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INTELLITEST
CONSULTING I EQUIPMENT I TESTING

CALIFORNIA BEARING RATIO/UCS/ CONSOLIDATION

LOADTRAC II

The California Bearing Ratio (CBR) test is used in evalutating subgrade, subbase and base materials as an aid to the design of pavements. The laboratory test uses a circular piston to penetrate material compacted in a mold at a constant rate of penetration. The CBR is expressed as the ratio of the unit load on the piston required to penetrate 0.1 in. (2.5mm) and 0.2 in. (5.1 mm) of the test material to the unit load required to penetrate a standard material of well-graded crushed stone.

- **Load capacity of 45 kN (10 klbf) or 90 kN (20 klbf)**
- **Unmatched automation from test start to finish** - *2 to 32 times faster results and labor time savings of 30% to 95% vs. manual testing*
- **Flexible design** - *perform additional testing on the same platform and save money and space in your lab*
- **Full test control and remote monitoring allows you to take your testing on the go** - *view real-time results, check test quality, and change parameters*
- **Convenient reporting** - *produce complete, compliant reports instantly or export data for desired manipulation*
- **Designed for consistent and repeatable testing you can be confident in**

Standard Fully Automated California Bearing Ratio System

Applicable Test Standards

- ASTM D1883
- AASHTO T193
- BS 1377-4
- AS 1289

Intellitest Solutions Pvt. Ltd.
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CALIFORNIA BEARING RATIO LOADTRAC II

TECHNICAL SPECIFICATIONS

LOAD CAPACITY

45 (10 klbf) or 90 kN (20 klbf)

MOTOR

Micro-stepper system with built-in controls

RATE OF DISPLACEMENT

0.00003 to 25 mm per minute
(0.000001 to 1.0 in per minute)

TRAVEL

Built-in displacement transducer with 76 mm (3 in) range and 0.0013 mm (0.00005 in) resolution

POWER

110/220 V, 50/60 Hz, 1 phase

DIMENSIONS

464 x 546 x 1206 mm (18 x 21.5 x 47.5 in)

WEIGHT

55 kg (120 lbs)

INCLUDED

- Geo-NET network card and cable to link to PC
- CBR software module to automatically run and report tests

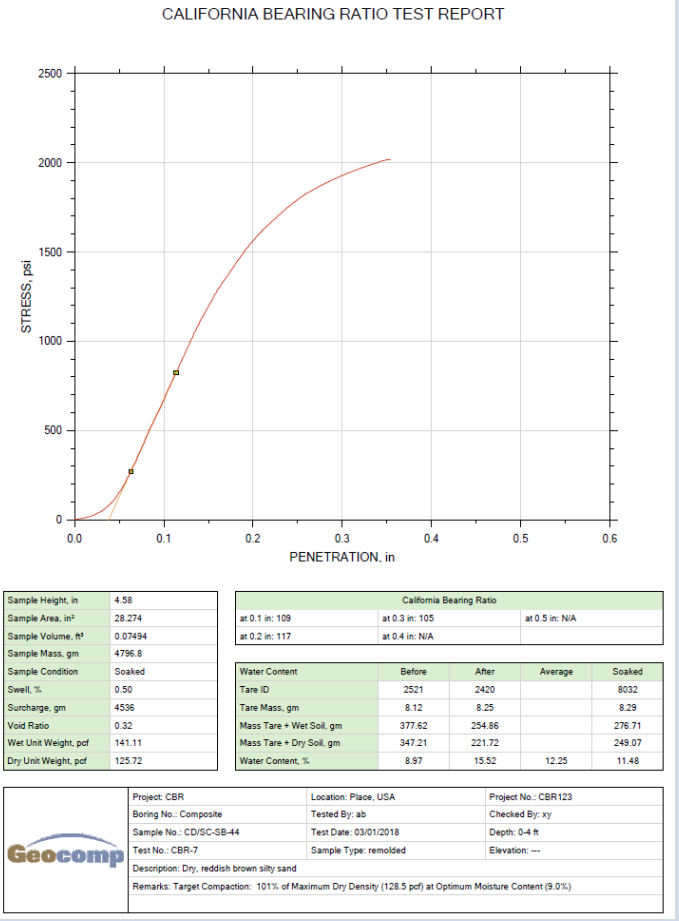
ACCESSORIES

- CBR piston and mold

WARRANTY

- 12 month warranty; extended warranties available

Typical Test Output (example)



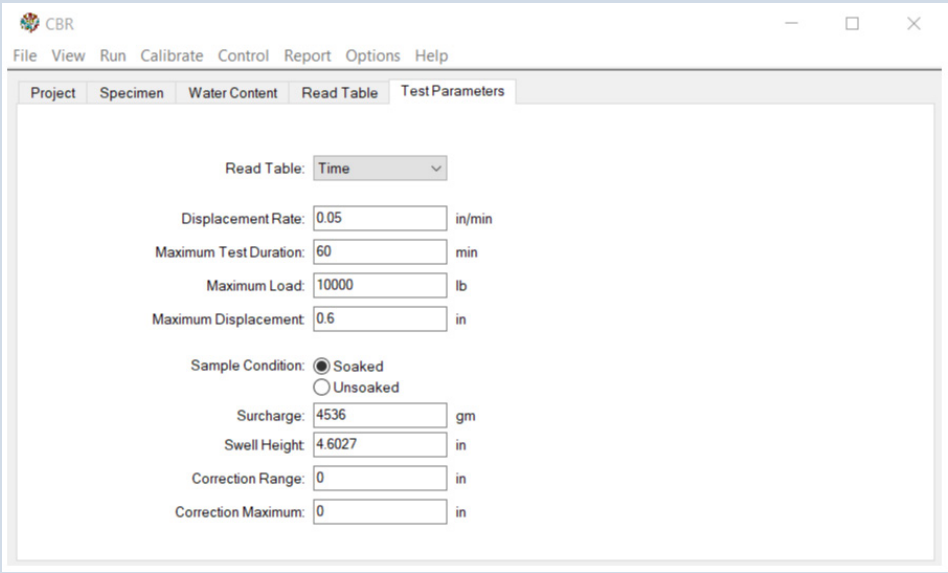
Sample Height, in	4.58
Sample Area, in²	28.274
Sample Volume, ft³	0.07494
Sample Mass, gm	4796.8
Sample Condition	Soaked
Swell, %	0.50
Surcharge, gm	4536
Void Ratio	0.32
Wet Unit Weight, pcf	141.11
Dry Unit Weight, pcf	125.72

California Bearing Ratio		
at 0.1 in: 109	at 0.3 in: 105	at 0.5 in: N/A
at 0.2 in: 117	at 0.4 in: N/A	

Water Content	Before	After	Average	Soaked
Tare ID	2521	2420		8032
Tare Mass, gm	8.12	8.25		8.29
Mass Tare + Wet Soil, gm	377.62	254.86		276.71
Mass Tare + Dry Soil, gm	347.21	221.72		249.07
Water Content, %	8.97	15.52	12.25	11.48

Project: CBR	Location: Place, USA	Project No.: CBR123
Boring No.: Composite	Tested By: ab	Checked By: xy
Sample No.: CD/SC-SB-44	Test Date: 03/01/2018	Depth: 0-4 ft
Test No.: CBR-7	Sample Type: remolded	Elevation: ---
Description: Dry, reddish brown silty sand		
Remarks: Target Compaction: 101% of Maximum Dry Density (128.5 pcf) at Optimum Moisture Content (9.0%)		

User Friendly Interface



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