## CALIFORNIA BEARING RATIO

## 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 . $(2.5 \mathrm{~mm})$ and 0.2 in . $(5.1 \mathrm{~mm})$ of the test material to the unit load required to penetrate a standard material of wellgraded crushed stone.

- Built in safety features
- Smart and sophisticated technologies to simplify testing
- Repeatable, reliable, and accurate results you can trust
- Real-time and remote test parameter changes for quality control
- Convenient reporting and data export
- Faster, smarter, better: designed with full automation and manual control options
- Easy upgrade to perform additional test types
- Designed and manufactured in the USA


## Applicable Test Standards

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


Standard Fully Automated California Bearing Ratio System

## 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 $76 \mathrm{~mm}(3 \mathrm{in})$ range and 0.0013 mm (0.00005 in) resolution |
| POWER |
| $110 / 220 \mathrm{~V}, 50 / 60 \mathrm{~Hz}, 1$ phase |
| DIMENSIONS |
| $464 \times 546 \times 1206 \mathrm{~mm}(18 \times 21.5 \times 47.5 \mathrm{in})$ |
| WEIGHT |
| 55 kg (120 lbs) |
| INCLUDED |
| - GeoNet-U USB 2.0 network adapter and cable to link to PC/laptop <br> - CBR software module to automatically run and report tests |
| ACCESSORIES |
| CBR piston and mold |
| WARRANTY |
| 12 month warranty; extended warranties available |


V. 3 ©Geocomp 5/2024

