

Simple Shear Testing System

Related Standards: ASTM D6528-07;

The VJ Tech Simple Shear Testing System is used to carry out a simple shear test to determine the shear modulus of a soil sample. The sample is contained within confining rings under constant volume conditions and is sheared until it is stressed to failure.

The apparatus is microprocessor controlled, has inbuilt data logging and is supplied complete with a lever loading device, hanger and sample unit (with mould and confining rings), all mounted on a floor standing frame.

Horizontal and vertical loads (up to 5 kN) are measured with S-beam load cells with horizontal and vertical movement measured with linear displacement LSCT transducers.

Features

- Inbuilt 4-Channel data logging
- Passive height control
- Stepper motor control for horizontal loading
- Built-in graphics display and keypad for local operation
- Pore pressure measurement
- RS232 interface for PC control

Specifications

Vertical Load	5 kN
Horizontal Load	5 kN
Horizontal Travel	20 mm
Speed Range (Standard)	0.0001-10.0000 mm/min
Fast Speed Forward	10 mm/min
Fast Speed Reverse	10 mm/min
Dimensions (W x D x H)	1200 x 500 x 1400 mm
Weight	113 kg
Electrical Requirement	240V 50Hz 1ph
PC Interface	RS232



VJT9550 - Simple Shear Testing System

Clisp Studio - csDSS Software

- Easy Test configuration using the built in wizard
- Transducer Configuration and Calibration
- Live views of transducer readings & calculated parameters
- Live graphs and tabulated data
- User configurable views tables and graphs
- Easy data export to commercial spreadsheets
- Entire test script export & import
- Data storage in an SQL database
- Configurable Test automation

Ordering Information

VJT9550	Simple Shear Testing System
VJT2821	Advanced Simple Shear Lever Loading Apparatus
VJT0271	25 mm Displacement Transducer
VJT0270	10 mm Displacement Transducer
VJTS0361	S-Beam Load Cell (5 kN)
VJT0650-50W	Slotted Weight Set (50 Kg)
VJT-csDSS	Clisp Studio Direct Simple Shear Software