

















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

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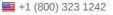
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# Contents



Clamped Boss Load Ring - 4.5 kN

### 27-1620

**Digital Pressure Gauge 1700Kpa. for Ele Triaxial Cells.** 

26-1928 6mm Elbow Connector.





#### **Digital Tritest 50 Load Frame**

Code: 25-3518/01

Product Group: Digital Tritest 50 Load Frame, CBR Load Frames, Triaxial Load Frames

- Microprocessor control
- Large on-board LED screen display
- Direct entry via a touch sensitive keyboard
- Rapid approach and return to datum of platen
- Fully variable speed, 0.00001 to 9.99999 mm/min
- Samples up to 100 mm diameter

This 50 kN capacity machine, designed primarily for triaxial testing of soil specimens up to 100 mm diameter x 200 mm long, comprises a rigid twin column construction with an integral fully variable microprocessor controlled drive unit and LCD display with a touch sensitive keyboard. The machine is normally bench mounted for ease of installation and operation.

The use of a microprocessor controlled drive system and keyboard entry provides the Digital Tritest 50 with a wide variety of features which include pause and speed reset during test, RS 232C, operator programming of speed and control functions, self test diagnostics and many other features.

A robustly constructed steel case houses the motor drive system with careful attention being given to the prevention of ingress of water or grit. All operating controls are mounted on the front panel of the machine, which is angled and recessed to prevent physical and environmental damage.

#### Standards

BS 1377-7, BS 1377-8, BS 1924-2, 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**

Rapid Approach Speed

Complete with RS 232C interface.

#### Specification

Capacity Speed Range 50kN (11,200 lbf). English mode: 0.000001 to 0.399999 in/min. Metric mode: 0.00001 to 9.99999 mm/min. 1.0 in/min. (25 mm/min.).

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Platen Travel

Platen Diameter Vertical Clearance

Horizontal Clearance Serial Interface

**Overall Dimensions** 

Weight

100mm (3.9"); limit switch protection. 133 mm (5.2") 910 mm, (36 .8") maximum; 305mm, (12") minimum. 364mm, (15 .3"). RS232C; programmable baud rate and protocol. 500 x 500 x 1,470 mm, (19.7" w. x 19.7" d. x 57.8" h). Net 100kg (220 lbs); Shpg. 136kg (300 lbs).

#### Accessories



**50kN Clamped Boss Load Ring** Code: 78-0860



Adaptor kit, to perform CBR on the Tritest 50 load frame Code: 25-3518/10



Clamped Boss Load Ring - 10.0 kN Code: 78-0460



#### Clamped Boss Load Ring - 28.0 kN









## Clamped Boss Load Ring - 3.0 kN

Code: 78-0160



## Clamped Boss Load Ring - 4.5 kN

Code: 78-0260

## Alternatives



MultiPlex 50 Load Frame

Code: 25-3700/01



Versa-Loader Code: 25-3525/02





#### 50mm Triaxial Cell 1700Kpa with 5 Pressure/ Drainage Ports. Supplied with Two Valves.

Code: 25-4047 Product Group: Triaxial Cell, Triaxial Cells

- Working pressure up to 1700 kPa
- · All round visibility
- Sample sizes 38 to 100 mm diameter
- Rapid assembly and dismantling

• Accepts a range of interchangeable submersible load transducers

This range of precision made triaxial cells has been designed to meet the requirements of the modern soils laboratory. The cells have been treated to minimise corrosion. Particular attention has been paid to the quality of finish between the piston and the head. Final assembly includes the fitting of an O-ring seal and the use of special lubricant to reduce friction to a minimum and eliminate water leakage.

The piston load capacity is designed to accept high horizontal forces which may be present during the final stages of a test. Each cell has five take-off positions drilled in the base for top drainage/back pressure, pore water pressure and bottom drainage. Two no-volume change valves and an anvil for strain gauge/transducer datum are supplied for fitting to the cell.

A feature of these cells is that they all accept a single diameter piston. The internal height is such that a range of submersible load transducers can be fitted without any modification. Each cell will accept a range of base adaptors and various accessories for testing a wide range of specimens

#### Standards

BS 1377, ASTM D2850, ASTM D4767, AASHTO T296, AASHTO T297

#### Specification

50 mm
50 x 100 mm
1700 kPa
45 kN
380 mm
155 mm
4







#### Accessories

#### 38mm/1.5 Inch Base Adaptor for 50mm Cells.

Co

Code: 25-4166



**50mm Base Adapter for 50mm Cells.** Code: 25-4168



Pressure Interface Chamber Code: 25-0695

## Alternatives



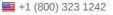
100mm Triaxial Cell 1700Kpa with 5 Pressure/ Drainage Ports. Supplied with Two Valves.

Code: 25-4157



70mm Triaxial Cell 1700Kpa with 5 Pressure/ Drainage Ports. Supplied with Two Valves.

Code: 25-4117







# 38mm/1.5 Inch Base Adaptor for 50mm Cells.

Code: 25-4166 Product Group: Specimen Base Adaptors, Base Pedestals

38mm/1.5 Inch Base Adaptor with Twin Pore Pressure Ports for 50mm Cells.

Standards BS 1377, ASTM D2850, ASTM D4767, AASHTO T296, AASHTO T297

#### Accessories





Code: 25-4186

Code: 25-4168



50mm Base Adapter for 50mm Cells.



50mm Base Adaptors for 70mm Cells.

Code: 25-4174







## 70mm Base Adaptor for 70mm Cells.

Code: 25-4176

### **Alternatives**

100 mm Base Adaptor for 100 mm Triaxial Cell.



Code: 25-4186



**50mm Base Adapter for 50mm Cells.** Code: 25-4168



**50mm Base Adaptors for 70mm Cells.** 

Code: 25-4174



**70mm Base Adaptor for 70mm Cells.** Code: 25-4176







# Dial Gauge 25mm Travel X 0.01mm Divisions

Code: 25-4210 Product Group: Digital Tritest 50 Load Frame, Axial Displacement

25 mm travel x 0.01 mm

### Standards BS 1377

#### Accessories



Axial Strain Transducer Assembly 50mm Travel Fitted with 5 Pin Din Plug.

Code: 27-1617

## Spares/Consumables



Dial Indicator - 1.0" Range

Code: 88-4100

#### **Alternatives**









## Digital Tritest 50 Load Frame

Code: 25-3518/02



Electronic Digital Indicator, 1.0"/25.4 mm range

Code: 88-4220



Versa-Loader Code: 25-3525/02





#### Membrane Placing Tool 35mm/38mm.

Code: 25-4290 Product Group: Membrane Placing Tools, O-Ring Placing Tools

Membrane Placing Tool For 35Mm/1.4 Inch And 38Mm/1.5 Inch Samples.

Standards

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

#### Accessories

Membrane Placing Tool 100mm/4 Inch Diameter.



Code: 25-7610



Membrane Placing Tool 70mm/2.8 Inch Diameter.

Code: 25-6470

## Alternatives



Membrane Placing Tool 100mm/4 Inch Diameter. Code: 25-7610



Membrane Placing Tool 70mm/2.8 Inch Diameter. Code: 25-6470



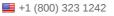


### Pressure Pad 38mm/1.5 Inch Diameter.

Code: 25-5050 Product Group: Pressure Pads

38 mm / 1.5 Inch diameter pressure pad. The pad shall have two empty ports and will come complete with two blanking plugs, plastic tubing and connector. Suitable For both drained and undrained tests.

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







## Rubber Membrane 38mm/1.5 Inch Diameter. Pack of 10.

Code: 25-5061 Product Group: Rubber Membranes

Rubber Membrance For 38Mm/1.5 Inch Samples (Pack Of 10).

#### Standards

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







## Membrane Sealing Ring 38mm/1.5 Inch Diameter. Pack of 10.

Code: 25-5081 Product Group: Membrane Sealing Rings

Membrane Sealing Ring 38Mm Diameter (Pack Of 10).

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





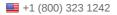


# Suction Membrane Device 38mm/1.5 Inch Diameter.

Code: 25-5100

Product Group: Suction Membrane Devices, Suction Membrane Device

Suction Membrane Device For 38Mm/1.5 Inch Samples.







# Two-Way Split Former 38mm/1.5 Inch Diameter.

Code: 25-5120 Product Group: Two-way Split Formers, Two-Way Split Formers

Two-Way Split Former For 38Mm/1.5 Inch Samples.



#### Pressure Test 1700 Oil/Water Constant Pressure System 0 to 1700kPa 220-240V 50/60Hz 1Ph.

Code: 26-1800/01

Product Group: Air/Water Pressure Systems - up to 1000 kPa, Oil/Water Constant Pressure System

- 0 to 1700 kPa (250 lbf/in2) fully variable
- Continuous constant pressure control
- One litre capacity

The ELE oil/water constant pressure system, PressureTest 1700, is extremely versatile and can be used in conjunction with a wide range of test equipment. The unit provides continuous variable pressure up to 1700 kPa. Pressure is increased or decreased simply by turning a control wheel.

The apparatus is supplied without a gauge for those customers who have suitable pressure monitoring equipment. A digital pressure gauge is offered as an accessory. The machine features a clear hydraulic/water interface reservoir and up to one litre capacity of water is available under pressure.

#### **Further Information**

Dimensions (without gauge) 240 x 400 x 500 mm (l x w x h).

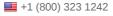
#### Accessories



Digital Pressure Gauge 1700 kPa for Use with 26-1800 Series Oil/Water Constant Pressure System.

Code: 26-1820

## Spares/Consumables











#### Oil 5 Litres T46

Code: 26-1805





### Digital Pressure Gauge 1700 kPa for Use with 26-1800 Series Oil/Water Constant Pressure System.

Code: 26-1820 Product Group: N/A

•Capacity: 1700 kPa

- •Units: pressure can be indicated in bar mbar / hPa psi kPa mPa
- •Accuracy: better than 1% of indicated pressure
- •Measurement interval: twice per second
- •Pressure connection: 1/4"" bsp
- •Power supply: 3 volt battery cr 2430 type
- Battery life: 1400 hours continuous operation
- •Capacity: 1700 kPa

•Units: pressure can be indicated in bar mbar / hPa psi kPa mPa.





## Nylon Tubing 6mm Od 3500Kpa.

Code: 26-1926 Product Group: Permeability of Rock, Volume Change Measurement

6 mm outside diameter x 4 mm inside diameter. For use up to a pressure of 3500 kPa. Priced per metre.



## Clamped Boss Load Ring - 4.5 kN

Code: 78-0260 Product Group: Clamped Boss Load Rings, Digital Tritest 50 Load Frame, Load Measurement, Load Measurement, Direct/Residual Shear Apparatus, Proving Rings, Load Measurement

### Specification

Capacity: kN, kgf, lbf Typical Design sensitivity: N/div, kgf/div, lbf/div	4.5, 450, 1000 3.0, 0.30, 0.66
Overall height mm	248
Approx weight kg	3.5
Capacity - lbf	1,000
Capacity - kN	4.5
Capacity - kgf	450
Typical Design Sensitivity - lbf/div	0.66
Typical Design Sensitivity - kN/div	3
Typical Design Sensitivity - Kgf/div	0.3
Overall Height	9.76" (248 mm)
Approx Weight	7.7 lbs.(3.5 kg)

#### Accessories



#### **50kN Clamped Boss Load Ring**

Code: 78-0860



#### Clamped Boss Load Ring - 10.0 kN











## Clamped Boss Load Ring - 2.0 kN

Code: 78-0060



#### Clamped Boss Load Ring - 28.0 kN

Code: 78-0760



Clamped Boss Load Ring - 3.0 kN Code: 78-0160



Digital Proving Ring, 1,000 lbs (4.5 kN) Code: 78-0264

## Spares/Consumables



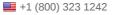
**Spare Dial Indicator for Load Rings** 

Code: 78-5461

## Alternatives



50kN Clamped Boss Load Ring









## Clamped Boss Load Ring - 10.0 kN

Code: 78-0460



## Clamped Boss Load Ring - 2.0 kN

Code: 78-0060



## Clamped Boss Load Ring - 28.0 kN Code: 78-0760



## Clamped Boss Load Ring - 3.0 kN Code: 78-0160



## Digital Proving Ring, 1,000 lbs (4.5 kN)





# Digital Pressure Gauge 1700Kpa. for Ele Triaxial Cells.

Code: 27-1620

Product Group: Oil/Water Constant Pressure System, Pressure Measurement, Digital Pressure Gauge

For ELE Triaxial Cells. The Digital Pressure Gauge offers highly accurate pressure measurement and digital readout for ELE triaxial cells.

#### Standards

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

#### Specification

Capacity Display Display Units Accuracy

Read Rate Power Supply Battery Life

Dimensions

Weight

250 psi (1,700 kPa). LCD. PSI, kPa, MPa. Better than 1% of indicated pressure. Two samples per second. 3 volt battery, CR 2340 type. 1400 hours continuous operation. 2.30" w. x 1.25 " d. x 3.75" h. (59 x 32 x 95 mm.) Net 1/4 lb. (125 g).









### 6mm Elbow Connector.

Code: 26-1928 Product Group: Volume Change Measurement

