FULLY-AUTOMATED CALIFORNIA BEARING RATIO SYSTEM

Product Code

LoadTrac II

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.

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 per minutes (0.000001 to 0.6 inches per minute). CBR displacement rate is set through software at 1.27 mm/min. (0.05 in./min.) in accordance with ASTM D 1883.

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

Optional software running in Windows® 2000, XP, Vista, 7 completely automates the test, reducing the data and preparing test results.

Applicable Test Standards

• ASTM D-1883 “Standard Method for CBR (California Bearing Ratio) of Laboratory- Compacted Soils” • AASHTO T-193

User Benefits

• Choose capacity to fit user needs from 22, 45 and 90 kN (5,000, 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

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

Dimensions	464x546 x1206
Weight (approx.)	mm 55 kg

Models

LTII-5,000	22 kN (5,000 lbs.) frame capacity
LTII-10,000	45 kN (10,000 lbs.) frame capacity
LTII-20,000	90 kN (20,000 lbs.) frame capacity
LTII-50,000	222 kN (50,000 lbs.) frame capacity

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