



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

ASTM D1883, AASHTO T193 - DIGITAL LABORATORY CBR APPARATUS - WITH ALL ACCESSORIES



Complies with following International Standards

ASTM D1883, AASHTO T193

Significance & Use

This test method is used to evaluate the potential strength of sub-grade, sub-base, and base course material, including recycled materials for use in road and airfield pavements. The CBR value obtained in this test forms an integral part of several flexible pavement design methods.

Salient Features

1. Electronic Unit with Microprocessor based control and Digital Display.
2. Comprises a twin column frame incorporating a motorized drive system.
3. Electronic, Load Transducers and Displacement Transducers in conjunction with the EIE - Electronic Control and Readout Unit (Software at extra cost - Refer to optional accessories)
4. Two speed machine (**1.0mm/min for BS standard and 1.27mm/min for ASTM Standard**)
5. Rapid platen adjustment
6. Rapid adjustment of the platen is provided, which enables daylight to be taken up quickly and also close control of application of a seating load
7. Compact bench-mounting aesthetical design

Supplied Complete with following accessories and parts

1. Load frame, Motorized 5000 Kg (50 KN) capacity, With two rate of travel (1.0 & 1.27mm/min)

2. C.B.R. Mould, 152.4 mm diameter x 177.8 mm high with extension collar & perforated base plate. Made of Mild steel.
3. Penetration Piston, face diameter (49.63 $\pm$ 0.13) mm with adjustable bracket and not less than 4 inch (101.6 mm) long
4. Perforated plate (Swell plate), 149.23 mm diameter with adjustable stem and lock nut gunmetal
5. Metal tripod stand (Swell tripod) for dial gauges.
6. Displacer block, (150.8 mm) x (61.4 mm) high. Plated steel with detachable handle.
7. Annular metal weight, 2.27 kg (5 lb), 149.23 mm diameter with 53.98 mm diameter central hole.
8. Slotted metal weight, 2.27 kg (5 lb), 149.23 mm diameter with 53.98 mm diameter slot.
9. Rammer 2.6 kg weight with a drop of 310 mm
10. Rammer 4.54 kg having 50.8 mm diameter face, 457.2 mm fall
11. Digital controller, 50 KN Load cell & LVDT for measuring penetration value
12. Filter paper - 150 mm dia - Box of 100
13. With Test / Calibration Certificate.

Salient Features of Digital Readout Facility

1. Indication for penetration & load simultaneously.
2. Digital display of load value at required penetration value as per ASTM Standard.
3. No need to observe the dial gauge separately
4. Tare system to nullify initial load
5. Penetration range 25 mm by linear potentiometer.
6. Load range upto 5000 kg with load transducer.
7. Penetration & corresponding load value highlights for 0.50, 1.00, 1.50, 2.00, 2.50, 3.00, 4.00, 5.00, 7.50, 10.00 and 12.50 mm penetration.
8. The digital LCD display will retain the peak value until it is cleared.
9. With start & stop button facility.
10. Auto stop at 15.00 mm penetration.
11. Panel cut out size : 92 x 188 mm
12. Provision for tare & calibration for penetration & load.
13. Provision for default calibration.
14. Load cell can also be calibrated using standard reference

Click here for working video : <https://www.youtube.com/watch?v=hCWSTXztzSw>

Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,
Near Gujarat College, Ellisbridge,
Ahmedabad-380 006.
Phone : (079) 6621 1234
Website : www.eieinstruments.com

Calibration Laboratory:

Survey No. 1098, Nr. Mahakali Temple,
Opp. Primary School, Village Kubadthal,
Tal-Daskroi, Ahmedabad-382 433.
Phone: (079)-3520 8300
E-mail : info@eieinstruments.com

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