Geocomp

Test Smart. Test with Confidence. Test for Success.

UNCONFINED COMPRESSION
LOADTRAC III

The LoadTrac III load frame performs unconfined compressive strength testing under fully automated control with convenient remote monitoring and instant test results. The unconfined compression test allows you to quickly measure the compressive strength for cohesive soils and is a core offering for most laboratories. Once a soil sample is in place, and the test conditions selected, the system will run the entire test from start to finish.

- **Load capacity up to 11 kN (2.5 klbf)**
- **Unmatched automation from test start to finish** - *2 to 32 times faster results and labor time savings of 30% to 95% vs. manual testing*
- **Flexible design** - *perform additional testing on the same platform and save money and space in your lab*
- **Full test control and remote monitoring allows you to take your testing on the go** - *view real-time results, check test quality, and change parameters*
- **Convenient reporting** - *produce complete, compliant reports instantly or export data for desired manipulation*
- **Designed for consistent and repeatable testing you can be confident in**

Applicable Test Standards

- ASTM D1663, D2166
- AASHTO T208

Standard Unconfined Compression System

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TECHNICAL SPECIFICATIONS

LOAD CAPACITY
Up to 11 kN (2.5 klbf)

MOTOR
Micro-stepper system with built-in controls

RATE OF DISPLACEMENT
0.000013 to 42 mm per minute
(0.000001 to 0.6 in per minute)

TRAVEL
38.1 mm (1.5 in)

POWER
110/220 V, 50/60 Hz, 1 phase

DIMENSIONS
305 x 381 x 838 mm (12 x 15 x 33 in)

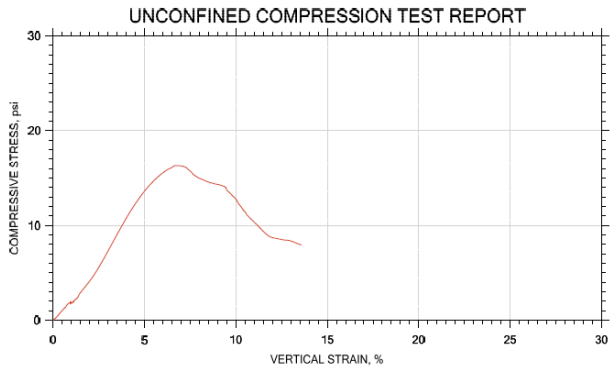
WEIGHT
20 kg (44 lbs)

INCLUDED
- Geo-NET network card and cable to link to PC
- UC software module to automatically run and report tests

ACCESSORIES
- UC.REPORT: editing/reporting software for multiple tests

WARRANTY
- 12 month warranty; extended warranties available

Typical Test Output (example)



Symbol					
Test No.		UC-1			
Initial	Diameter, in	2.87			
	Height, in	5.98			
	Water Content, %	25.00			
	Dry Density, pcf	95.80			
	Saturation, %	88.87			
	Void Ratio	0.76			
Unconfined Compressive Strength, psi		16.34			
Undrained Shear Strength, psi		8.169			
Time to Failure, min		8.3409			
Strain Rate, %/min		1			
Estimated Specific Gravity		2.70			
Liquid Limit		41			
Plastic Limit		22			
Plasticity Index		19			
Failure Sketch					

Geocomp	Project: XYZ Bridge	Location: Anywhere, USA	Project No.: GTX-0000
	Boring No.: B-1	Tested By: MD	Checked By: JDT
	Sample No.: S-1	Test Date: 02/15/2018	Elevation: ---
	Test No.: UC-1	Preparation: Tube	Depth: 10-12 ft
	Description: Moist, gray clay		
	Remarks: System A		

User Friendly Interface