ACONS2 – Motorised Automatic Consolidation

Related Standards: BS 1377-5 : 1990; ASTM D4235-04; AS 1289.6.6.1; XP PG4-090-1

Our new ACONS2 System makes things easier for automated Consolidation testing by using a stepper motor, so that a compressed air supply is no longer required.

It also comes with an RS232, Wi-Fi or USB Interface for computer control using our renowned Clisp Studio software (RS232 or USB recommended), and an optional 7" Touchscreen Colour Display with Wi-Fi or USB Connection for remote control.

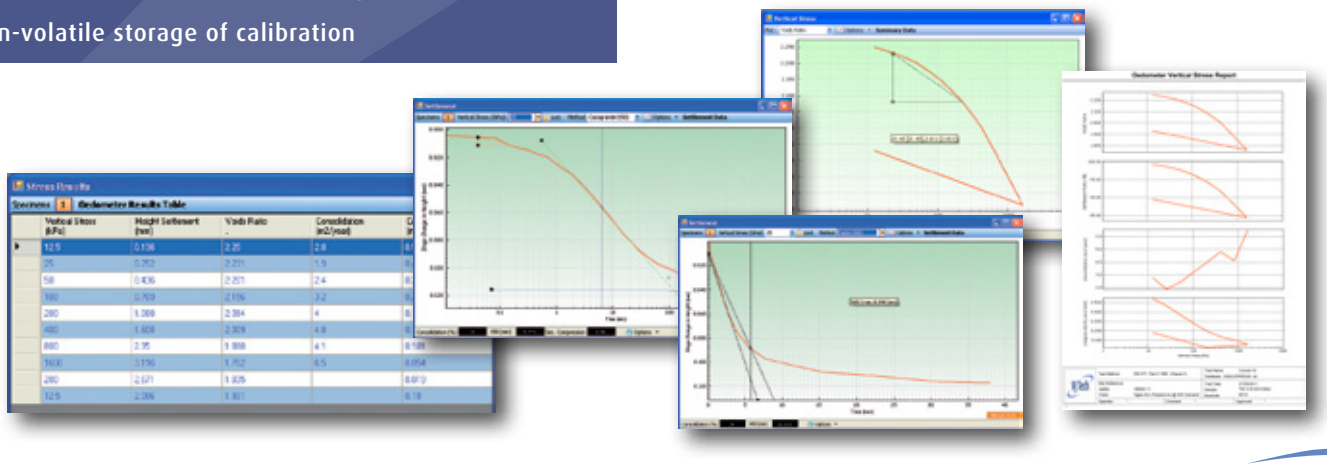
Features

- Compact design (small footprint)
- RS232 or USB Interface recommended for PC control
- Optional 7" Remote Touchscreen display with Wi-Fi or USB connection
- Supports CRS Testing
- Stepping motor for applying Load increments
- Includes 15 kN Load cell
- Accepts consolidation cells 50mm to 100mm (supplied separately)
- Built-in high accuracy Digital Dial Gauge interface for displacement sensor
- Built-in LSCT interface for displacement sensor
- Built-in Mitutoyo Digital Dial Gauge interface
- Over range and travel limit protection
- Multiple ACONS2 can be daisy chained and controlled from single PC (RS232 only)
- High Resolution 24 bit A/D converter
- Built-in battery backed real time clock
- Transducer calibration from/to Clisp Studio
- Non-volatile storage of calibration

VJT9105 - ACONS2 Motorised Automatic Consolidation System

VJT-csODO: Clisp Studio Oedometer Software

- User defined loading & unloading increments
- Automatic loading (subject to software)
- On screen measurement of T50 & T90 values
- 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 and test export & import
- Customised reports (at additional cost)



VJ Tech

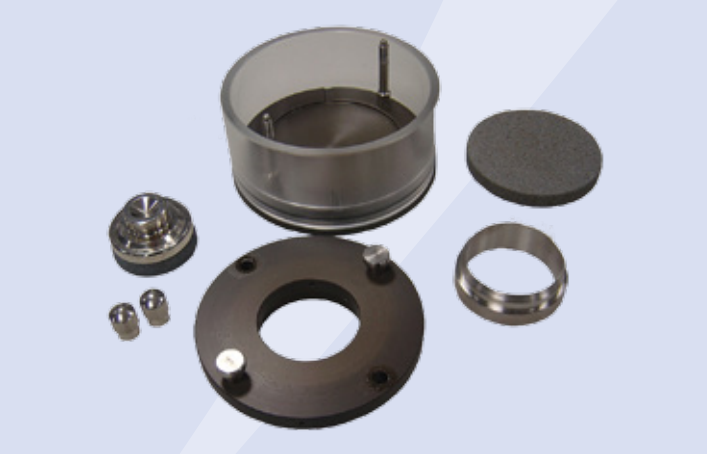
ACONS2 - Motorised Automatic Consolidation

Ordering Information	
VJT9105	Motorised Automatic Consolidation System (ACONS 2)

Accessories	
VJT0650M	ACONS2 Motorised Automatic Consolidation Frame
VJT0110-MIT	Digital Dial Gauge, 25mm X 0.001 mm with 2 metre cable
VJT0271	Displacement transducer, 25 mm with cable and 5-pin DIN plug
VJT0284	Transducer Bracket for LSCT transducer
VJT1010	Wi-Fi enabled Remote Display with pre-installed application
VJT1011	Router (only one required per laboratory)
VJT-csODO	Clisp Studio Oedometer Software

Specifications					
Sample Diameter	50 mm	2.5"	70 mm	75 mm	100 mm
Maximum Load (kPa)	8000	4800	4000	3500	2000
Maximum Frame Capacity	15 kN				
Resolution	1N				
Accuracy	0.15% FRO				
Adjustable Displacement Rate	0-10.0000 mm/min				
Fast Approach Speed	40.000 mm/min				
Connectivity	RS232, Wi-Fi or USB				
Power Supply	DC Adaptor (Output 24VDC, Input 90-240V, 50/60Hz, 1ph.)				
Dimensions (W x D x H)	280 mm x 400 mm x 640 mm				
Weight	29.1 kg				

Consolidation Cells



Our fixed ring cells are made from corrosion-resistant material.The soil sample is placed on the lower porous disc with the cutter ring surrounding it.

The cell ring then clamps down the cutter ring and the pressure pad (which has the upper porous disc attached to it) is placed over the sample. The whole of this assembly is enclosed within a Perspex cylinder.

Accessories					
Sample Diameter	50 mm	2.5"	70 mm	75 mm	100 mm
Complete Cell	**VJT0655**	**VJT0660**	**VJT0651**	**VJT0665**	**VJT0665 -100**
Upper Porous Disc	**VJT0656**	**VJT0661**	**VJT0652**	**VJT0666**	**VJT0666 -100**
Lower Porous Disc	**VJT0657**	**VJT0662**	**VJT0653**	**VJT0667**	**VJT0667 -100**
Cutting Ring	**VJT0658**	**VJT0663**	**VJT0654**	**VJT0668**	**VJT0668 -100**
Calibration Disc	**VJT0659**	**VJT0664**	**VJT0649**	**VJT0669**	**VJT0669 -100**

Note: Alternative/custom sample sizes on request.

ACONS 2 "7" Touchscreen Colour Display Control Screen