## ShearTEST Pro Direct/ Residual Shear System

### Related Standards

**British** BS1377-7 : 1990, BS EN ISO 17892-10 : 2018

**American** ASTM D3080-04, D3080-11

**Australian** AS1289.6.6.2 : 1998, Q181C

VJ Tech's new ShearTEST Pro is an upgraded version of our popular ShearTEST Lever Loading, Direct/Residual Shearbox, which shears a sample under applied normal load along a predefined plane, until it is stressed to failure.

The apparatus is supplied complete with a lever loading device, hanger and shearbox carriage all mounted on a floor standing frame. The horizontal sensor, sample preparation kit, weights and Software are additional. The maximum lever loading arm load is 100 kg.

#### **Features**

- 4 Analogue input channels (Vertical & Horizontal Load and Displacement)
- USB or Ethernet Interface for PC control
- · Compact Design for a small footprint
- Integrated 7" Touchscreen Colour Display for Standalone use
- Test setup and control facilities with large data storage (up to 14 million records on internal SD card (8 Gb standard))
- · High Speed ARM Processor
- High Speed sensor conversion (24 bit, up to 4000 samples/sec)
- · Built-in live data table and graphs
- Data export via USB link to PC for manipulation in Excel if required
- Auto reverse from limit switch activation
- Built-in auto protection for sensor limits

#### **Specifications**

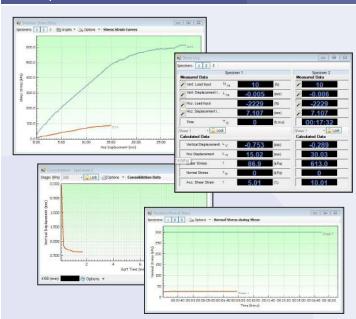
Horizontal Travel	20 mm
Speed Range: Standard Fast Forward/Reverse	0.00001 to 10 mm/min 10 mm/min
Vertical Load	10 kN
Horizontal Shear Force	5 kN
Power Supply	220/240V 50/60 Hz 1ph
Dimensions (W x D x H)	940 x 420 x 1140 mm on stand
Weight	54 kg



VJT2760A-P - ShearTEST Pro Direct/Residual Shearbox

### **Clisp Studio csSHEAR Software Features**

- Direct/Residual Shear tests
- Multi specimen tests
- Automatic start/stop of test/machine
- Live Tabular display of logged and calculated data
- Live Graphical display of logged and calculated data
- User defined views / graphs / tables
- Standard predefined presentation reports
- Export of data to Excel & test script export & import





# ShearTEST Pro Direct/ Residual Shear System

Ordering Information		
Main Instrument		
VJT2760A-P	ShearTEST Pro Direct/Residual Shearbox	
Software		
Joitware		
VJT-csSHEAR	Clisp Studio Direct/Residual Shear Software	

Vertical Settlement Measurement		
Part No	Specification	Bracket/Adaptor
VJT0105-M	Mechanical Dial Gauge, 12 mm travel x 0.002 mm divisions	Included
VJT0105-MIT	Digital Dial Gauge, range 0 - 12.7 mm x 0.001 mm resolution included	Included
VJT0270	Displacement LSCT Transducer, range 10 mm	VJT0284

Horizontal Settlement Measurement		
Part No	Specification	Bracket/Adaptor
VJT0110-M	Mechanical Dial Gauge, 25 mm travel x 0.01 mm divisions	Included
VJT0110-MIT	Digital Dial Gauge, range 0 - 25.4 mm x 0.001 mm resolution	Included
VJT0271	Displacement LSCT Transducer, range 25 mm	VJT0284



VJT2761S - Shearbox Assembly for 60 mm circular sample kit

Accessories			
Sample Size	60 mm sq.	60 mm dia.	100 mm sq.
Shear Box assembly (including stone)	VJT2761S	VJT2761D	VJT2762S
Cutter	VJT2552.06S	VJT2552.06D	VJT2552.10S
Dolly	VJT2553.06S	VJT2553.06D	VJT2553.10S
Stone (porous plate)	VJT2554.06S	VJT2554.06D	VJT2554.10S
Sample Size	100 mm dia.	2.5" sq.	2.5" dia.
Shear Box assembly (including stone)	VJT2762D	VJT2763S	VJT2763D
Cutter	VJT2552.10D	VJT2552.2.5S	VJT2552.2.5D
Dolly	VJT2553.10D	VJT2553.2.5S	VJT2553.2.5D
Stone (porous plate)	VJT2554.10D	VJT2554.2.5S	VJT2554.2.5D

Horizontal Load Measurement			
Range	2 kN	2.5 kN	3 kN
Load Ring with mechanical dial gauge	VJT0202	-	VJT0203
Load Ring with digital dial gauge	VJT0202-MIT	-	VJT0203-MIT
S Beam Load Cell	-	VJTS0360	-

Range	5 kN	Bracket/Adaptor
Load Ring with mechanical dial gauge	VJT0205	N/A
Load Ring with digital dial gauge	VJT0205- MIT	N/A
S Beam Load Cell	VJTS0361	VJT2700C

Weights	
VJT0727	Slotted Weight 10kg
VJT0728	Slotted Weight 5kg
VJT0729	Slotted Weight 2kg
VJT0730	Slotted Weight 1kg
VJT0650-100W	Weight Set: 9 x 10kg, 1 x 5kg, 2 x 2kg, 1 x 1kg
VJT0650-50W	Weight Set: 4 x 10kg, 1 x 5kg, 2 x 2kg, 1 x 1kg

