

Pro Compact Automatic Triaxial Testing System

Applicable Standards: BS1377-7 & 8, ASTM D2166/D2166M-13, D2850-03A & D4767-11, AS1289.6.4.1 & 2 and GEOSPEC 3

The VJ Tech Pro Compact Automatic Triaxial Testing System is capable of providing fully automatic total and effective Triaxial testing including Consolidated Drained (CD), Consolidated Undrained (CU), Unconsolidated Undrained (UU) and Stress Path tests (require csSPATH software module), for sample sizes up to 100 mm. The Pro Dual Automatic Pressure Controller is used to control and measure both Cell and Back Pressure and Volume.

Both Instruments can be connected via Ethernet or USB to a PC or Laptop running our renowned Clisp Studio software, which provides all the necessary test configuration, control, data acquisition and results export. The software can also control multiple testing stations automatically, with each station simultaneously controlling up to three other sample saturations and consolidations if required. Once the Test has been completed, numerous different reports can be generated for results analysis.

Both Instruments have Integrated 7" (178 mm) Touchscreen Colour Displays which can be used for data entry and control when in standalone mode. Data is stored on an internal SD memory card for output to PC for manipulation within Excel.

System Features

- USB or Ethernet Interface for PC control
- Integrated 7" Touchscreen Colour Display for Standalone use without PC Control if required
- On-board data logging with large data storage using SD card (8GB standard)
- Data export to PC for manipulation within Excel
- High Speed ARM Processor
- Closed loop control options of load and displacement
- High Speed sensor conversion (24 bit, up to 4000 samples/sec)
- Up to 6 input channels (1 x digital & 5 x analogue)
- Built-in live data table and graphs
- Built-in Auto engaging function with definable engage value
- Built-in auto protection for sensor limits
- Non-Volatile Memory for sensitive data

Advanced Feature

- Capable of Slow Cyclic Testing up to 0.1 Hz (Subject to Amplitude)



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Ordering Information

Main System Components

VJT5135-P Pro TriSCAN 10 kN Advanced Load Frame

VJT2267D-P Dual Automatic Pressure Controller (3500 kPa per Channel)

VJT0549 Triaxial Cell (50 mm)

Transducers

VJT0271 LSCT Displacement Transducer (25 mm) (10 mm Transducer also available)

VJTS0362 10 kN S-Beam Load Cell with cable & plug (5 kN also available)

VJT0250-G 10 bar Pressure transducer with cable & plug

Accessories

VJT0280 De-airing block with valve for pressure transducer

VJT0280-SOL Automatic Solenoid Valve

VJT2571-T Framed Table for Shear/Triaxial Testing

VJT0520-DP APC Water Distribution Panel (2-way)

Software

VJT-csTRIAX Clisp Studio Triaxial Software