

## TRIAXIAL

## LOADTRAC III / FLOWTRAC II OR III

The LoadTrac III / FlowTrac II or III system for triaxial testing offers an affordable, high-quality solution for any lab setting. It performs Unconsolidated Undrained (UU), Consolidated Undrained (CU) and Consolidated Drained (CD) testing. Once the sample is placed and test parameters set, the system automates all phases of the test from start to finish - initialization, saturation, consolidation (isotropic, anisotropic, or Ko) and shear. The LoadTrac III and FlowTrac II or III units take minimal space, require no external connections other than water source, and need minimal maintenance. Additional common test methods can easily be added (1-D Incremental Consolidation, CRS Consolidation, Unconfined Compression), which makes return on investment best on the market.

- Built in safety features
- Smart and sophisticated technologies to simplify testing
- Repeatable, reliable, and accurate results you can trust
- Real-time and remote test parameter changes for quality control
- Convenient reporting and data export
- Faster, smarter, better: designed with full automation and manual control options
- Easy upgrade to perform additional test types
- Designed and manufactured in the USA

## **Applicable Test Standards**

- ASTM D2850, D4767, D7181
- AASHTO T296, T297
- BS 1377-6, BS 1377-7, BS 1377-8
- ISO/TS 17892-8, ISO/TS 17892-9
- AS 1289.6.4.1, AS 1289.6.4.2



Standard Triaxial System

## **TRIAXIAL** LOADTRAC III / FLOWTRAC II OR III



TECHNICAL SPECIFICATIONS	Typical Test Output (example)
	Consolidated Undrained by ASTM D4767
Up to 11 kN (2.5 klbf)	4 + - + - + - + - + - + - + - + - + - +
MOTORS	3 (Max Obliquity
Micro-stepper system with built-in controls	
RATE OF DISPLACEMENT	
0.000013 to 42 mm per minute	
(0.0000005 to 1.6 in per minute)	p*, tsf Axial Strain, % Symbol Sample ID U-3 U-3 U-3 U-3 U-3
PRESSURE/VOLUME CAPACITY	Depth         10-21*         2+48 #         593.31           Tern Number         CX64-1         CX64-2         CX64-3           Height in         4.230         4.100         4.200           Dimenser, in         2.2010         2.2010         2.2010
<ul> <li>150 psi (1035 kPa) / 200 cc</li> <li>200 psi (1400 kPa) / 250 cc</li> <li>200 psi (1400 kPa) / 750 cc</li> </ul>	Image: Section 2014 (Section 2014)         31.4         32.0         52.8           If Dynamics, product 2014         50.1         52.0         60.5           Sauration (VeX Method), %         53.6         99.6         99.5           Void Ratio         0.53.9         0.54.4           Mosture Content, 14         22.8         53.2         22.4           Mosture Content, 14         22.8         3.53.2         22.4           Mosture Content, 14         22.8         3.53.2         22.4           Sourcision, 15, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
FLOW RATE	Back Presents thr         9.962         9.962         10.07           Versical Effective Consolidation Stress, thr         0.7355         2.882         5.035           Honomal Effective Consolidation Stress, thr         0.3922         1.964         3.263           Versical Stress and consolidation Stress, thr         0.3522         1.964         3.263
Min Speed 0.0003 cc/min 0.00001 fl oz/min Max Speed 1054 cc/min 36 fl oz/min	Volumetric Stran after Consolitation, Vi         1,522         9,598         14.19           Time to SSVn. Consolitation, min         0,000         0,000         0,000         0,000           Silead Strengh, tof         0,2242         0,425         1,272           Strain Fallure, Vi         4,35         6,58         7,65           Detain Rate, Ximin         0,0100         0,0100         0,0100           Detain Rate, Ximin         0,4435         1,455         2,244
TRAVEL	Effective Micro Principal Stress at Falure, tot         0.1331         0.6298         1.163           Effective Micro Principal Stress at Falure, tot         0.3516         2.106         3.708           B-Value         0.35         0.59         0.95
38.1 mm (1.5 in)	Note:
POWER	Visuar for c and a deemend the head if an apt is for the quarks but accelerate.     Accelerate the set of
110/220 V, 50/60 Hz, 1 phase	Project Name: ABC Project         Location: Anywhere, USA         Project Number: TRIAV-1234           Boring Number: B-1         Tester verx         Checker; yz
DIMENSIONS	Sample Number: U-3 Text Date: 0218/01/8 Depth: 10-12 # Text Number: CKuU-1 Preparation: tube Elevation: Not Recorded Decorption: Mode: gay day
LoadTrac III         FlowTrac II         FlowTrac III           305 x 381 x 838 mm         203 x 406 x 470 mm         203 x 457 x 260 mm           (12 x 15 x 43 in)         (8 x 16 x 18.5 in)         (8 x 18 x 10.25 in)	Typcial Test Output (example)
WEIGHT	Consolidated Undrained by ASTM D4767
LoadTrac IIIFlowTrac IIFlowTrac III20 kg (44 lbs)14 kg (30 lbs)11 kg (25 lbs)	
INCLUDED	Sa S
<ul> <li>GeoNet-U USB 2.0 network adapter and cable to link to PC/laptop</li> <li>UU, CU &amp; CD software modules to automatically run and report tests</li> </ul>	
ACCESSORIES	0 + +
<ul> <li>Triaxial cell for samples up to 2.0" (50.8 mm) diameter</li> <li>Membranes, porous stones, and sample preparation accessories upon request</li> <li>Software modules and equipment to perform additional test methods 1-D Incremental Consolidation, CRS Consolidation and Unconfined Compression</li> </ul>	3 Max. Obliquity d' = 0.0555  trif q' = 30.3 $\tan q' = 0.58$
WARRANTY	τ <u>σ</u>
12 month warranty; extended warranties available	
User Friendly Interface	
File View Run Calibrate Control Report Options Help           Saturation         Consolidation/B Table         Shear Table	p <sup>1</sup> , tsf Sample No. Test No. Depth Tested By Test Date Checked By Check Date Test File
Project Specimen Water Content Read Table Test Parameters Initialization Consolidation /A Table	■         U-3         Crici-1         10-12 h         vmr.         00180218         yr.         002180218         Crici-1-Ast           ●         U-3         Crici-2-3         24-26 h         vmr.         02180218         yr.         02180218         Crici-1-Ast           ▲         U-3         Crici-3-3         56-22 h         vmr.         02180218         yr.         02180218         Crici-3-Ast
Start Phase:	Project Name: ABC Project         Location: Anywhere, USA         Project Number: TRUX:1234           Boring Number: B-1         Teatr: vmx         Checker: yr           Sample Number: U-3         Test Date: 2018/2018         Depth: 10-12 /t           Test Number: CNU-1         Progradion: Live         Elevation: Nor Recorded
Test Type: Consolidated Undrained  Test Standard: ASTM D4767	Description Most, gray olay Remarks:

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Time to 50% Consolidation: 0

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