Large Shear Box Pro Testing 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 electro-mechanical Large Shear Box Pro is specifically designed for testing specimens with large particle sizes for sample sizes up to 300 mm square, with height 150 mm (default).

Both Horizontal and Vertical loads are applied electro-mechanically, with both axes capable of applying 100 kN.

VJT-csSHEAR Software is used for automated operation and control providing live data views, graphs and tables.

Ordering Information

Main Instrument

VJT2780A-P	Large Shear Box Pro

Alternative Sample Size Shear Boxes*

VJT2785	100 mm x 100 mm Shear Box Assembly
VJT2782	150 mm x 150 mm Shear Box Assembly
VJT2783	200 mm x 200 mm Shear Box Assembly

Transducers

VJTS0366	100 kN S-Beam Load Cell
VJTS0365	50 kN S-Beam Load Cell
VJT0273	100 mm LSCT Displacement Transducer
VJT0272	50 mm LSCT Displacement Transducer

Software

VJT-csSHEAR	Clisp Studio Direct/Residual Shear Software

*Smaller size sample boxes need adaptors to comply with BS EN ISO 17892-10 : 2018 (available on request)
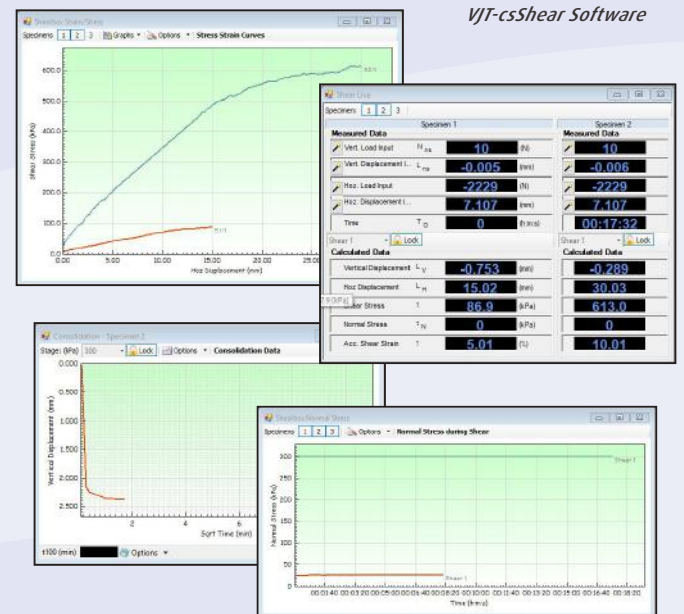
Features

- Normal sample size 300 mm (square) (100, 150 mm and 200 mm square sizes also available)
- 100 kN Vertical Pancake Load Cell included (50 kN optional)
- 100 kN vertical (consolidation) force
- 100 kN horizontal (shear) force
- 60 mm Horizontal travel (displacement)
- Built-in 5 channel data acquisition
- Ethernet or USB interface for PC control
- Integrated 7" Touchscreen Colour Display for Standalone use without PC Control if required
- On-board data logging (16GB standard) able to store thousands of Tests, each with thousands of data points
- High Speed sensor conversion (24 bit, up to 5000 samples/sec)
- Data export to PC for manipulation within Excel
- Built-in live data table and graphs

VJT2780A-P - Large Shearbox Pro

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

VJT-csShear Software

Specifications

Horizontal Travel	60 mm
Rate of Strain	0.00001 to 10.00000 mm/min
W x D x H	1630 x 650 x 1500 mm
Weight	775 kg
Power	220-240V, 50/60Hz, 1 ph

VJ Tech