

LoadTrac II with Pressure Volume Control Panel

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 rock. 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 store 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 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 15 mm per minute (0.000001 to 0.6 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.

Optional software running in Windows NT or XP and two flow pumps completely automates running the test, reducing the data and preparing test results.



USER BENEFITS

- ▶ Choose load capacity to fit user needs from 10, 22 and 45kN (2,000, 5,000 and 10,000 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 15 mm per minute (0.000001 to 0.6 in. per minute)
- ▶ Stand alone through front keypad and LCD menu capability

APPLICABLE TEST STANDARDS

- ▶ ASTM D-4767
- ▶ AASHTO T-297
- ▶ COE EM 1110 Consolidated Undrained Compression/Extension tests, Consolidated Drained Compression/Extension tests, Stress Path tests
- ▶ BS

Triaxial Testing

SPECIFICATIONS

MOTOR: Stepper motor with built-in controls

TRAVEL: Built-in displacement transducer with 3 inch 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: 464 mm x 546 mm x1206 mm (18 in. x 21.5 in. x 47.5 in.)

WEIGHT: 55 kg (120 lbs.)

MODELS

LT II-2,000	10 kN (2,000 lbs.)
LT II-5,000	22 kN (5,000 lbs.)
LT II-10,000	50 kN (11,500 lbs.)
LT II-50,000	220 kN (40,000 lbs.)

ACCESSORIES

- Manual pressure volume control panel for back pressure saturation and consolidation
- Triaxial cells, membranes, porous stones sample preparation and set-up accessories upon request.
- Geo-NET PC network card and cable to link LoadTrac II/FlowTrac II.

OPTIONS

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

