

SHEARTRAC II

The ShearTrac II in direct/residual shear or direct simple shear configuration is a fully automated shear and load frame combination system allowing both vertical and horizontal load and displacement applications. They incorporate independent electromechanical micro-stepper motor systems for superior precision and repeatable results. ShearTrac II can run in stand-alone mode (ideal for teaching) or can be connected to a PC for full automation from test start to finish. Being compact, tabletop setups with flexibility to perform a wide range of shear and compression tests the ShearTrac II is an ideal system for any lab.

Technical Specifications

LOAD CAPACITY

Up to 11 kN (2.5 klb) vertical and horizontal

VERTICAL/HORIZONTAL MOTORS

Micro-stepper system with built-in controls

CONTROL

- Stress (load)
- Strain (displacement)

RATE OF DISPLACEMENT

0.000006 to 33 mm/min
(0.0000002 to 1.3 in/min)

VERTICAL TRAVEL

44.5 mm (1.75 in)

HORIZONTAL TRAVEL

+/- 25.4 mm (1.0 in)

DIMENSIONS

660 x 406 x 813 mm (26 x 16 x 32 in)

WEIGHT

63 kg (140 lbs)

INCLUDED

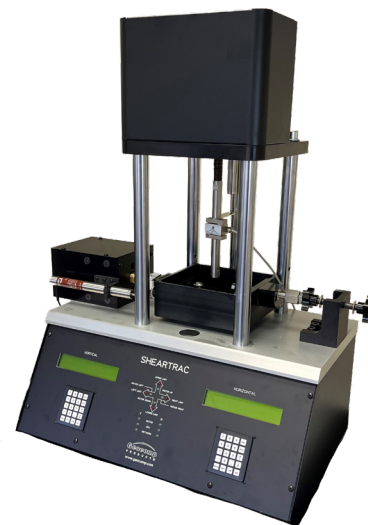
- GeoNet-U USB 2.0 network adapter and cable to link to PC/laptop
- Associated module to automatically run and report tests

WARRANTY

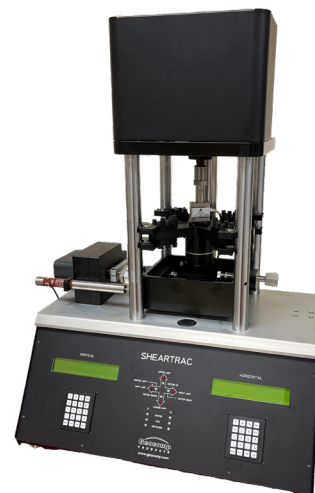
12 month warranty; extended warranties available

TESTING CAPABILITIES

- Direct/residual shear
- Direct simple shear
- 1-D incremental consolidation
- Constant volume swell
- Constant stress swell (free swell)
- Constant rate consolidation (with FlowTrac II or III)
- Unconfined compression



ShearTrac II Direct/Residual Shear System



ShearTrac II Direct Simple Shear System