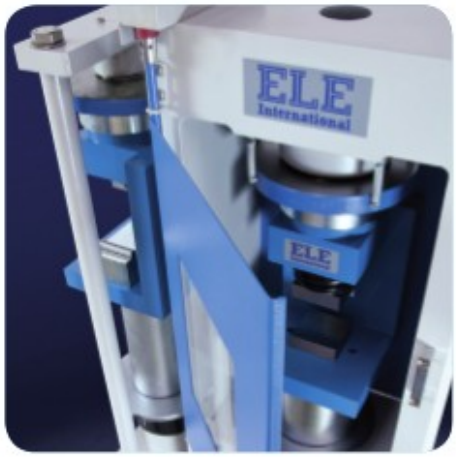
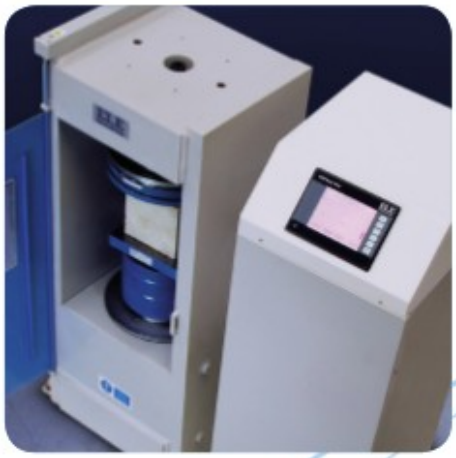


ELE International



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

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26-1930
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Combination Permeameter, 2.5" (63.4 mm)

Code: SP25-0623

Product Group: Combination Permeameter, Combination Permeameter Constant or Falling Head

•Plated steel chamber head assembly
•Corrosion-resistant cast aluminum base assembly
•Includes accessories for conducting both constant and falling head permeability studies

This combination permeameter has a transparent plastic chamber for soil specimens of either fine-grained or coarse-grained soils. Generally, soils containing 10 percent or more particles passing a 75 µm sieve are tested using the falling head assembly. More granular soils, containing 90 percent or more particles retained on the 75 µm sieve, are tested using the constant head assembly.

The cell is sealed at the top so that a vacuum may be used to saturate the specimen. Porous stones located at the top and bottom of the cell prevent sample flaking or washout. For constant head tests, a plastic funnel reservoir is mounted on an upright attached to the cell, providing a maximum head of 550 mm. Falling head tests are performed using the graduated pipette falling head reservoir, which gives a maximum head of 1000 mm and is graduated 0.2 ml.

Specification

Specimen size	63.5 x 140 mm (dia x l max).
Chamber	Transparent plastic, single section
Base	Cast aluminium
Top seal	Plated steel with gaskets
Porous Stones	62.7 x 12.7 mm (diameter x thickness)
Constant head	Plastic, funnel reservoir, 550 mm maximum head
Falling head	Graduated pipette, 100 ml x 0.2 ml, 1000 mm maximum head
Weight kg	5
Specimen Size	2-1/2” diam. x 5-1/2” l. max. (63.5 x 140 mm).
Capacity	Clear lucite; 1/4” (6.3 mm) wall;

	single section.
Base	Cast aluminum.
Top Seal	Plated steel with gaskets.
Porous Stones	Mounts at top and bottom; 2.47” diam. x 1/2” thick (62.7 x 12 .7 mm); 105-120 permeability rating; 300 micron, average pore size.
Constant Head	Plastic; funnel reservoir; 55 cm maximum head.
Falling Head	Graduated pipette; 100 mm x 0.2 mm; 100 cm. maximum head.
Weight	Net 11 lbs. (5 kg).

Spares/Consumables

Porous Stone 2.47" x .50"

Code: T-308

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

ASTM D2435, ASTM D4546, AASHTO T216, ASTM D3877, BS 1377-5

Further Information

Supplied without dial gauge and weights.

Specification

Load Capacity	48 tons/sq. ft. (5,14 8 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	203 x 711 x 508 mm, (8” w. x 28” d. x 20” h) . excluding weight hanger.
Weight	(Net 30 lbs). 13 .6 kg; Shpg. 40 lbs. (18.1 kg).

Accessories

16 Ton Weight Set

Code: 25-0544

2.416" Fixed Ring Consolidometer

Code: 25-0480

2.5" Floating Ring Consolidometer

Code: 25-0530

Consolidation Cell Complete 2.5 Inch Diameter Sample. Inc. Porous Discs and Cutting Ring.

Code: 25-0479

Consolidation Cell Complete 50mm Diameter Sample.

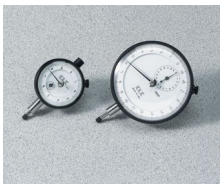
Code: 25-0455

Consolidation Cell/ Oedometer Complete 75mm Diameter Sample

Code: 25-0503

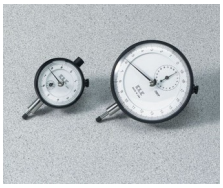
Floor Mounting Stand.

Code: 25-0429



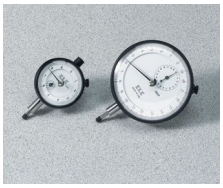
Mechanical Dial Indicator - 0.4" Range

Code: 88-4070



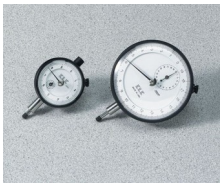
Mechanical Dial Indicator - 1.0" Range Counter Clockwise Movement

Code: 88-4120



Mechanical Dial Indicator - 10 mm Range

Code: 88-4080



Mechanical Dial Indicator - 25 mm Range Counter Clockwise Movement

Code: 88-4130

Set of Weights 100Kg Total Weight.

Code: 25-0408

Weight Set A

Code: 25-0535

Weight Set B

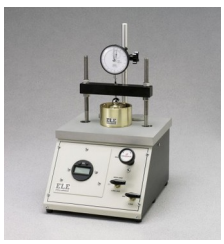
Code: 25-0537

Spares/Consumables

Electronic Digital Indicator, 0.600"/15 mm range

Code: 88-4210

Alternatives



Pneumatic Consolidation Apparatus

Code: 25-0560

Set of Weights 100Kg Total Weight.

Code: 25-0408
Product Group: Consolidation Apparatus

9 x 10 kg, 1 x 5 kg, 2 x 2 kg, 1 x 1 kg.

Standards

ASTM D2435, ASTM D4546, AASHTO T216, ASTM D3877, BS 1377-5

Dial Gauge 10mm Travel X 0.002mm Divisions.

Code: 25-0440

Product Group: Direct/Residual Shear Apparatus, Measurement of Horizontal and Vertical Movement, Vertical settlement measurement

Spares/Consumables

Electronic Digital Indicator, 0.600"/15 mm range

Code: 88-4210

Vertical Dial Indicator, English

Code: 25-0445

Consolidation Cell Complete 2.5 Inch Diameter Sample. Inc. Porous Discs and Cutting Ring.

Code: 25-0479

Product Group: Table Top Consolidation Apparatus, ASTM/AASHTO consolidation cells and accessories, Pneumatic Consolidation Apparatus, Fixed Ring Consolidation

Standards

ASTM D2435, ASTM D4546, AASHTO T216, ASTM D3877

Specification

Application	ASTM
Specimen Dia	2.5 inch
Specimen area	4.909 inch²
Beam ratio	10:1
Load kg	1.55
Stress	1000 lbf/ft²
Typical max stress	103 200 lbf/ft²
Stress for 1 kg m²	645 lbf/ft²

Accessories

2.5" Floating Ring Consolidometer

Code: 25-0530

Calibration Disc 2.5 Inch Cell

Code: 25-0485

Consolidation Cell Complete 50mm Diameter Sample.

Code: 25-0455

Consolidation Cell/ Oedometer Complete 75mm Diameter Sample

Code: 25-0503

Spares/Consumables

2.5 Inch Dia Upper and Lower Porous Stones for Use on EL25-0479 Series Cell.

Code: 25-0479/13

Cutting Ring for 25-0479

Code: 25-0482

Alternatives

2.5" Floating Ring Consolidometer

Code: 25-0530

Calibration Disc 2.5 Inch Cell

Code: 25-0485

Consolidation Cell Complete 50mm Diameter Sample.

Code: 25-0455

Consolidation Cell/ Oedometer Complete 75mm Diameter Sample

Code: 25-0503

Calibration Disc 2.5 Inch Cell

Code: 25-0485
Product Group: ASTM/AASHTO consolidation cells and accessories, Fixed Ring Consolidation

Standards

ASTM D2435, ASTM D4546, AASHTO T216, ASTM D3877

Accessories

Consolidation Cell Complete 2.5 Inch Diameter Sample. Inc. Porous Discs and Cutting Ring.

Code: 25-0479

Alternatives

Consolidation Cell Complete 2.5 Inch Diameter Sample. Inc. Porous Discs and Cutting Ring.

Code: 25-0479

Cutting Ring for 25-0479

Code: 25-0482

Product Group: ASTM/AASHTO consolidation cells and accessories, Fixed Ring Consolidation

Standards

ASTM D2435, ASTM D4546, AASHTO T216, ASTM D3877

Accessories

Consolidation Cell Complete 2.5 Inch Diameter Sample. Inc. Porous Discs and Cutting Ring.

Code: 25-0479

2.5 Inch Dia Upper and Lower Porous Stones for Use on EL25-0479 Series Cell.

Code: 25-0479/13

Product Group: ASTM/AASHTO consolidation cells and accessories, Fixed Ring Consolidation

Standards

ASTM D2435, ASTM D4546, AASHTO T216, ASTM D3877

Accessories

Consolidation Cell Complete 2.5 Inch Diameter Sample. Inc. Porous Discs and Cutting Ring.

Code: 25-0479

De-Aired Water Apparatus 15 Litre Capacity

Code: 25-1833/01
Product Group: De-Aired Water

This compact self-contained unit will de-air water quickly and efficiently down to levels of dissolved oxygen acceptable for geotechnical test methods. Air is removed from the water by a vacuum system, which continuously circulates the water in the tank. The unit is supplied with a clear water container, which will hold a maximum of 15 litres of water. Input and output lines are formed using standard 6 mm tube connectors.

Standards

BS 1377-1

Specification

Dimensions l x w x h (mm)	380 x 356 x 470

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

Complete with RS 232C interface.

Specification

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

Platen Travel	100mm (3.9”); limit switch protection.
Platen Diameter	133 mm (5.2")
Vertical Clearance	910 mm, (36 .8”) maximum; 305mm, (12”) minimum.
Horizontal Clearance	364mm, (15 .3”).
Serial Interface	RS232C; programmable baud rate and protocol.
Overall Dimensions	500 x 500 x 1,470 mm, (19.7” w. x 19.7” d. x 57.8” h).
Weight	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

Code: 78-0760

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

Cell size	50 mm
Max specimen size	50 x 100 mm
Working pressure	1700 kPa
Max piston load	45 kN
Vertical clearance required	380 mm
Horizontal clearance required	155 mm
Weight kg	4

Accessories

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

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

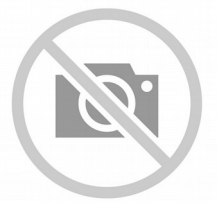
Product Group: Specimen Base Adaptors, Base Pedestals

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



100 mm Base Adaptor for 100 mm Triaxial Cell.

Code: 25-4186

50mm Base Adapter for 50mm Cells.

Code: 25-4168

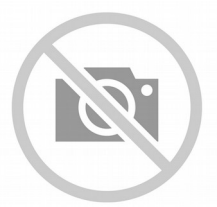
50mm Base Adaptors for 70mm Cells.

Code: 25-4174

70mm Base Adaptor for 70mm Cells.

Code: 25-4176

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

Piston Restraint Clamp for Ele Triaxial Cells

Code: 25-4200

Product Group: Aggressive Materials, General Cell Accessories

For ELE Triaxial Cells Manufactured From July 1996.

Standards

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

Further Information

To lock the loading piston into position

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

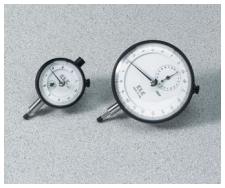
BS 1377

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

Valve No Volume Change 1/4 Inch BSp Fitted with 6 mm Connector and Integral Sealing Ring.

Code: 25-4520

Product Group: Accessories for CU/CU effective stress, General Cell Accessories

Standards

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

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 1.5"

Code: 25-5081
Product Group: Sealing Rings

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

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.

Porous Disc 38mm/1.5 inch Diameter. Pack of 2.

Code: 25-5181

Product Group: Accessories for CU/CU effective stress, Porous Stones

Porous disc for 38 mm/1.5 inch samples (Pack of 2).

Filter Paper Drain 38mm/1.5 inch Diameter. Pack of 50.

Code: 25-5200

Product Group: Accessories for CU/CU effective stress, Filter Paper Drains

Filter paper drain 38 mm diameter (Pack of 50).

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.

Universal Pump and Pressure Indicating Panel 1700Kpa.

Code: 26-1880

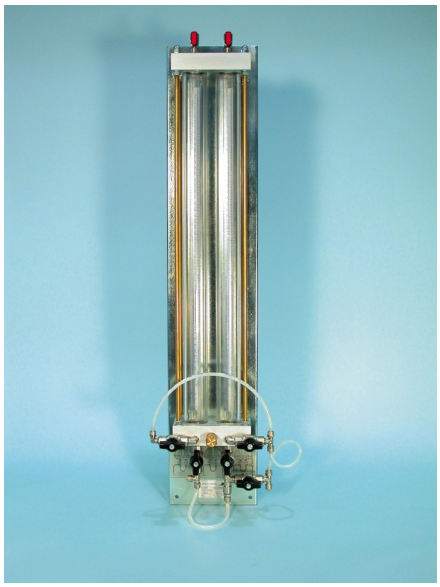
Product Group: Modular Pressure Panel System

This is the main pressure display in the system for monitoring various pressures and also provides fine control of the pressure within the system using the rotary hand pump. The unit is fitted with a dual calibrated 250 mm diamter pressure gauge, four inlet/outlet no-volume change valves, screw controlled rotary hand pump, water reservoir and isolating valves. The unit is housed in a hinged case for wall or bench mounting. By using an isolating valve the panel may be used to monitor cell or back pressure. 1700 kPa and 250 lbf/in2.

Spares/Consumables

Pressure Gauge 1700Kpa (250Psi) 250mm Diameter.

Code: 26-1865/10



Twin Burette Volume Change Unit.

Code: 26-1892
Product Group: Volume Change Measurement

Fitted with reversing valve and by-pass valve. The unit is fitted with burettes graduated 0 to 100 ml x 0.2 ml and is mounted on a solid panel for wall or bench mounting supplied with 100 ml capacity x 0.2 ml burettes.

Accessories

Red Dye Kerosene Soluble 10G Phial for Colouring Kerosene.

Code: 26-1900

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.

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	250 psi (1,700 kPa).
Display	LCD.
Display Units	PSI, kPa, MPa.
Accuracy	Better than 1% of indicated pressure.
Read Rate	Two samples per second.
Power Supply	3 volt battery, CR 2340 type.
Battery Life	1400 hours continuous operation.
Dimensions	2.30” w. x 1.25 ” d. x 3.75” h. (59 x 32 x 95 mm.)
Weight	Net 1/4 lb. (125 g).

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	4.5, 450, 1000
Typical Design sensitivity: N/div, kgf/div, lbf/div	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

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)

Code: 78-0264

Spares/Consumables

Spare Dial Indicator for Load Rings

Code: 78-5461

Alternatives

50kN Clamped Boss Load Ring

Code: 78-0860

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)

Code: 78-0264

6mm Elbow Connector.

Code: 26-1928
Product Group: Volume Change Measurement

6mm T Connector.

Code: 26-1930
Product Group: Volume Change Measurement