DIRECT SIMPLE SHEAR
SHEARTRAC II DSS

The ShearTrac II direct simple shear (DSS) system is used to measure undrained shear strength of soils to reflect the average shear strength mobilized in the field during failure of embankments on soft soil foundations and deep excavations in clay. The DSS test generates a fairly homogeneous state of shear stress throughout the specimen, which provides initial stress condition, stress path, and deformation configuration that models numerous field loading conditions more closely than any other test system.

- **Load capacity up to 11 kN (2.5 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 D6528

Standard Direct Simple Shear System
LOAD CAPACITY
Up to 11 kN (2.5 klbf) vertical and horizontal

VERTICAL/HORIZONTAL MOTORS
Micro-stepper system with built-in controls

CONTROL
- Stress (load)
- Strain (displacement)

RATE OF DISPLACEMENT
0.000006 to 21 mm per min
(0.0000003 to 0.8 in per min)

VERTICAL TRAVEL
25.4 mm (1.00 in)

HORIZONTAL TRAVEL
+/- 25.4 mm (1.00 in)

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

DIMENSIONS
228 x 560 x 762 mm (9 x 22 x 30 in)

WEIGHT
63 kg (140 lbs)

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

ACCESSORIES
- Top & bottom cap, bronze sintered porous stones with pins, Teflon coated stack of rings, base plate - 50 mm (2.0 in) and 63.5 mm (2.5 in) kits available

WARRANTY
- 12 month warranty; extended warranties available

User-Friendly Interface

Typical Test Output (example)