

Pro Series



*Water carriage removed
and Consolidation Cell
placed on adaptor, ready
for Oedometer testing*

ShearSCAN Pro Motorised Shear System

ShearSCAN Pro Motorised System

Ordering Information

VJT2585 ShearSCAN Pro with 10kN load cell and built-in 4 channel data acquisition

VJT-csCONSHEAR Clisp Studio Constant Shear Software

Optional Ordering Information for Oedometer Testing

VJT-csODO Clisp Studio Oedometer Software

(See ACONS Pro Datasheet for further details)

Specifications

Horizontal Travel	+/- 20 mm
Controlled Strain Rate	0.00001 to 9.9999 mm/min
Maximum Strain Rate	0.00001 to 99.99999 mm/min
Vertical Load	10 kN max
Horizontal Shear Force	10 kN max*
Power Supply	(90-240) VAC, 1ph, 50/60 Hz
Dimensions (L x W x H)	950 x 500 x 750 mm
Net Weight	68 kg Nominal

* From November 2018 onwards

Related Standards: BS1377-7 : 1990 (Clause 4 & 5); ASTM D3080-04; AS 1289.6.2.2 : 1998; Q181C

The VJ Tech ShearSCAN Pro Motorised System uses stepper motors for applying vertical and horizontal load to the sample. The self-contained tabletop model eliminates the need for the numerous weights required for dead weight systems.

The Advanced electronics enable the ShearSCAN Pro to carry out Constant Shearing, in addition to Direct and Residual shear. It is also capable of Oedometer testing using the supplied adaptor (requires csOEDO).

In normal mode, it interfaces with a PC via Ethernet connection for automated Remote Test control using our renowned Clisp Studio software.

Using our versatile csCONSHEAR software (which includes csSHEAR), a Test can be set up with 3 possible Consolidation Modes, 3 possible Vertical Control methods for the Shear Mode and 6 possible Shear Modes for the selected Vertical Control Method.

The ShearSCAN Pro system incorporates an integrated 7" colour touchscreen display for standalone use with easy Test setup and control. Test results can be viewed on the screen, & data is stored on an internal SD card in Excel compatible format. The files can then be exported when required via a USB link.

The system features a built-in Auto engaging function with a definable engage value and auto reverse from limit switch activation to prevent damage. It also includes inbuilt auto protection from sensor limits.

ShearSCAN Pro Motorised Shear

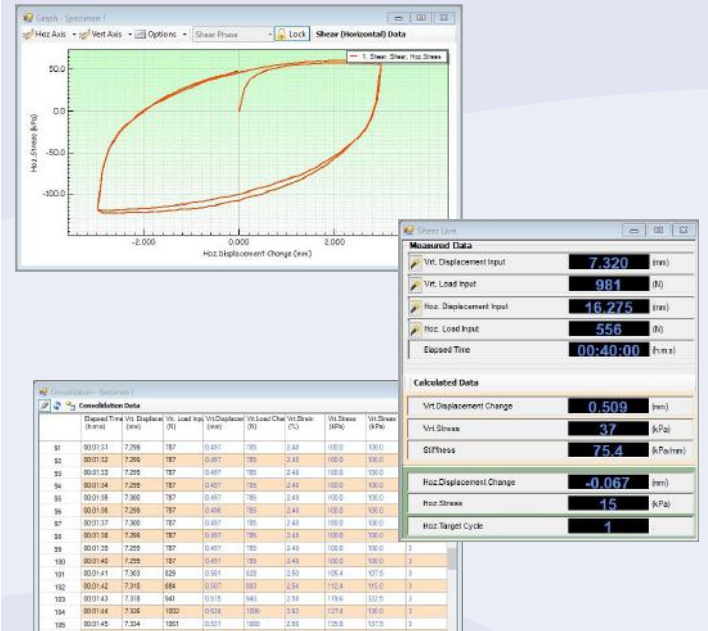
Accessories

- VJTS0362** External S-Beam Load cell (10kN)
- VJT0270** Vertical Strain Transducer 10 mm
- VJT0272** Horizontal Strain Transducer 50 mm
- VJT0284** Mounting Brackets for transducers (x2)

- Compact design (small footprint) able to fit on a table top
- Capable of Cyclic Shear & Direct Shear and/or Residual Shear
- Also capable of Oedometer testing with supplied adaptor (requires csOEDO)
- USB or Ethernet Interface for PC control
- Integrated 7" Touchscreen Colour Display for Standalone use
- Test setup and control facilities with large data storage (up to 14 million records) using SD card (8GB standard)
- Stepper motors to generate Vertical and Horizontal force
- High Speed ARM Processor
- High Speed sensor conversion (24 bit, up to 4000 samples/sec)
- 4 Analogue input channels (Vertical & Horizontal Load and Displacement)
- Includes 10kN Vertical Load cell
- Horizontal S-Beam additional, (Internal Submersible Load Cell setup available on request)
- Built-in live data table and graphs
- Data export via USB link for manipulation in Excel
- Built-in Auto engage function
- Auto reverse from limit switch activation
- Built-in auto protection for sensor limits

Sample Accessories

Sample size	60mm sq.	60mm dia.	2.5" sq.	2.5" dia.	70mm sq.	70mm dia.	100mm sq.	100mm dia.
Shearbox Assembly	VJT2761S	VJT2761D	VJT2763S	VJT2763D	VJT2765S	VJT2765D	VJT2762S	VJT2762D
Cutter	VJT2552.06S	VJT2552.06D	VJT2552.2.5S	VJT2552.2.5D	VJT2552.70S	VJT2552.70D	VJT2552.10S	VJT2552.10D
Dolly	VJT2553.06S	VJT2553.06D	VJT2553.2.5S	VJT2553.2.5D	VJT2553.70S	VJT2553.70D	VJT2553.10S	VJT2553.10D
Porous Stone	VJT2554.06S	VJT2554.06D	VJT2554.2.5S	VJT2554.2.5D	VJT2554.70S	VJT2554.70D	VJT2554.10S	VJT2554.10D



VJT-csCONSHEAR Example Graphs & Live Data View

- 3 possible Consolidation Modes:
 - Single Stage,
 - Multiple Stage
 - Over Consolidation mode
- 3 possible Vertical Control methods for each Shear Mode:
 - Constant Normal Stress
 - Constant Normal Height
 - Constant Normal Stiffness
- 6 possible Shear Modes for selected Vertical Control Method
 - Static Push Shear tests
 - Static Push-Pull Shear tests
 - Static Push-Pull Loop Shear tests
 - Cyclic Displacement Shear tests
 - Cyclic Displacement Paused Shear tests
 - Cyclic Stress Shear tests
- Live data view of logged and calculated data
- Live Tabular display of logged and calculated data
- Live Graphical display of logged and calculated data
- Export of data to Excel and test script export & import