Geocomp

Technologies to manage risk for infrastructure

California Bearing Ratio LoadTrac II

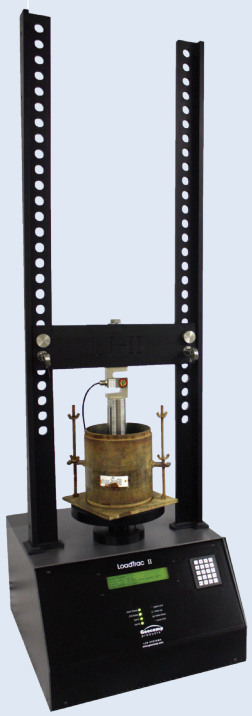
Benefits and Features

- Choose capacity to fit user needs from 45 and 90 kN (10,000 and 20,000 lbs.) models
- Total automation of data collection and reporting of test results
- Prepare tables and plots of report quality within minutes of completing a test
- Generate columns of data for easy reduction using your own spreadsheet software
- Ability to access and control the unit over a computer network using Geo-Net option

Applicable Test Standards

- ASTM D1883
- AASHTO T193 Standard Method for CBR (California Bearing Ratio) of Laboratory-Compacted Soils

The LoadTrac II loadframe provides compression/extension testing for a number of geotechnical tests that must have accurate control of the rate of displacement during loading. With accessories, the unit can perform CBR, unconfined compression and triaxial shear phase testing.



Standard Fully Automated California Bearing Ratio System

The base unit includes a stepper motor, lead screw, vertical tension rods and crosshead, displacement transducer, electronic controls and network communications. Versions of the unit are available to test loads up to 90 kN (20,000 lbs.). Displacement rates can be set to any value between 0.00003 and 15 mm/min (0.000001 to 0.6 in./min). CBR displacement rate is set through software at 1.27 mm/min (0.05 in./min) in accordance with ASTM D1883.

The base unit can run in stand-alone mode without a computer. It includes built-in data acquisition and display capability. Sensor readings are displayed in SI or English units and stored in memory.

Optional software running in Windows® completely automates the test, reducing the data and preparing test results.

California Bearing Ratio
LoadTrac II

TECHNICAL SPECIFICATIONS

MOTOR
Stepper motor with built-in controls

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

DISPLACEMENT
Control from 0.00003 to 15 mm per minute (0.000001 to 0.6 in. per minute)

DIMENSIONS
464 x 546 x 1206 mm
(18 x 21.5 x 47.5 inches)

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

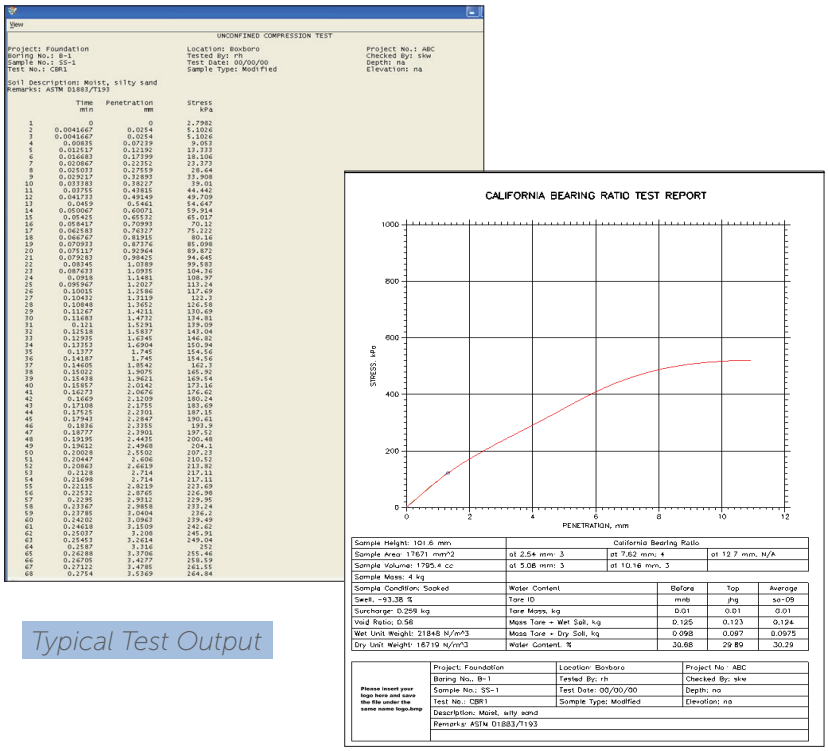
WEIGHT
55 kg (120 lbs.)

ACCESSORIES
7010: CBR plunger with load cell adapter

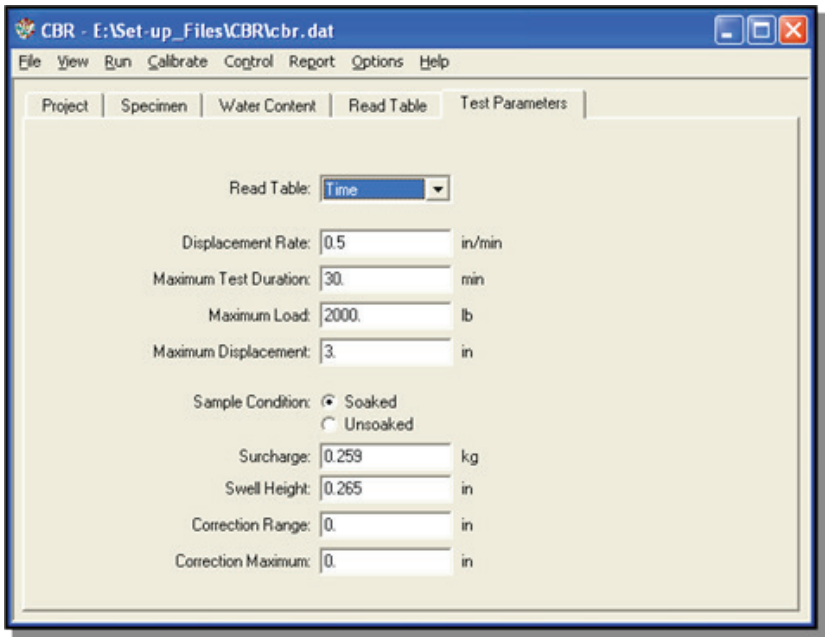
Geo-NET™: Network / communication card and cable to link load frame to PC

CBR: Software package to automatically run and report CBR tests

Options: UC, consolidation, and triaxial testing modules



Typical Test Output



User-friendly Interface