

## LAB VANE SHEAR

The Lab Vane Shear System is used to quickly calculate peak and/or residual undrained shear strength on intact or remolded specimens in the lab. Once the set-up is in place and the test conditions are selected, the Vane Shear system will run the entire test from start to finish. The Vane Shear utilizes a high speed, precision micro-stepper motor to apply the torque. An embedded control board with a dedicated CPU takes readings from the torque sensor and controls the stepper motor.

- Determine both peak and residual shear strength
- Highly portable and lightweight
- Built in safety features
- Smart and sophisticated technologies to simplify testing
- Repeatable, reliable, and accurate results you can trust
- Real-time and remote test parameter changes for quality control
- Convenient reporting and data export
- Faster, smarter, better: designed with full automation and manual control options
- Easy upgrade to perform additional test types
- Designed and manufactured in the USA

### Applicable Test Standards

- ASTM D4648



Standard Lab Vane Shear System

# LAB VANE SHEAR SYSTEM

## TECHNICAL SPECIFICATIONS

### TORQUE CAPACITY

9 lbf-in (1 Nm)

### ROTATIONAL MOTOR

Micro-stepper system with built-in controls

### ROTATIONAL SPEED RANGE

0 to 8 rad/sec (customizable for higher speeds)

### CONTROL

Torque or Rotation

### TORQUE MEASUREMENT

Embedded torque sensor

### MEASUREMENT RANGE

-1 Nm (-9 lbf-in) to 1 Nm (9 lbf-in)

### MEASUREMENT ACCURACY

61 Nm (0.0005 lbf-in)

### VERTICAL TRAVEL

6 in (152 mm)

### POWER

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

### DIMENSIONS

394 x 400 x 394 mm (15.5 x 15.75 x 15.5 in)

### WEIGHT

10 kg (22 lbs)

### INCLUDED

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

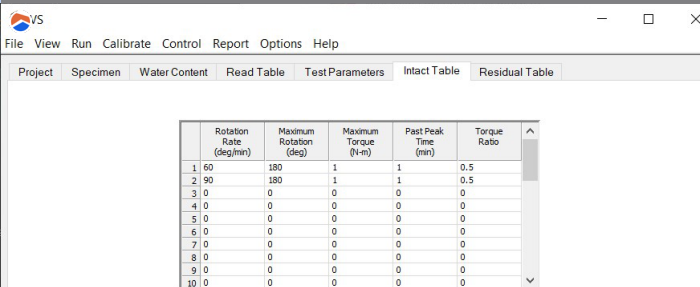
### ACCESSORIES

- Four vane blades: 2 short and 2 long (custom lengths available)
  - H:D of 1:1: 12.7 x 12.7 mm (0.5 x 0.5 in)
  - H:D of 2:1: 12.7 x 25.4 mm (0.5 x 1.0 in)

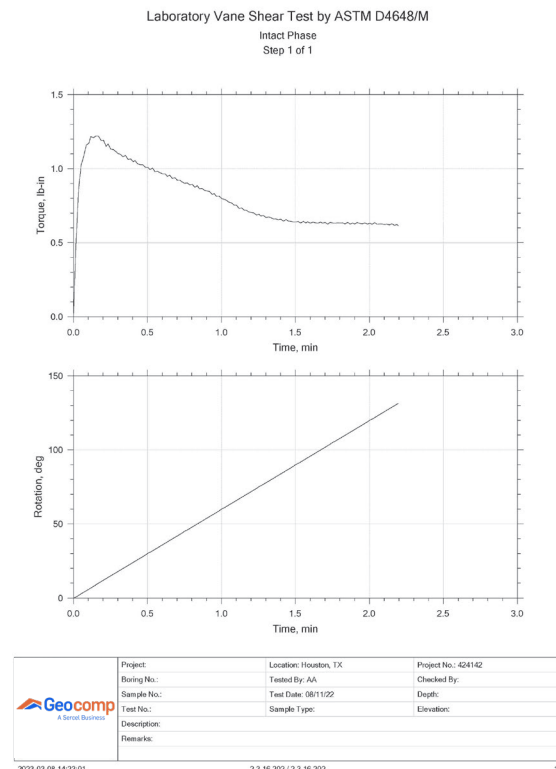
### WARRANTY

12 month warranty; extended warranties available

## User Friendly Interface



## Typical Test Output (example)



## Typical Test Output (example)

