, Fully Automatic CBR Machine, Digital CBR Apparatus, Load-Ring CBR Tester, Geotechnical Testing Equipment