EN Concrete Compression Machines

Related Standards: EN12390-3 & 4

VJ Tech compression machines are manufactured to strict quality control systems and EN standards to ensure reliability. All frames are of heavy duty welded steel construction and supplied as standard with a rapid approach pump. The machine, together with the digital readout unit is works calibrated and supplied with certificates. The integral load pacer, together with a large LED error band display, enables the operator to maintain accurate pace control in Manual mode, if Automatic control is not required.

The optional distance pieces are 205 mm in diameter and are designed to reduce the clearance of the upper platen to the top surface of the specimen.

The VJ Tech range of concrete compression machines may also be used for strength testing rock samples in Hoek Cells.

Note: The VJT51-xxx range of Concrete Compression Machines & Accessories replaces the VJT6000 series

Features

- EN stability tested
- Unattended operation
- Automatic control of load at selected pace rate
- User programmable rapid approach start/stop conditions
- Automatic stop on sample failure
- Capable of testing both cubes and cylinders (multiple preset or User defined dimensions)
- Welded steel frame construction
- Rapid approach pump as standard
- Perspex safety door
- Upper and lower platens are tested for hardness, flatness and surface texture
- Self-aligning ball seat
- Large graphics LED display (75 x 125mm)
- Built-in speed control pot for manual use if required
- Low noise stepper motor controlled hydraulic power pack
- Vertical clearance to allow both cubes and cylinders
- Memory storage for up to 150 results
- RS232 serial port for computer or printer



VJT51-2011 - 2000kN Automatic Concrete Machine (Autocon)



VJT51-2011 - 2000kN Autocon Front Panel

Ordering Information						
Model Number	VJT51-2011	VJT51-3011				
Capacity	2000 kN	3000 kN				
Specification						
Capacity	2000 kN	3000 kN				
Low Range	0 – 400 x 0.1kN	0 – 400 x 0.1kN				
High Range	400 – 2000 x 1kN	400 - 3000 x 1kN				
Flexural Range	0 – 100 x 0.01kN	0 – 100 x 0.01kN				
Maximum Vertical Clearance	350 mm	350 mm				
Piston diameter	250 mm	300 mm				
Maximum piston move- ment	50 mm	50 mm				
Power	240V 50 Hz 1ph	240V 50 Hz 1ph				
Dimensions (W x L x H)	mm 940 x 500 x 970	1000 x 540 x 1050				
Weight	770 kg	1070 kg				
Accessories						
VJT51-0032	Distance Piece 205 mm	Dia. x 30 mm high				
VJT51-0052	Distance Piece 205 mm	Dia. x 50 mm high				
VJT51-0092	Distance Piece 205 mm	Dia. x 90 mm high				



Clisp Studio – csCON Software

The VJ Tech Clisp Studio User friendly Concrete Software module enables you to perform concrete compression tests to evaluate the strength of concrete. The software is used with both the VJ Tech EN or ASTM Automatic Compression machines (available for 2000kN & 3000kN).

Features

- Automatic test control
- Switchable between a number of different languages
- Easy test setup using wizard style Assistant
- User configurable data logging
- Customisable System Units
- Live View of Test, Instrument and Transducer Status
- Live Autocon Test Data View (Load Transducer, Current Setpoint, Stress)
- Live graphical display of Autocon Load and Time Curve (Elapsed Time vs Load Transducer)
- Live tabular display of logged and calculated data (Elapsed Time, Load Transducer)
- Final Test Results Display (Peak Measured Load & Maximum Stress)
- User configurable views, graphs and tables (customisable from Input, Measured and Result data)
- Data Export to Excel
- Entire Test export and import using scripts
- Predefined summary presentation report
- Customised presentation reports on request
- Tests can be set up and run on an individual client and job basis with a dummy borehole and sample
- E-mail Test Status if requested

Ordering Information

VIT-csCON Clisp Studio Concrete Testing Software



 Windon Live
 Image: Bandon Autocon Load and Time Curve

 Image: Bandon Autocon Time Data

Load Transducer	kN IP	1248 K	N)
Current Setpoint	T,	890 (*	N)
Stress	σ	55 43	(Pa)

	Elapsed Time 1 (homos)	Losd Transducer kN (kN)	Error high band T (kN)	Error low band T (kN) Io	1
1	00:00:00	11.3	4	4	
2	00:00:10	89.4	59	49	
3	00:00:20	147.6	114	94	
4	00:00:30	218.0	169	329	
5	00:00:40	287.9	224	184	
6	00:00:50	358.2	279	229	
7	00:01:00	429	334	274	
8	00:01:10	497	389	319	
9	00:01:20	569	646	364	
10	00:01:30	638	495	405	
11	00:01:40	708	554	454	
12	00:01:50	778	609	499	
13	00:02:00	849	664	544	
14	00:02:10	918	715	589	
15	00:02:20	988	774	634	٦,
16	00:02:30	1059	829	679	
17	00:02:40	1128	834	724	
18	00:02:50	1198	939	769	
19	00:03:00	1268	994	814	
20	00:03:10	1337	1049	859	
21	00:03:20	1408	1104	904	

🛃 Logged D

