



IF IT'S WORTH BUILDING, IT'S WORTH TESTING

This wishlist was generated on 16/05/2016, and contains the following Products:

26-2114/02

Digital Direct/Residual Shear Apparatus Complete with Lever Loading Assembly. 110-120V 50/60Hz 1Ph.

2000/02

Tri-Flex 2 One-Cell Triaxial Test Set 110 vAC English

25-0698

Tri-Flex 2 Water De-airing Tank System

25-0696/02

Tri-Flex 2 Master Control Panel, English 110vAC

25-0699

Auxiliary Control Panel

88-3110/02

High Vacuum Pump

25-3518/02

Digital Tritest 50 Load Frame 110-120vAC

88-4100

Dial Indicator - 1.0" Range

27-1108/02

2 Channel Digital Readout, English

25-4159

4" Triaxial Cell

25-4159/10

1.4" Acrylic Specimen Cap and Base Set

25-4159/11

2.8" Acrylic Specimen Cap and Base Set

25-0402

Consolidation Frame One Dimensional Consolidation Incremental Loading Device.

25-0429

Floor Mounting Stand.



Digital Direct/Residual Shear Apparatus Complete with Lever Loading Assembly. 110-120V 50/60Hz 1Ph.

Code: 26-2114/02

Product Group: Direct/Residual Shear Apparatus,
Direct/Residual Shear Apparatus

- Microprocessor control
- Large on-board LCD screen display
- Direct entry via touch sensitive keyboard
- Rapid approach and return to start datum
- Fully variable speed, 0.00001 to 9.99999 mm/minute
- Accepts specimens up to 100 mm square

The ELE Direct Shear Apparatus accepts specimens 60 mm, 100 mm square or 2.5 inches in diameter. The use of a microprocessor controlled drive system and keyboard entry gives the apparatus a wide range of features that include pause and speed reset during test, RS 232C interface, operator programming of speed and control functions, self test diagnostics and many other features. A return to start datum provides a positive means of reversing the shearbox when either preparing for a new test or continuing with residual testing procedures.

Safety forward/reverse travel limit switches are fitted as standard and monitored through the electronics system control.

The electronics are housed in a modern moulded shroud, which includes a large LCD display and keyboard entry. The apparatus is enclosed in a robustly constructed case, has been designed for floor mounting and is supplied complete with carriage, loading hanger and 10:1 lever loading device

Standards

ASTM D3080, AASHTO T236

Further Information

for 110 - 120 V AC, 50 - 60 Hz, 1 ph.

Specification

Sample Size

Accepts either 2.42", 2.5" diam.; 60 mm square samples using accessory shear box assemblies, not included.

Speed Range

Variable in either English or Metric units between

Product Sheet

www.ele.com
+44 (0) 01525 249 200



Shear Force	0.000001" (0.00001 mm) to 0.399999" (9.99999 mm) per minute.
Vertical Load	1,000 lbf. (4.5 kN) maximum. 2,200 lbf. (1,000 kN) using 10:1 lever ratio.
Dimensions	44.7" l. x 12 .6" w. x 49.6" h. (1,135 x 320 x 1,260 mm).
Weight	Net 181 lbs. (82 kg).

Spares/Consumables



Dial Indicator - 1.0" Range

Code: [88-4100](#)



Tri-Flex 2 One-Cell Triaxial Test Set 110 vAC English

Code: 2000/02

Product Group: Tri-Flex 2 One-Cell Triaxial Test Set

SET INCLUDES:

- 1 - Tri-Flex 2 Master Control Panel (25-0696/0x or 25-0697/0x).
- 1 - Tri-Flex 2 Water De-airing Tank System (25-0698).
- 1 - Digital Tritest 50 Load Frame (25-3518/0x).
- 1 - Proving Ring, 1,000 lb. (4.5 kN) (78-0260).
- 1 - Strain Dial Indicator (88-4100 or 25-4210).
- 1 - Digital Pressure Gauge (27-1620).
- 1 - Triaxial Cell (25-4117).
- 3 - No-Volume Change Valves (25-4520).
- 1 - 2.8" or 70 mm Base Pedestal (25-4178 or 25-4176).
- 1 - 2.8" or 70 mm Specimen Cap (25-6630 or 25-6430).
- 2 - 2.8" or 70 mm Drainage Lines (25-6430/10).
- 1 - 2.8" or 70 mm Porous Stones. Pack of 2 (25-6721 or 25-6561).
- 1 - 2.8" (70 mm) Sealing Rings. Pack of 10 (25-6641).
- 1 - 2.8" (70 mm) Filter Paper Drains. Pack of 50 (25-6580).
- 1 - 2.8" (70 mm) Filter Paper Discs. Pack of 100 (25-6585).
- 2 - 2.8" (70 mm) Rubber Membranes. Pack of 10 (25-6441).
- 1 - 2.8" (70 mm) O-ring Placing Tool (25-6470).
- 1 - 2.8" (70 mm) Membrane Tester (25-6443).
- 1 - 2.8" (70 mm) Two-Part Split Mold (25-6690).
- 1 - 2.8" (70 mm) Suction Membrane Device (25-6480).
- 1 - 2.8" (70 mm) Two-Way Split Former (25-6680 or 25-6500).

Standards

ASTM D2850, ASTM D4767, AASHTO T296, AASHTO T297

Further Information

110vAC, 50/60 Hz, 1".



Tri-Flex 2 Water De-airing Tank System

Code: 25-0698

Product Group: Tri-Flex 2 Auxiliary Control Panel,
Tri-Flex 2 Master Control Panel, Tri-Flex 2 Water
De-Airing Tank System, Tri-Flex 2 One-Cell
Permeability Test System

Standards

ASTM D2850, ASTM D4767, ASTM D7181, ASTM D5084, AASHTO T296, AASHTO T297

Specification

Construction	Clear acrylic construction with stainless steel threaded clamping rods.
Seals	O-ring, top & bottom.
Relief Valve	Preset at 10 psi (69 kPa).
Capacity	1.4 gals. (5.3 litres).
Dimensions	6" diam. x 16" (152.4 x 406.4 mm).
Weight	Net 7.5 lbs. (3.4 kg).



Tri-Flex 2 Master Control Panel, English 110vAC

Code: [25-0696/02](#)

Product Group: [Tri-Flex 2 Master Control Panel](#)

Standards

ASTM D2850, ASTM D4767, ASTM D7181, ASTM D5084, AASHTO T296, AASHTO T297

Further Information

110vAC, 50/60 Hz, 1Ø.

Specification

Measurement Range	10-4 to 10-10 cm/sec.
Master Regulator	2 to 150 psi (14 -1,034 kPa), dual scale.
Master Pressure Gauge	2 to 160 psi (14 -1,103 kPa), dual scale.
Master Vacuum Gauge	0 to -30 inches of Hg (0-100 kPa), dual scale.
Digital Pressure Meter	English: 2 to 15 0 psi range; $\hat{A}\pm 0.1$ psi; $\hat{A}\pm 0.25$ % accuracy full scale. Metric: 14 to 1,034 kPa range; $\hat{A}\pm 1$ kPa; $\hat{A}\pm 0.25$ % accuracy full scale.
Burette Pressure Regulators	Three; 2 to 15 0 psi (14 -1,034 kPa).
Burette/Annulus	Three; 25 /400 ml capacity with 0.1 ml burette graduations.
Utilities Required	Water, vacuum, Dry air pressure, drain and AC power supply.
Dimensions	21 ˆ w. x 36-3/4ˆ h. x 7ˆ d. (17ˆ d. with legs); (533 x 933 x 178 mm).

Product Sheet

www.ele.com
+44 (0) 01525 249 200



Weight

Net 50 lbs. (22 .7 kg).



Auxiliary Control Panel

Code: [25-0699](#)

Product Group: [Tri-Flex 2 Auxiliary Control Panel](#),
[Tri-Flex 2 Master Control Panel](#)

For two additional triaxial cells

Standards

ASTM D2850, ASTM D4767, ASTM D7181, ASTM D5084, AASHTO T296, AASHTO T297

Further Information

Tri-Flex 2 Master Control Panel required for operation.

Specification

Measurement Range	10-4 to 10-10 cm/sec.
Burette Pressure Regulators	Six; 2 to 15 0 psi (14 -1,034 kPa).
Burette/Annulus	Six; 25 /400 ml capacity with 0.1 ml burette graduations.
Utilities Required	Water, vacuum, Dry air pressure and drain through connection to the Master Control Panel.
Dimensions	27" w. x 36-3/4" h. x 7" d. (17" d. With legs); (686 x 933 x 178 mm).
Weight	Net 80 lbs. (36.3 kg).



High Vacuum Pump

Code: 88-3110/02

Product Group: Tri-Flex 2 Master Control Panel, High Vacuum Pump

115vAC, 50/60 Hz, 1Ø.

Specification

Free Air Display

85 liters per minute (3 cu. ft. per minute).

Ultimate Vacuum

29.95 inches of mercury.

Motor/Pump

1/3 hp; speed 1725 rpm.

Operating Temperature

30°F to 170°F (0°C to 78°C).

Intake Port

1/4" o.d. for 1/4" tubing.

Dimensions

11 - 1/4" h. x 15 - 1/2" l. x 6 - 1/2" w. (29 x 39 x 16 cm).

Weight

Net 28 lbs. (12.7 kg).

Digital Tritest 50 Load Frame 110-120vAC

Code: [25-3518/02](#)

Product Group: [Digital Tritest 50 Load Frame](#)



Standards

ASTM D1883, ASTM D2166, ASTM D2850, ASTM D4767, ASTM D7181, AASHTO T99, AASHTO T134, AASHTO T135, AASHTO T136, AASHTO T180, AASHTO T193, AASHTO T208, AASHTO T296, AASHTO T297

Further Information

110vAC, 50/60 Hz, 1Ø, 300 Watts.

See Data Acquisition section for electronic load and strain measurement options.

Specification

Capacity	11 ,200 lbf. (50 kN).
Speed Range	English mode: 0.000001 to 0.399999 in/min. Metric mode: 0.00001 to 9.99999 mm/min.
Rapid Approach Speed	2.0 in/min. (50 mm/min.).
Platen Travel	3.9" (100 mm); limit switch protection.
Vertical Clearance	35 .8" (910 mm) maximum; 12 " (305 mm) minimum.
Horizontal Clearance	14 .3" (364 mm).
Serial Interface	RS232 C; programmable baud rate and protocol.
Overall Dimensions	19.7" w. x 19.7" d. x 57.8" h. (500 x 500 x 1,470 mm).
Weight	Net 220 lbs. (100 kg); Shpg. 300 lbs. (136 kg).

Spares/Consumables



Dial Indicator - 1.0" Range

Code: [88-4100](#)



Dial Indicator - 1.0" Range

Code: 88-4100

Product Group: Digital Tritest 50 Load Frame, Hveem Stabilometer, CBR Loading Press, Hand-Operated, Tripod Attachment, CBR-Test 50 Machine, Mechanical Dial Indicators, Direct/Residual Shear Apparatus

1.0" x 0.001" divisions.

Specification

Range	1.0"
Divisions	0.001"
Movement	Clockwise
Face Diameter	2-1/4"
Contact Point	Immediate response, up or down; tip movement magnified to indicator hand with minimal friction; 3/16" (5 mm) radius x 1/4" (6 mm) l.
Dials	With continuous graduations and revolution counters.
Measure Movement	Measure movement towards dial case; pointer at zero with stem extended.
Weight	Net 12 oz. (340 g).



2 Channel Digital Readout, English

Code: 27-1108/02

Product Group: Digital Load and Displacement
Readout, Versa-Loader, Digital Tritest 50 Load Frame

Transducers to be ordered separately. English units.

Further Information

110vAC, 50/60 Hz, 1Ø.

Specification

Displays	Two, 4-digit red 14 segment LED displays.
Display Units	English models in lbf and inches; Metric models in kN and mm.
Read Rate	Three samples per second; automatic polarity.
Warm-Up Time	30 minutes for rated accuracy.
Operating Temperature	32 °F - 120 °F (0°C - 50°C).
Dimensions	9.3" w. x 9.3" d. x 3.2" h. (236 x 236 x 81.3 mm).
Weight	Net 8 lbs. (3.6 kg).



4" Triaxial Cell

Code: [25-4159](#)

Product Group: [Tri-Flex 2 Triaxial Cell](#)

Standards

ASTM D2850, ASTM D4767, ASTM D7181, AASHTO T296, AASHTO T297

Further Information

less accessories, order separately.

Specification

Maximum Working Pressure	15 0 psi (1,034 kPa).
Maximum Piston Load	10,100 lbf. (45 kN).
Head Assembly	Anodized aluminum with quick-disconnect fill/vent port and dial gauge support assembly.
Head Assembly	Sealed, with linear bearings and piston locking clamp.
Piston Assembly	Stainless steel with four stainless steel no-volume change ball valves at inflow and outflow ports and one brass ball valve at the lateral port. All included tubing is of either stainless steel or Teflon construction.
Base Assembly	Stainless steel with four stainless steel no-volume change ball valves at inflow and outflow ports and one brass ball valve at the lateral port. All included tubing is of either stainless steel or Teflon construction.
Dimensions	Approx. 8" diam. x 18" h. (203 x 458 mm) excluding valves.
Weight	Net 25 lbs. (11.3 kg).

Spares/Consumables



Spare Trixial Cell Top

Code: [T-780](#)



1.4" Acrylic Specimen Cap and Base Set

Code: [25-4159/10](#)

Product Group: [Tri-Flex 2 Triaxial Cell](#)

Standards

ASTM D2850, ASTM D4767, ASTM D7181, AASHTO T296, AASHTO T297

Further Information

Includes drainage lines



2.8" Acrylic Specimen Cap and Base Set

Code: [25-4159/11](#)

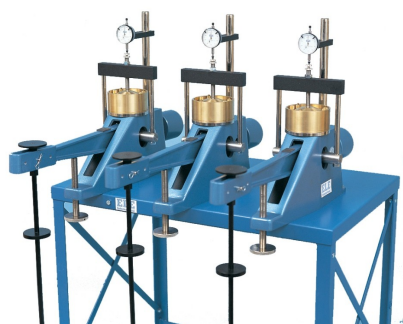
Product Group: [Tri-Flex 2 Triaxial Cell](#)

Standards

ASTM D2850, ASTM D4767, ASTM D7181, AASHTO T296, AASHTO T297

Further Information

Includes drainage lines



Consolidation Frame One Dimensional Consolidation Incremental Loading Device.

Code: 25-0402

Product Group: Consolidation Apparatus, Table Top Consolidation Apparatus

- High capacity - 8800 kPa on 50 mm diameter specimens using 11:1 beam ratio
- Triple beam ratio, 9:1, 10:1, 11:1
- Compact unit ensures maximum space saving

The ELE Oedometer is rigidly constructed to ensure minimum frame distortion. The frame is designed to load the specimen through a yoke assembly and one of three alternative beam ratios. The beam is fitted with a counterbalance weight and beam support jack. The cell platform will accept the complete range of ELE consolidation cells and is fitted with a central spigot to ensure accurate centring of the cell under the loading yoke. Dimensions without hanger 711 x 203 x 508 mm (l x w x h). Weight 22 kg.

Standards

BS 1377, EN 1997-2, ASTM D2435, ASTM D4546, AASHTO T216

Further Information

Supplied without dial gauge and weights.

Specification

Load Capacity	48 tons/sq. ft. (5,148 kPa) on 2.5" (63 mm) diam. samples.
Loading Beam	Cast aluminum; counterbalanced; 9:1, 10:1 and 11:1 ratios.
Frame	Cast aluminum; integral beam support jack; plated steel and platform.
Dimensions	8" w. x 28" d. x 20" h. (203 x 711 x 508 mm), excluding weight hanger.
Weight	Net 30 lbs. (13.6 kg); Shpg. 40 lbs. (18.1 kg).



Floor Mounting Stand.

Code: [25-0429](#)

Product Group: [Consolidation Apparatus, Table Top Consolidation Apparatus](#)

A versatile modular steel stand. Holes in the shelf are provided for securing up to three EL25-0402 Consolidation Frames. Dimensions 610 x 915 x 865 mm (l x w x h).

Standards

ASTM D2435, ASTM D4546, AASHTO T216