



Technologies to manage risk
for infrastructure

Triaxial Semi-Automated LoadTrac II with Manual Pressure Volume Panel

User Benefits

- Choose load capacity to fit user needs from 45 and 90 kN (10,000 and 20,000 lbs.) models
- Total automation, control, data collection, and reporting of test results
- Prepare tables and plots of report quality within minutes of completing a test
- Geo-NET compatibility lets unit be accessed and controlled over a computer network
- Generate columns of data for easy reduction using your own spreadsheet software
- Accurate displacement rate control from 0.00003 to 35 mm per minute (0.000001 to 1.3 inches per minute)
- Stand alone through front keypad and LCD menu capability

Applicable Test Standards

- ASTM D4767
- AASHTO T297
- COE EM 1110

The LoadTrac II with manual pressure volume panel system for triaxial testing automates the shear phase of UU, CU, CD triaxial tests on soils and soft rocks. Once a soil sample is in place, and the test shear parameters conditions are selected, the LoadTrac II system will automatically shear the soil sample. This system is operated by software which displays in real time the test progress, and stores the data for subsequent editing and reporting.

The system comes as a complete, self-contained unit with all of the equipment required to perform the automated shear phase of any triaxial test. The LoadTrac II system utilizes a high speed, precision micro-stepper motor to apply the vertical load to the soil specimen.

The system is capable of applying a constant rate of strain at any displacement rate from 0.00003 up to 35 mm per minute (0.000001 to 1.3 inches per minute).

Sensor readings are displayed in SI or English units and stored in memory. With the network communications module and appropriate software, the entire test can be automatically controlled, data captured and displayed in real time, and test reports prepared on a PC.



Standard Semi-Automated Triaxial System with
Manual Pressure Volume Control Panel

Boston

Atlanta

Chicago

Los Angeles

New York

Triaxial Semi-Automated LoadTrac II with Manual Pressure Volume Panel

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 35 mm per minute (0.000001 to 1.3 in. per minute)

POWER

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

DIMENSIONS

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

WEIGHT

55 kg (120 lbs.)

MODELS AND FRAME CAPACITY

LTII-10,000: 45 kN (10,000 lbs.)

LTII-20,000: 90 kN (20,000 lbs.)

ACCESSORIES

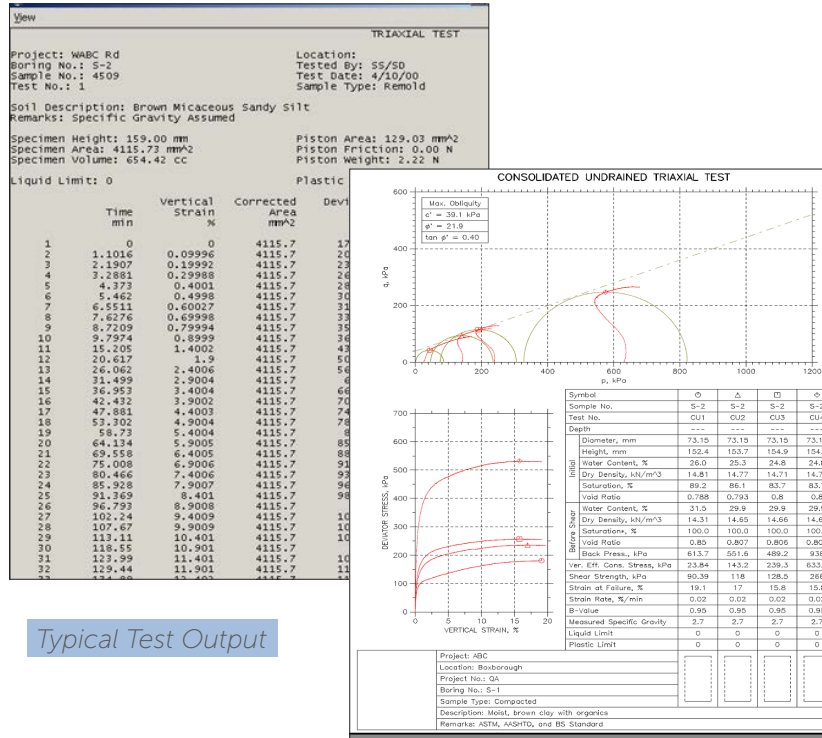
Manual pressure volume control panel for back pressure saturation and consolidation

Triaxial cells, membranes, porous stones, sample preparation, and set-up accessories available upon request

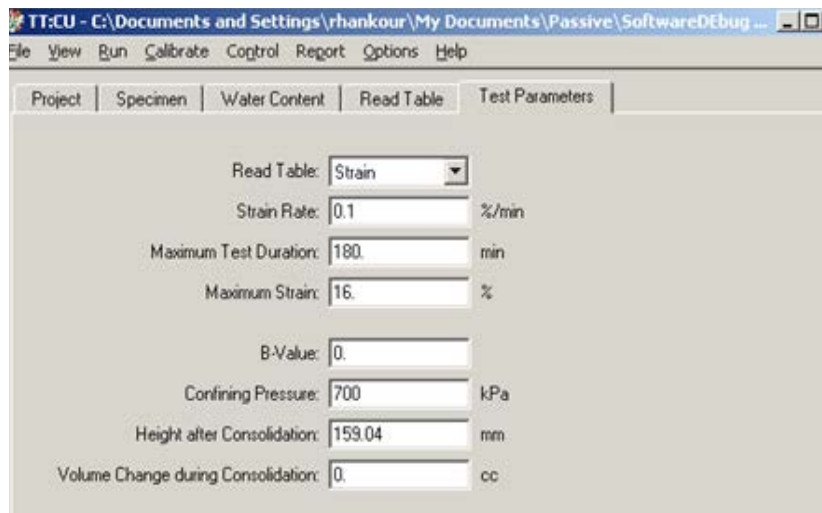
Geo-NET PC network card and cable to link LoadTrac II/FlowTrac II

OPTIONS

Two Flow pumps (FlowTrac II units) to fully automate back pressure saturation consolidation (isotropic, anisotropic, and K_0), shear undrained, drained, and along any stress path



Typical Test Output



User-friendly Interface