

## INCREMENTAL & CONSTANT RATE-OF-STRAIN (CRS) CONSOLIDATION **LOADTRAC II / FLOWTRAC II**

The LoadTrac II / FlowTrac II system fully automates performing a Constant Rate-of-Strain Consolidation (CRS) test. Once a soil sample is in place, and the test conditions selected, this system will run the entire CRS test from start to finish. The LoadTrac II / FlowTrac II system consolidates the sample through a loading path specified by using constant rate of strain loading. The FlowTrac II is used during the back pressure saturation as well as maintaining a constant cell pressure during the consolidation phase of the test. To avoid running the test too fast or too slow, the system uses Excess Pore Pressure Ratio Limits.

- **Load capacity of 45 kN (10 klbf) or 90 kN (20 klbf)**
- **Unmatched automation from test start to finish** - 2 to 32 times faster results and labor time savings of 30% to 95% vs. manual testing
- **Flexible design** - perform additional testing on the same platform and save money and space in your lab
- **Full test control and remote monitoring allows you to take your testing on the go** - view real-time results, check test quality, and change parameters
- **Convenient reporting** - produce complete, compliant reports instantly or export data for desired manipulation
- **Designed for consistent and repeatable testing you can be confident in**

### Applicable Test Standards

- ASTM D4186
- ISO/TS 17892-5



Standard Constant Rate of Strain (CRS)  
Consolidation System

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# CRS CONSOLIDATION LOADTRAC II / FLOWTRAC II

## TECHNICAL SPECIFICATIONS

### LOAD CAPACITY

45 kN (10 klbf) to 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)

### FLOW RATE

Min Speed 0.0003 cc/min 0.00001 fl oz/min  
Max Speed 1054 cc/min 36 fl oz/min

### TRAVEL

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

### POWER

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

### DIMENSIONS

LoadTrac II 464 x 546 x 1206 mm  
(18 x 21.5 x 47.5 in)  
FlowTrac II 203 x 406 x 470 mm  
(8 x 16 x 18.5 in)

### WEIGHT

55 kg (120 lbs) LoadTrac II  
14kg (30 lbs) FlowTrac II

### INCLUDED

- Geo-NET network card and cable to link to PC
- CRC software module to automatically run and report tests

### ACCESSORIES

- FlowTrac II flow pump. Models available:
  - 200 psi (1400 kPa)/ 250 cc
  - 200 psi (1400 kPa)/ 750 cc
- Back Pressure Consolidometer (stainless steel) with 200 psi (1400 kPa) pressure sensor. Allows measurement of pore pressure and permeability. Includes sample cutting ring and porous stones.
  - Standard sizes - 2.5 in (63.5 mm) and 4.0 in (101 mm)

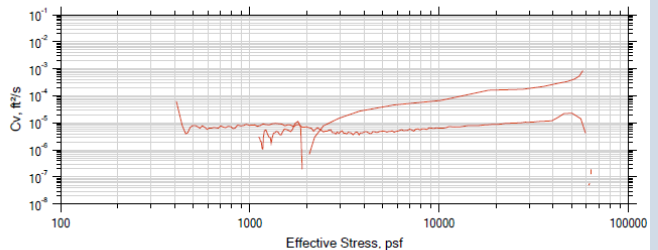
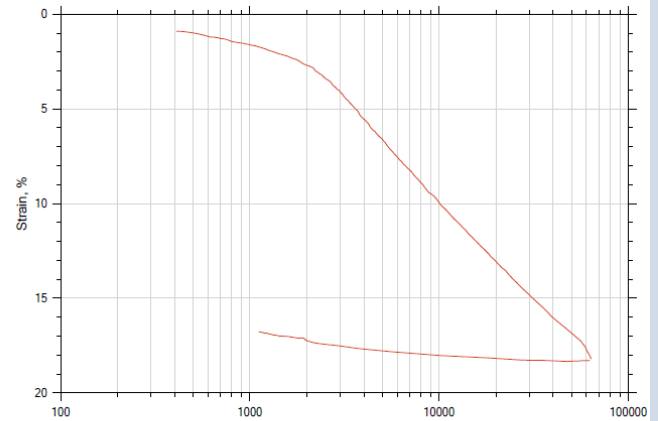
## Test Methods

- Constant rate of strain
- Constant rate of stress
- Constant gradient
- Constant pore pressure ratio

## Typical Test Output (example)

### CRS TEST

#### Summary Curves



Project: ABC Project	Location: Anywhere, US	Project No.: 999999
Boring No.:	Tested By: JI	Checked By:
Sample No.:	Test Date: 02/28/2018	Depth:
Test No.:	Sample Type: Resedimented	Elevation:
Description:		
Remarks:		

## User Friendly Interface

CRC

File View Run Calibrate Control Report Options Help

Project Specimen Water Content Read Table Test Parameters Initialization Saturation Consolidation Table

Start Phase: ☒ Initialization ☐ Saturation ☐ Consolidation

Start Compression Curve: ☒ Initialization ☐ Saturation ☐ Consolidation

Machine Correction: ☒ Enable

Final Height:  in

Resample Time:  min

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