



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

This wishlist was generated on 29/05/2019, and contains the following Products:

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23-1501

**100mm Dia Soil Auger Head**

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23-1504

**150mm Dia Soil Auger Head**

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**150mm Dia Gravel Auger Head.**

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23-1525

**50mm Dia Dutch Soil Auger Head.**

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**Extension Rod 27mm Diameter 1m Long. for Use with Auger Heads**

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23-1543

**Stillson Wrench Size 14.**

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23-1547

**Handle and T Piece for Use with EL23-1541.**

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23-4090

**38mm Hand Operated Hydraulic Sample Extruder with Trimming Knife 38mm Split Former & Cutting Tool.**

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23-5800

**Hand Operated Soil Lathe for 38mm Dia Specimens Up to 100mm Long.**

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**Liquid Limit Device BS with Counter. C/W Metal Grooving Tool & Test Gauge.**

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**Grooving Tool and Gauge B.S.**

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24-0430

**Glass Plate.**

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24-0453

**ASTM Metal Grooving Tool.**

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24-0545/01

**Semi-Automatic Cone Penetrometer**

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**Rod Comparator**

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**High Speed Stirrer Complete with Paddle Cup & Baffle. 220-240V 50/60Hz 1Ph.**

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**Sodium Hexametaphosphate 500G.**

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**Straight Edge 300mm.**

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**ASTM Compaction Rammer 2.5Kg.**

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**ASTM/Modified Proctor Compaction Rammer 4.5Kg.**

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24-9182

**Penetration Piston**

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24-9188

**Bracket and Adaptor. Dual Purpose Mounting Bracket for CBR Penetration Gauges EL24-9184/EL24-9186**

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24-9228

**ASTM Cbr Mould Complete with Collar & Perforated Base**

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24-9236

**ASTM Cutting Collar.**

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24-9238

**ASTM Spacing Disc.**

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24-9240

**Filter Screen 150mm Dia with 0.15mm Mesh.**

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24-9243

**4.5Kg Annular Surcharge Weight ASTM.**

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24-9244

**5Lb (2.27Kg) Split Surcharge Weight.**

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24-9250

**Filter Paper Equivalent to Whatman No 5 150mm Dia Box of 100.**

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24-9260

**Swell Plate**

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24-9262

**Swell Stand**

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25-1833/01

**De-Aired Water Apparatus 15 Litre Capacity**

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25-3518/01

**Digital Tritest 50 Load Frame**

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25-4047

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

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25-4168

**50mm Base Adapter for 50mm Cells.**

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25-4200

**Piston Restraint Clamp for Ele Triaxial Cells**

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25-4520

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

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25-5430

**Pressure Pad 50mm Diameter.**

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25-5441

**Rubber Membrane 50mm Diameter Pack of 10.**

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25-5461

**Membrane Sealing Ring 50mm Diameter Pack of 10.**

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25-5470

**Membrane Placing Tool 50mm Diameter.**

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25-5480

**Suction Membrane Device 50mm Diameter.**

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25-5500

**Two-Way Split Former 50mm Diameter.**

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25-5561

**Porous Disc 50mm Pack of 2**

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25-5580

**Filter Paper Drain 50mm Diameter. Pack of 50**

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26-1800/01

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

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26-1880

**Universal Pump and Pressure Indicating Panel 1700Kpa.**

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26-1926

**Nylon Tubing 6 mm OD x 4 mm ID 3500 Kpa**

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26-1928

**6mm Elbow Connector.**

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26-1930

**6mm T Connector.**

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26-2114/01

**Digital Direct/Residual Shear Apparatus Complete with Lever Loading  
Assembly. 220-240V 50/60Hz 1Ph.**

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26-2132

**Set of Weights 50 kg Slotted.**

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26-2181

**Shear Box Assembly 60mm Sq.**

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26-2181/10

**Porous Plate 60mm Sq.**

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26-2185

**Specimen Cutter 60mm Sq.**

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26-2189

**Specimen Extrusion Tool 60 mm sq.**

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27-1293

**Distance Piece Stainless Steel for Use with Submersible Load Cells and Axial Strain Transducers.**

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27-1300/01

**DSU Electronic Readout and Control System 220 - 240 V AC 50/60 Hz**

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27-1500/01

**GDU 8 Channel Data Acquisition Unit 220-240 V 50/60 Hz, 1 Ph.**

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27-1559

**50kN S-type Load Cell**

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27-1561

**S-Type Load Cell 5 kN.for Use with Direct/ Residual Shear Machine. Fitted with 5 Pin Din Plug.**

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27-1573

**Submersible Load Transducer Assembly 5kN Capacity In Compression.**

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27-1617

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

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27-1633

**Pressure Transducer Assembly 1700Kpa Fitted with 5 Pin DIN Plug.**

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27-1641

**Volume Change Transducer Assembly 80ml Capacity Maximum Working Pressure 1700KPa**

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27-1649

**Consolidation Transducer Assembly 15mm Travel Fitted with 5 Pin Din Plug.**

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27-1689

**Vertical Displacement Transducer Assembly 15mm Travel with 5 Pin Din Plug Bracket for Shear Box**

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27-1697



## Horizontal Displacement Transducer Assembly 15mm Travel 5 Pin Din Plug Mounting Pillar

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27-1705

**CBR Penetration Transducer 50mm Travel Fitted with 5 Pin Din Plug.**

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27-1753

**DS7.2 Undrained Triaxial Shear Strength Program for Windows 7, 32/64 bit**

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27-1763

**DS7.2 CU/CD Triaxial Shear Strength Program for Windows 7, 32/64 bit**

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27-1793

**DS7.2 Direct and Residual Shear Strength Program for Windows 7, 32/64 bit**

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27-1798

**DS7.2 California Bearing Ratio (CBR) Penetration Program for Windows 7, 32/64 bit**

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29-3800

**Plate Bearing Apparatus Complete. 500kN Capacity**

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7099A0050

**Electronic Balance, with hook - 16 kg x 0.1 g**

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79-5020

**8in Dia ASTM Sieve 4.75mm Stainless Steel Mesh.**

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79-5070

**8in Dia ASTM Sieve 2.0mm Stainless Steel Mesh.**

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79-5140

**8in Dia ASTM Sieve 600 Mic Stainless Steel Mesh.**

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79-5160

**8in Dia ASTM Sieve 425 Mic Stainless Steel Mesh.**

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79-5190

**8in Dia ASTM Sieve 250 Mic Stainless Steel Mesh.**

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79-5220

**8in Dia ASTM Sieve 150 Mic Stainless Steel Mesh.**

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79-5260

# Contents

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## 8in Dia ASTM Sieve 75 Mic Stainless Steel Mesh.

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79-5400

## 8 Inch Dia Lid.

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80-0200/01

## ELE Sieve Shaker

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81-0710

## Trimming Knife

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## 100mm Dia Soil Auger Head

Code: [23-1501](#)

Product Group: [Soil and Gravel Auger Heads](#)

Constructed of heavy-duty steel plates; partly interlocked at the cutting end and suitable for cohesive soils.



## 150mm Dia Soil Auger Head

Code: [23-1504](#)

Product Group: [Soil and Gravel Auger Heads](#)

Constructed of heavy-duty steel plates; partly interlocked at the cutting end and suitable for cohesive soils.



## 150mm Dia Gravel Auger Head.

Code: [23-1517](#)

Product Group: [Soil and Gravel Auger Heads](#)

Comprises one piece steel casting with a spiral point and two plates designed to close when lifting samples from the borehole; suitable for gravel and sand.



## 50mm Dia Dutch Soil Auger Head.

Code: [23-1525](#)

Product Group: [Soil and Gravel Auger Heads](#)

Constructed of heavy-duty steel plates; partly interlocked at the cutting end and suitable for fine, silty sand.



## Extension Rod 27mm Diameter 1m Long. for Use with Auger Heads

Code: [23-1541](#)

Product Group: [Extension Rods, Handles and Tools](#)

With tube connector, constructed of steel tubing  
approximately 1 metre long.



## Stillson Wrench Size 14.

Code: [23-1543](#)

Product Group: [Extension Rods, Handles and Tools](#)

Size 14, for use with 23-1541. Two required.



## Handle and T Piece for Use with EL23-1541.

Code: [23-1547](#)

Product Group: [Extension Rods, Handles and Tools](#)





## 38mm Hand Operated Hydraulic Sample Extruder with Trimming Knife 38mm Split Former & Cutting Tool.

Code: [23-4090](#)

Product Group: [Soil Extruders](#)

This Sample Extruder comprises a vertically mounted lever action hydraulic jack, with the body extended to form a chamber which accommodates a 38 mm diameter sample tube. Supplied complete with trimming knife, 38 mm split former and wire saw.

## Standards

BS 1377-1



## Hand Operated Soil Lathe for 38mm Dia Specimens Up to 100mm Long.

Code: 23-5800

Product Group: Soil Lathes, Soil Trimmers (Lathes)

For producing 38 mm diameter specimens. The lathe platen is adjustable in height and will accept specimens up to 100 mm in length.

## Standards

BS 1377-1

## Further Information

- Lightweight frame construction for both laboratory and field use.
- Sturdy plated steel uprights serve as guides for wire saw during final trimming procedure.
- Adjustable upper platen trimming for various sample heights.

Wire Saw and other trimming accessories not included; order separately.



## Liquid Limit Device BS with Counter. C/W Metal Grooving Tool & Test Gauge.

Code: [24-0410](#)

Product Group: [Casagrande Method](#)

With revolution counter. Complete with metal grooving tool and test gauge.

## Standards

BS 1377-2



## Grooving Tool and Gauge B.S.

Code: [24-0425](#)

Product Group: [Casagrande Method](#)

Constructed to British Standards.

## Standards

BS 1377-2



## Glass Plate.

Code: [24-0430](#)

Product Group: [Casagrande Method, Determination of Plastic Limit](#)

500 mm square x 10 mm thick.

## Standards

BS 1377-2



## ASTM Metal Grooving Tool.

Code: [24-0453](#)

Product Group: [Casagrande Method](#)

## Standards

ASTM D4318



## Semi-Automatic Cone Penetrometer

Code: 24-0545/01

Product Group: Semi-Automatic Cone Penetrometer,  
Semi-Automatic Cone Penetrometer

Bench mounted apparatus to determine the liquid limit of soils to BS1377. This method is applicable to a wide range of soils. The apparatus is fitted with a 150mm diameter dial indicator for direct reading of penetration. Supplied complete with 30 deg, 30mm long test cone. Manufactured from stainless steel and includes adjustable levelling feet.

Incorporates digital automatic controller, which releases the plunger head and ensures free falling of the penetration device during the test. The time set is displayed by a bright easy to read display.

## Standards

BS 1377, BS 1924-2, EN 1997-2

## Specification

|                |   |
|----------------|---|
| Dial Indicator | 150 mm diameter graduated in 400 x 0.1 mm divisions. Indicator incorporates a friction/gear system. |
| Height         | Adjustable using rapid integral clamping mechanism.   |
| Cone Release   | Semi-Automatic  |
| Cone           | 1 x 30°, 35 mm test cone included.  |
| Base           | Cast aluminum with adjustable leveling feet.  |
| Weight         | Net 19 lbs. (8.64 kg).  |





## Rod Comparator

Code: [24-0811](#)

Product Group: [Determination of Plastic Limit, Rod Comparator](#)

3mm diameter rod comparator to BS1377.

## Standards

BS 1924-2, EN 1997-2, ASTM D4318, BS 1377, AASHTO T90



## High Speed Stirrer Complete with Paddle Cup & Baffle. 220-240V 50/60Hz 1Ph.

Code: [24-4125/01](#)

Product Group: [Mechanical Analysis Stirrer](#)

Compact bench top stirrer used for dispersing soil samples in water. Supplied complete with mixing paddle and dispersion cup with baffle. Beaker position maintained by column retainer.

## Standards

BS 1377, ASTM D422, AASHTO T88



## Sodium Hexametaphosphate 500G.

Code: [24-4145](#)

Product Group: [Sodium Hexametaphosphate,](#)  
[Mechanical Analysis Stirrer](#)

### Standards

ASTM D422, AASHTO T88, ASTM E100



## Straight Edge 300mm.

Code: [24-9010](#)

Product Group: [BS/EN compaction test 4.5kg, Proctor compaction, Straightedge](#)

300 mm

## Standards

BS 1377-4, BS 1924-2, ASTM D698, ASTM D1557, AASHTO T99, EN 13286-2, EN 13286-4, ASTM D1883, AASHTO T193, ASTM D558, ASTM D559, ASTM D560, AASHTO T134, AASHTO T135, AASHTO T136, AASHTO T180

## Specification

|              |                                       |
|--------------|---------------------------------------|
| Construction | Flat ground tool steel; beveled edge. |
| Dimensions   | L x W x T (300mm x 40mm x 6mm).       |
| Weight       | 550g                                  |



## ASTM Compaction Rammer 2.5Kg.

Code: [24-9063](#)

Product Group: [Proctor compaction](#), [Standard Compaction Hammer](#)

50.8mm diameter x 305mm deep.

## Standards

ASTM D1557, AASHTO T180, ASTM D558, ASTM D559, ASTM D560, ASTM D698, AASHTO T99, AASHTO T134, AASHTO T135, AASHTO T136

## Specification

|              |   |
|--------------|---|
| Hammer       | 2" diam. (50.8 mm); 5-1/2 lbs. (2.49 kg).             |
| Drop         | 12 " (305 mm).  |
| Guide Sleeve | Machined steel tubing with air pressure release holes |
| Finish       | Corrosion resistant                                   |
| Weight       | 4.1 kg (9 lbs)  |



## ASTM/Modified Proctor Compaction Rammer 4.5Kg.

Code: [24-9070](#)

Product Group: [ASTM/Modified Proctor compaction,](#)  
[Modified Compaction Hammer](#)

50.8mm diameter x 457.2 mm drop.

## Standards

ASTM D1557, AASHTO T180

## Specification

|              |   |
|--------------|---|
| Hammer       | 2" diam. (50.8 mm); 10 lbs.<br>(4.5 kg).  |
| Drop         | 18" (457.2 mm).   |
| Guide Sleeve | Machined steel tubing with<br>integrally spun end cap; air<br>pressure release holes. |
| Finish       | Corrosion resistant   |
| Weight       | Net 6.3 kg (14 lbs)   |



## Cbr-Test 50 Machine 50kN Capacity BS and ASTM Supplied with Stabilising Bar.

Code: [24-9150/01](#)

Product Group: [CBR Load Frames](#)

- Single speed machine (BS/EN and ASTM)
- Rapid platen adjustment
- Complete with stabilising bar
- Compact, bench-mounting design
- Options for mechanical or electronic measurement

Designed for performing laboratory CBR tests to BS 1377, EN13286-47 and ASTM D1883, this bench mounting machine comprises a twin column frame incorporating a motorised drive system. Rapid adjustment of the platen is provided, which enables daylight to be taken up quickly and also close control of application of a seating load.

## Standards

BS 1377, BS 1924, EN 13286-47, ASTM D1883, AASHTO T193

## Specification

|                        |                     |
|------------------------|---------------------|
| Dimensions (l x w x h) | 550 x 400 x 1220 mm |
| Max vertical clearance | 800 mm              |
| Horizontal clearance   | 255 mm              |
| Platen diameter        | 133 mm              |
| Platen travel          | 105 mm              |
| Weight kg              | 80                  |





## Penetration Piston

Code: [24-9182](#)

Product Group: [Penetration Measurement](#)

1.935 mm<sup>2</sup> (3 in<sup>2</sup>) area foot of case hardened steel.  
Designed to fit all ELE load rings.



## Penetration/Swell Dial Gauge ASTM.

Code: 24-9184

Product Group: Expansion (swell) Test Equipment,  
In-situ CBR, Conversion of In-situ to Laboratory CBR,  
Penetration Measurement

1 in travel x 0.0005 in divisions. Complete with rack  
extensions and chisel edge anvil.

## Standards

BS 1377, BS 1924



## Bracket and Adaptor. Dual Purpose Mounting Bracket for CBR Penetration Gauges EL24-9184/EL24-9186

Code: [24-9188](#)

Product Group: [In-situ CBR](#), [Conversion of In-situ to Laboratory CBR](#), [Penetration Measurement](#)

Dual purpose mounting bracket for CBR penetration dial gauges. Allows gauge to be fixed to penetration piston or load ring.

## Standards

BS 1377, BS 1924



## ASTM Cbr Mould Complete with Collar & Perforated Base

Code: [24-9228](#)

Product Group: [ASTM/AASHTO CBR mould](#)

With collar and perforated baseplate.

Steel mould, corrosion resistant finish, supplied with collar and perforated base plate.

Designed to accept optional cutting collars and solid baseplates.

## Standards

ASTM D1883, AASHTO T193

## Specification

|              |   |
|--------------|---|
| Mould        | 152.4 x 177.8 mm (inside diameter x height) |
| Collar       | 50.8 mm height, fits both ends of mould     |
| Base plate   | Perforated                                  |
| Construction | All steel, plated                           |
| Weight kg    | 9   |



## ASTM Cutting Collar.

Code: 24-9236

Product Group: ASTM/AASHTO CBR mould accessories, Cutting Edge

To fit ASTM CBR mould body, manufactured with a cutting edge to enable undisturbed samples to be taken in the field.

## Standards

ASTM D1883, AASHTO T193

## Specification

|              |  |
|--------------|--|
| Dimensions   | 6" i.d. x 1-1/2" h. (152 .4 x 38 mm).                              |
| Construction | Machined seamless steel tubing; recessed for mounting on CBR Mold. |
| Finish       | Plated.  |
| Weight       | Net 1-1/2 lbs. (0.7 kg).   |



## ASTM Spacing Disc.

Code: [24-9238](#)

Product Group: [ASTM/AASHTO CBR mould accessories](#), [Spacer Discs](#)

150.8 mm diameter x 61.4 mm deep.

## Specification

Construction

Steel; machined on all sides.

Finish

Plated.

Weights

Net 18.9 lbs. (8.6 kg).



## Filter Screen 150mm Dia with 0.15mm Mesh.

Code: [24-9240](#)

Product Group: [ASTM/AASHTO CBR mould accessories](#), [Filter Screen](#)

150 mm dia, 150 µm mesh for use with ASTM mould.

## Specification

Mesh

Brass; number 100.

Size

5-15 /16" diam. (135 mm).

Weight

Net 1 oz. (28 g).





## 4.5Kg Annular Surcharge Weight ASTM.

Code: [24-9243](#)

Product Group: [ASTM/AASHTO CBR mould accessories](#)



## 5Lb (2.27Kg) Split Surcharge Weight.

Code: [24-9244](#)

Product Group: [ASTM/AASHTO CBR mould accessories](#), [Surcharge Weights](#)

### Specification

Construction

Machined steel.

Finish

Plated.



## Filter Paper Equivalent to Whatman No 5 150mm Dia Box of 100.

Code: [24-9250](#)

Product Group: [Filter Paper, ASTM/AASHTO CBR  
mould accessories](#)

Box of 100.

## Standards

ASTM D1883, AASHTO T193

## Specification

|        |                       |
|--------|-----------------------|
| Grade  | Coarse.               |
| Size   | 15 cm diam. (5.9â€³). |
| Weight | Net 8 oz. (227 g).    |



## Swell Plate

Code: [24-9260](#)

Product Group: [Expansion \(swell\) Test Equipment](#),  
[Swell Plate](#)

With adjustable stem.

## Standards

ASTM D1883, AASHTO T193

## Specification

|              |  |
|--------------|--|
| Base Plate   | 5 15/16" diam. (150.8mm);<br>perforated.       |
| Contact Head | Adjustable; locks on stem with<br>knurled nut. |
| Construction | Aluminium                                      |
| Weight       | Net 2-1/2 lbs. (1.1 kg).                       |



**Swell Stand**

Code: [24-9262](#)  
Product Group: [Expansion \(swell\) Test Equipment, Tripod Attachment](#)  
For mounting Swell Dial Gauge in position on CBR mould collar.

**Standards**

ASTM D1883, AASHTO T193

**Further Information**

Requires dial indicator; not included, order separately

**Specification**

|              |   |
|--------------|---|
| Construction | Machined, one-piece cast aluminum.              |
| Contact Head | Integral part of ssembly; holds dial indicator. |
| Construction | 2" I. (50.8 mm) included.                       |
| Weight       | Net 1 lb. (0.4 kg).                             |

## De-Aired Water Apparatus 15 Litre Capacity

Code: [25-1833/01](#)

Product Group: [De-Aired Water](#)

Complies to BS 1377-1



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.<br>Metric mode: 0.00001 to 9.99999 mm/min. |
| Rapid Approach Speed | 1.0 in/min. (25 mm/min.).   |

# Product Sheet

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|                      |  |
|----------------------|--|
| 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).            |





## 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           |



## 50mm Base Adapter for 50mm Cells.

Code: [25-4168](#)

Product Group: [Specimen Base Adaptors](#), [Base Pedestals](#)

50mm Base Adapter with Twin Pore Pressure Ports for 50mm Cells.

## Standards

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



## 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



**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 50mm Diameter.

Code: [25-5430](#)

Product Group: [Specimen Caps](#), [Pressure Pads](#)

50 mm 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

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



## Rubber Membrane 50mm Diameter Pack of 10.

Code: [25-5441](#)

Product Group: [Rubber Membranes](#)

50 mm diameter rubber membrane (Pack Of 10).

### Standards

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



## Membrane Sealing Ring 50mm Diameter Pack of 10.

Code: [25-5461](#)

Product Group: [Membrane Sealing Rings, Sealing Rings](#)

50 mm diameter membrane sealing ring (Pack Of 10).

### Standards

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



## Membrane Placing Tool 50mm Diameter.

Code: [25-5470](#)

Product Group: [Membrane Placing Tools, O-Ring Placing Tools](#)

50 mm Diameter Membrane Placing Tool.

## Standards

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





## Suction Membrane Device 50mm Diameter.

Code: [25-5480](#)

Product Group: [Suction Membrane Devices](#), [Suction Membrane Device](#)

50 mm Diameter Suction Membrane Device.



## Two-Way Split Former 50mm Diameter.

Code: [25-5500](#)

Product Group: [Two-way Split Formers](#), [Two-Way Split Formers](#)

50 mm Diameter Two-Way Split Former.



## Porous Disc 50mm Pack of 2

Code: [25-5561](#)

Product Group: [Accessories for CU/CU effective stress, Porous Stones](#)

50 mm diameter porous disc (Pack Of 2).



## Filter Paper Drain 50mm Diameter. Pack of 50

Code: [25-5580](#)

Product Group: [Accessories for CU/CU effective stress, Filter Paper Drains](#)

Filter paper drain 50 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: [Oil/Water Constant Pressure System, Air/Water Pressure Systems - up to 1700 kPa](#)

- 0 to 1700 kPa (250 lbf/in<sup>2</sup>) 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).



## 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 diameter 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/in<sup>2</sup>.



## Nylon Tubing 6 mm OD x 4 mm ID 3500 Kpa

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.



## 6mm Elbow Connector.

Code: [26-1928](#)

Product Group: [Volume Change Measurement](#)





## 6mm T Connector.

Code: [26-1930](#)

Product Group: [Volume Change Measurement](#)



## Digital Direct/Residual Shear Apparatus Complete with Lever Loading Assembly. 220-240V 50/60Hz 1Ph.

Code: 26-2114/01

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, BS 1377, EN 1997-2

## Further Information

for 220 - 240 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

# Product Sheet

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|               |   |
|---------------|---|
|               | between 0.000001"<br>(0.00001 mm) to 0.399999"<br>(9.99999<br>mm) per minute. |
| Shear Force   | 1,100 lbf. (5.0 kN) maximum.  |
| Vertical Load | 2,200 lbf. (10.0 kN) using 10:1<br>lever ratio.                               |
| Dimensions    | 44.7" l. x 12 .6" w. x 49.6" h.<br>(1,135 x 320 x 1,260 mm).                  |
| Weight        | 130 kg  |

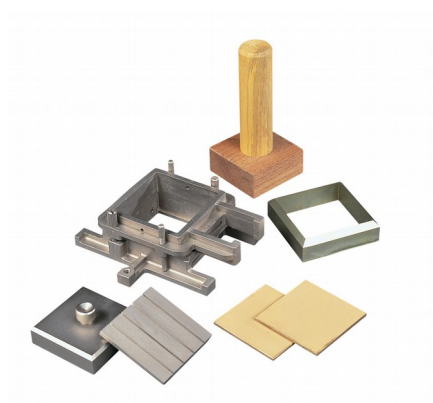


## Set of Weights 50 kg Slotted.

Code: [26-2132](#)

Product Group: [Application of Normal Stress](#)

Normal stress is applied to the specimen through the lever loading device and the appropriate slotted weights



## Shear Box Assembly 60mm Sq.

Code: [26-2181](#)

Product Group: [Shear Box Assemblies](#), [Shear Box Assemblies](#)

- Manufactured from corrosion resistant materials
- Sample size 60 x 60mm x 25mm high meeting BS 1377
- Incorporates PTFE faced box separation screws to reduce friction
- Supplied complete with upper and lower porous plates and loading pad
- Suitable for quick undrained or drained/residual tests

## Standards

BS 1377, EN 1997-2, ASTM D3080, AASHTO T236

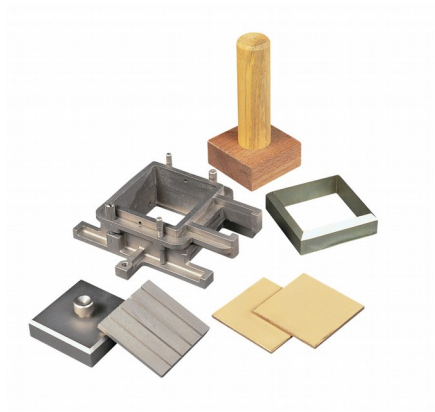
## Further Information

All shearbox assemblies are designed to fit the carriage of 26-2114 series Digital Direct/Residual Shear Apparatus. They are supplied complete with three porous plates, one retaining plate and a loading pad. The three sizes supplied comply with the relevant requirements of BS 1377 and ASTM D3080. All assemblies can be used for quick shear tests or drained/residual shear tests.

Optional accessories are available including specimen cutters and extrusion tools.

## Specification

|                    |            |
|--------------------|------------|
| Specimen area      | 60 x 60 mm |
| Specimen thickness | 25 mm      |
| Weight kg          | 2          |
| Relevant standard  | BS 1377    |



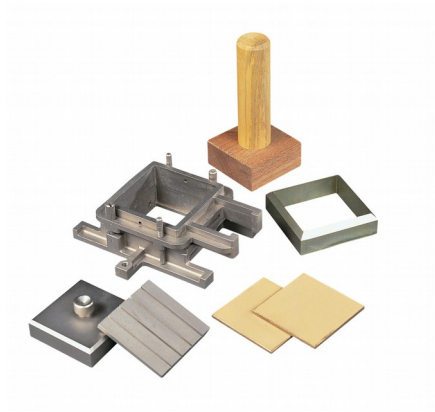
## Porous Plate 60mm Sq.

Code: [26-2181/10](#)

Product Group: [Shearbox Assemblies- Accessories and Spares](#), [Shearbox Assemblies- Accessories and Spares](#)

## Standards

ASTM D3080, AASHTO T236



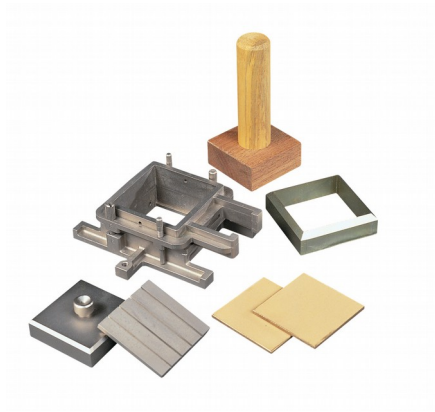
## Specimen Cutter 60mm Sq.

Code: [26-2185](#)

Product Group: [Shearbox Assemblies- Accessories and Spares](#), [Shearbox Assemblies- Accessories and Spares](#)

## Standards

ASTM D3080, AASHTO T236



## Specimen Extrusion Tool 60 mm sq.

Code: [26-2189](#)

Product Group: [Shearbox Assemblies- Accessories and Spares](#), [Shearbox Assemblies- Accessories and Spares](#)

## Standards

ASTM D3080, AASHTO T236





### **Distance Piece Stainless Steel for Use with Submersible Load Cells and Axial Strain Transducers.**

Code: [27-1293](#)

Product Group: [Load Measurement, Load Measurement, Submersible Load Transducers](#)

Required when using submersible load cells.



## DSU Electronic Readout and Control System 220 - 240 V AC 50/60 Hz

Code: 27-1300/01

Product Group: [Data Logging with the DSU](#), [Electronic Instrumentation](#), [Electronic Instrumentation](#), [Automatic Data Acquisition - CBR](#), [Data Logging with the DSU](#)

· Download the full brochure here  
[[/Page/catalogue-download/NTRmZS9UaGUgTkVXIERTVSBVU0EucGRm](#)]

- 4 channel automatic control and data-logging unit
- Automatic, dual-frame control
- Performs CBR, Marshall, Unconfined Compression, Direct and Residual Shear, One-Dimensional Consolidation and Unconsolidated Undrained tests
- LAN connection - software can be running anywhere on your server
- Never lose data from power fails - 2 gigabytes of non-volatile memory
- Extended warranty

The Data System Unit (DSU) is a versatile instrument designed to accommodate the general logging requirements of geotechnical and materials testing engineers. Its intelligent interface allows the user to work with a range of different sensors.

## Further Information

The DSU has two distinct modes of operation. The first is referred to as DS mode (DataSystem) for operation with ELE International's established DS7 geotechnical testing software.

### DS MODE

- Up to four one dimensional consolidation tests
- Up to two CBR tests
- One direct/residual shear test
- One triaxial quick un-drained test

### DU MODE

- Up to two Marshall tests
- Up to two CBR tests
- Up to two Unconfined compression tests
- Automatic frame control

### OVERVIEW

- Touch Screen data entry for standalone operation, Marshall/CBR/Quick un-drained
- Automatic single and dual frame control (with multiplex 50 frame)
- Log memory of 2 gigabytes
- Non-volatile memory
- Ethernet TCP/IP link and serial comms support
- Market leading signal stability
- Certificate and manual calibration features

Become a member of the ELE International web site, add this new product to a wishlist to receive a quote! Click here [\[Login\]](#)

This product is now available in the USA and Canada!



## GDU 8 Channel Data Acquisition Unit 220-240 V 50/60 Hz, 1 Ph.

Code: 27-1500/01

Product Group: Data Logging with the GDU, Geotechnical Data Acquisition Unit (GDU), Automatic Data Acquisition - Triaxial, Automatic Data Acquisition - Consolidation, Automatic Data Acquisition - Direct Shear, Automatic Data Acquisition - CBR

The GDU is a stand-alone, multi-tasking, multi-channel data logger, that is reliable and powerful, enabling it to co-ordinate test data from the range of ELE transducers required for various test methods.

The ELE Geotechnical Software package (DS7.1 and following), in conjunction with the GDU and a range of transducers, are the two central components required to create a modern turnkey soil testing system. Being fully modular it can be adapted to a wide range of soil testing laboratory configurations.

- For performing CBR, Consolidation, Direct/Residual Shear and Total & Effective Stress Triaxial tests
- 8 Channels expandable to 32 for performing multiple, concurrent tests for cost savings
- Independent signal conditioning on each channel to maintain data accuracy
- Field-upgradeable software, meaning no downtime for future software and functionality upgrades
- PC link via RS232 (DS7.1 only), or RS232 and Ethernet P2P/LAN (with DS7.2 and following)

- Extended warranty

## Specification

|                   |  |
|-------------------|--|
| Case              | Aluminum, free standing; houses power supply, analog to digital conversion module and an 8-channel analog input module with transducer energization. |
| Sockets           | Standard 5-pin DIN type.   |
| Input Range       | $\pm 5$ volts to $\pm 10$ mV full scale.   |
| Transducer Supply | 10vDC.   |
| Dimensions        | 12.8" w. x 14.3" d. x 6.1" h.<br>(325 x 363 x 155 mm).   |
| Weight            | Net 14.08 lbs. (6.4 kg).   |



## 50kN S-type Load Cell

Code: [27-1559](#)

Product Group: [Load Measurement](#), [Electronic Instrumentation](#), [Force measurement](#), [Electronic Instrumentation](#)

Maximum working capacity of 50 kN and excitation 10 V ac/dc with an output of 2.7 mV/V nominal.

Aluminium alloy and stainless steel construction with IP65 environmental protection.

## Standards

EN 12697-34

## Further Information

**\*\*NOT AVAILABLE FOR SALE IN THE USA\*\***



## S-Type Load Cell 5 kN.for Use with Direct/Residual Shear Machine. Fitted with 5 Pin Din Plug.

Code: [27-1561](#)

Product Group: [Load Measurement, Measurement of Load \(Shear Stress\)](#)

- Repeatability better than  $\pm 0.02\%$  of rated output
- Non-Linearity better than  $\pm 0.03\%$  of rated output
- Supplied complete with 5-pin DIN type connector for connection to GDU

Ideally suited for a wide range of applications, ELE S-type load cells provide high accuracy and minimum deformation. Various models are available, with the necessary adaptors, for use with ELE Triaxial Load Frames, Multiplex 50/Marshall Test 50/CBR Test 50 and Direct Shear machine.

## Standards

BS 1377, ASTM D3080



## Submersible Load Transducer Assembly 5kN Capacity In Compression.

Code: **27-1573**

Product Group: **Load Measurement, Load Measurement, Submersible Load Transducers**

- Eliminates effects of piston friction on readings
- Unaffected by cell confining pressures
- Easily installed in triaxial cell
- Supplied complete with calibration certificate and 5-pin DIN type connector for use with GDU

Submersible Load Transducers are used to measure accurately the axial loads applied to triaxial test specimens. Consisting of a load cell and piston assembly these units replace the standard triaxial cell loading piston. A major advantage is that these transducers measure loads directly on top of the specimen. All transducers are supplied complete with a 5-pin DIN type connector and calibration certificate.

## Specification

|                               |   |
|-------------------------------|---|
| Dimensions                    | 75 x 50 mm (dia x h) excluding piston and adaptor |
| Overload capacity             | 150%  |
| Output                        | 26 mv full range                                  |
| Excitation                    | 10 V DC (15 V DC max)                             |
| Non-linearity                 | 0.1% maximum                                      |
| Hysteresis Deflection         | 0.1% maximum 0.05 mm at full load                 |
| Side force                    | 50% full scale maximum without effect             |
| Connector                     | 5-pin DIN plug                                    |
| Compensated temperature range | 0 to 50°C   |
| Weight g                      | 850   |



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

Code: [27-1617](#)

Product Group: [Axial Displacement](#), [Axial Displacement](#), [Displacement Transducers](#)

0 to 50 mm range. For use with Triaxial Cells.

- Ideally suited for use with GDU for accurate displacement measurements
- Models available for use in consolidation, shear, CBR and triaxial test applications
- Supplied complete with mounting hardware for specified products

Displacement Transducers are used in consolidation, shear, CBR and triaxial test applications for accurate displacement measurements. They are supplied complete with a 5-pin DIN type connector for direct connection to the GDU.

## Specification

|                  |  |
|------------------|--|
| Construction     | Fully encapsulated electronics, sealed in a stainless steel case |
| Excitation       | 10V DC   |
| Connector        | 5-pin DIN type   |
| Mounting bracket | Included as standard   |
| Weight kg        | 0.45   |





## Pressure Transducer Assembly 1700Kpa Fitted with 5 Pin DIN Plug.

Code: 27-1633

Product Group: Pressure Measurement, Tri-Flex 2  
One-Cell Permeability Test System, Pressure  
Transducer

Pressure Transducers are used to measure the cell, pore and back pressures during triaxial testing. Assemblies are supplied complete with a de-airing block, valve, 5-pin DIN plug connector and calibration certificate

## Specification

|              |                   |
|--------------|-------------------|
| Construction | Stainless Steel   |
| Excitation   | 10 V DC           |
| Output       | 143 mV full range |
| Thread       | 1/4" BSP          |



## Volume Change Transducer Assembly 80ml Capacity Maximum Working Pressure 1700KPa

Code: 27-1641

Product Group: [Volume Change Measurement](#),  
[Tri-Flex 2 One-Cell Permeability Test System](#), [Volume Change Measurement](#), [Volume Change Transducer](#)

- Reversing valves to increase capacity
- Steel case for wall mounting and access to piping
- Supplied complete with calibration certificate

The Volume Change Transducer provides continuous measurements of volume change during the triaxial test. The assembly includes a valve to reverse the flow through the unit, providing increased capacity.

## Specification

|                          |                                     |
|--------------------------|-------------------------------------|
| Maximum Pressure         | 250 psi (1,700 kPa).                |
| Excitation               | 10V DC.                             |
| Output                   | 1.25 Volts full range.              |
| Capacity                 | 80 cc x 0.1 cc sensitivity.         |
| Case                     | Steel; hinged for access to piping. |
| Connector                | 5-Pin DIN type.                     |
| Overall Dimensions LXWXH | 0.44 x 0.3 x 0.27 m                 |
| Weight                   | Net 11 lbs. (5 kg).                 |



## Consolidation Transducer Assembly 15mm Travel Fitted with 5 Pin Din Plug.

Code: [27-1649](#)

Product Group: [Displacement Measurement](#),  
[Displacement Transducers](#), [Vertical settlement measurement](#)

Fitted with 5 pin DIN plug.

Supplied with Calibration Certificate.

## Specification

Construction

Fully encapsulated electronics,  
sealed in a stainless steel case

Excitation

11 V DC

Connector

5-pin DIN type

Mounting bracket

Included as standard

Weight kg

0.45



## Vertical Displacement Transducer Assembly 15mm Travel with 5 Pin Din Plug Bracket for Shear Box

Code: 27-1689

Product Group: [Displacement Measurement, Measurement of Horizontal and Vertical Movement, Displacement Transducers](#)

0 to 10 mm range. For use with Direct/Residual Shear Machines. •Ideally suited for use with GDU for accurate displacement measurements

- Models available for use in consolidation, shear, CBR and triaxial test applications
- Supplied complete with mounting hardware for specified products

Displacement Transducers are used in consolidation, shear, CBR and triaxial test applications for accurate displacement measurements. They are supplied complete with a 5-pin DIN type connector for direct connection to the GDU.

## Specification

|                  |   |
|------------------|---|
| Construction     | Fully encapsulated electronics, sealed in a stainless steel case  |
| Excitation       | 12 V DC   |
| Connector        | 5-pin DIN type  |
| Mounting bracket | Included as standard  |
| Weight kg        | 0.45  |
| Construction     | Fully encapsulated electronics, sealed in a stainless steel case. |
| Excitation       | 10vDC.  |
| Connector        | 5-Pin DIN type.   |
| Mounting Bracket | Included as standard.   |
| Weight           | Net 1 lb. (0.45 kg).  |



**Horizontal Displacement Transducer  
Assembly 15mm Travel 5 Pin Din Plug  
Mounting Pillar**

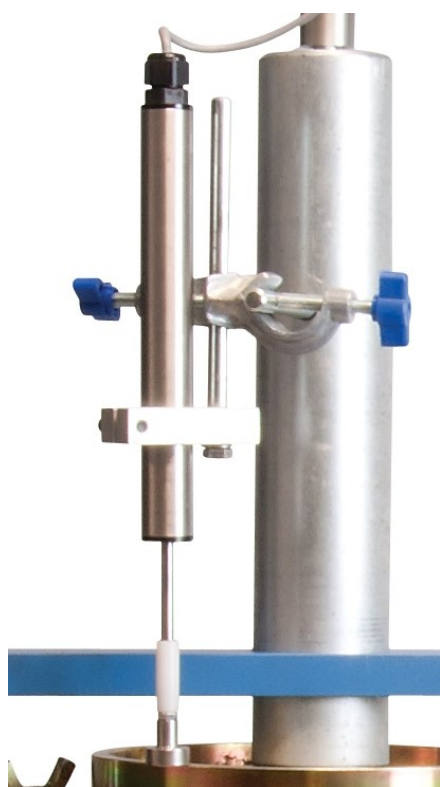
Code: 27-1697  
Product Group: Displacement Measurement,  
Measurement of Horizontal and Vertical Movement,  
Displacement Transducers

- Ideally suited for use with GDU for accurate displacement measurements
- Models available for use in consolidation, shear, CBR and triaxial test applications
- Supplied complete with mounting hardware for specified products

Displacement Transducers are used in consolidation, shear, CBR and triaxial test applications for accurate displacement measurements. They are supplied complete with a 5-pin DIN type connector for direct connection to the GDU.

**Specification**

|                  |   |
|------------------|---|
| Construction     | Fully encapsulated electronics, sealed in a stainless steel case  |
| Excitation       | 13 V DC   |
| Connector        | 5-pin DIN type  |
| Mounting bracket | Included as standard  |
| Weight kg        | 0.45  |
| Construction     | Fully encapsulated electronics, sealed in a stainless steel case. |
| Excitation       | 10vDC.  |
| Connector        | 5-Pin DIN type.   |
| Mounting Bracket | Included as standard.   |
| Weight           | Net 1 lb. (0.45 kg).  |



## CBR Penetration Transducer 50mm Travel Fitted with 5 Pin Din Plug.

Code: [27-1705](#)

Product Group: [Penetration Measurement](#),  
[Penetration Measurement](#)

- Ideally suited for use with GDU for accurate displacement measurements
- Models available for use in consolidation, shear, CBR and triaxial test applications
- Supplied complete with mounting hardware for specified products

Displacement Transducers are used in consolidation, shear, CBR and triaxial test applications for accurate displacement measurements. They are supplied complete with a 5-pin DIN type connector for direct connection to the GDU.

## Specification

|                  |  |
|------------------|--|
| Construction     | Fully encapsulated electronics, sealed in a stainless steel case |
| Excitation       | 14 V DC  |
| Connector        | 5-pin DIN type   |
| Mounting bracket | Included as standard   |
| Weight kg        | 0.45   |



## DS7.2 Undrained Triaxial Shear Strength Program for Windows 7, 32/64 bit

Code: 27-1753

Product Group: DS7.2 Quick Undrained Triaxial Software, Automatic Data Acquisition - Triaxial, DS7.2 for Windows 7, DS7.2

- Options for single or multi-stage testing on a sample
- Mohr circles produced for graphical analysis

Options are available for a single test on one sample, standard three-sample procedure with linking of the results, or for a multi-stage test on one sample. Load and strain are monitored through transducers. Various printouts and graphical plots are available including basic sample data, moisture content and density. The program tabulates shearing data and plots stress against strain. Mohr circles are produced for graphical analyses.



## DS7.2 CU/CD Triaxial Shear Strength Program for Windows 7, 32/64 bit

Code: 27-1763

Product Group: DS7.2 CU/CD Effective Stress Triaxial Software, DS7.2 for Windows 7, DS7.2

- Complete package for consolidated drained and consolidated undrained triaxial tests

This advanced package includes procedures for consolidated drained and consolidated undrained tests. Standard options are available for saturation, consolidation and shearing with automatic monitoring of the various parameters through transducers linked to the system. Load, strain, volume-change, pore-pressure, cell pressure and back pressure can all be monitored. Various prints and graphical plots are available to the engineer and include saturation data such as pore pressure build-up and B values, consolidation, volume change against time, shearing load versus strain with pore pressure monitoring.





## DS7.2 Direct and Residual Shear Strength Program for Windows 7, 32/64 bit

Code: 27-1793

Product Group: DS7.2 Direct/Residual Shear Software, DS7.2 for Windows 7, Automatic Data Acquisition - Direct Shear, DS7.2

This unique package provides test options for quick undrained or drained shear tests with the user selectable option of residual testing. Individual test results can be linked together to produce the Coulomb Envelope. Printouts and plots are available for sample description and basic test data such as moisture content, etc. Realtime plots of settlement, shear versus displacement and vertical displacement during shearing is readily available via the PC screen or printer.



### **DS7.2 California Bearing Ratio (CBR) Penetration Program for Windows 7, 32/64 bit**

Code: [27-1798](#)

Product Group: [DS7.2 CBR Penetration Software](#),  
[DS7.2 for Windows 7, Automatic Data Acquisition -](#)  
[CBR, DS7.2](#)

This program provides the classical data for the CBR test. Load and penetration are monitored simultaneously. The program tabulates the results and provides a graphical presentation report.



## Plate Bearing Apparatus Complete. 500kN Capacity

Code: 29-3800

Product Group: In-situ Testing, Plate Bearing Apparatus

Applications include the determination of bearing capacity of the soil in situ, designing for static loads on spread footings, and repetitive and non-repetitive plate loading tests of soils and flexible pavements.

Manufactured from machined steel plate with a finished thickness exceeding 25 mm. The plate has concentric markings on one face. All plates are supplied with two lifting eyes except for the 150 mm dia plate.

NOTE: to successfully perform the test, a reaction load is required.

IMPORTANT: The equipment is used in conjunction with a reaction beam. This is not supplied with the equipment.

## Standards

BS 1377, EN 1997-3, ASTM D1194, ASTM D1195, ASTM D1196

## Further Information

Comprising of:

- Hydraulic Jack 500 kN capacity
- Pressure system
- Datum bar
- 4x dial gauges 50 mm travel x 0.01 mm divisions
- 4x bearing plates: 150 mm, 305 mm, 455 mm and 760 mm diameter

## Specification

|              |   |
|--------------|---|
| Loading jack | 500 kN capacity with integral ball seating  |
| Pump         | Hand operated, single speed with integral oil reservoir                               |
| Hose         | 3 m long. Maximum pressure 70 MPa with quick release couplings                        |
| Gauge        | 100 mm dia with quick release couplings and graphs to convert readings to kN, kgf and |

# Product Sheet

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Weights

lbf  
Loading jack 24 kg.  
Pressure system 12.5 kg



## Electronic Balance, with hook - 16 kg x 0.1 g

Code: 7099A0050

Product Group: Electronic Balances

Innovative design enables a compact footprint, so it occupies minimal space but retains a high level of performance. The single-piece construction offers greater stability, producing highly repeatable results. The weighing sensor is crafted from a single block, and contains fewer parts than a traditional force motor balance. This optimised internal mechanism is fabricated using hardened materials, helping tolerate rigorous laboratory use. Efficiency in the mechanics, plus improved processing power of the electronics, leads to excellent performance.

### HARDWARE

- Colour-coded keys facilitate quick recognition of the most frequently used buttons
- Level indicator and adjustable feet ensure proper balance setup for optimum weighing results
- Removable draught shield on models with 0.001g readability helps to reduce errors caused by air currents
- Robust metal housing protects internal components in harsh environments
- Sealed keypad protects against dirt and spills
- USB and RS-232 interfaces provide speedy communication with computers and printers
- Large, grade 304 stainless steel pan allows easy cleaning
- Vivid, backlit LCD easily visible in any lighting conditions
- Lockdown device to secure balance

### SOFTWARE

- External calibration allows for verification and adjustment with weights
- Printouts include date and time for data tracking within Good Laboratory Practices (GLP) guidelines
- Selectable digital filtering helps minimise effects of vibration and disturbances
- Zero-tracking feature ensures display returns to zero reading
- Multilingual display allows use in many different countries

### DISPLAY

- Vivid, backlit LCD easily visible in any lighting conditions

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## Further Information

**\*\*Not available for sale in the USA\*\***

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## Specification

|                        |   |
|------------------------|---|
| Capacity resolution    | 16000 g x 0.1 g                                   |
| Pan size               | 400 x 300 mm                                      |
| Dimensions (w x d x h) | 400 x 480 x 100                                   |
| Weight                 | 7.6 kg  |
| Weighing units         | g, mg, ct, GN, N, oz, ozt,<br>dwt, T, custom unit |
| Repeatability          | 0.2 g   |



## 8in Dia ASTM Sieve 4.75mm Stainless Steel Mesh.

Code: 79-5020

Product Group: 8in Dia ASTM Brass Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves

## Standards

ASTM E11

## Specification

|                                 |  |
|---------------------------------|--|
| Frames                          | Full height; 2 1/4" (51 mm) depth to mesh.                               |
| Construction                    | Polished and lacquered brass with S.S. mesh.                             |
| Nameplates                      | Show standard, alternate and Tyler Screen Scale equivalent designations. |
| Weights                         | Net 1 lb. (453 g).   |
| Sieve Size or Number            | No. 4  |
| Sieve Opening Standard          | 4.75 mm  |
| Sieve Opening Alternative (in.) | 0.187  |



## 8in Dia ASTM Sieve 2.0mm Stainless Steel Mesh.

Code: 79-5070

Product Group: 8in Dia ASTM Brass Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves

## Standards

ASTM E11

## Specification

|                                 |  |
|---------------------------------|--|
| Frames                          | Full height; 2 1/4" (51 mm) depth to mesh.                               |
| Construction                    | Polished and lacquered brass with S.S. mesh.                             |
| Nameplates                      | Show standard, alternate and Tyler Screen Scale equivalent designations. |
| Weights                         | Net 1 lb. (453 g).   |
| Sieve Size or Number            | No. 10   |
| Sieve Opening Standard          | 2.00 mm  |
| Sieve Opening Alternative (in.) | 0.0787   |





## 8in Dia ASTM Sieve 600 Mic Stainless Steel Mesh.

Code: 79-5140

Product Group: 8in Dia ASTM Brass Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves

## Standards

ASTM E11

## Specification

|                                 |  |
|---------------------------------|--|
| Frames                          | Full height; 2 1/4" (51 mm) depth to mesh.                               |
| Construction                    | Polished and lacquered brass with S.S. mesh.                             |
| Nameplates                      | Show standard, alternate and Tyler Screen Scale equivalent designations. |
| Weights                         | Net 1 lb. (453 g).   |
| Sieve Size or Number            | No. 30   |
| Sieve Opening Standard          | 600 um   |
| Sieve Opening Alternative (in.) | 0.0234   |



## 8in Dia ASTM Sieve 425 Mic Stainless Steel Mesh.

Code: 79-5160

Product Group: 8in Dia ASTM Brass Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves

## Standards

ASTM E11

## Specification

|                                 |  |
|---------------------------------|--|
| Frames                          | Full height; 2 1/4" (51 mm) depth to mesh.                               |
| Construction                    | Polished and lacquered brass with S.S. mesh.                             |
| Nameplates                      | Show standard, alternate and Tyler Screen Scale equivalent designations. |
| Weights                         | Net 1 lb. (453 g).   |
| Sieve Size or Number            | No. 40   |
| Sieve Opening Standard          | 425 um   |
| Sieve Opening Alternative (in.) | 0.0165   |



## 8in Dia ASTM Sieve 250 Mic Stainless Steel Mesh.

Code: 79-5190

Product Group: 8in Dia ASTM Brass Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves

## Standards

ASTM E11

## Specification

|                                 |  |
|---------------------------------|--|
| Frames                          | Full height; 2 1/4" (51 mm) depth to mesh.                               |
| Construction                    | Polished and lacquered brass with S.S. mesh.                             |
| Nameplates                      | Show standard, alternate and Tyler Screen Scale equivalent designations. |
| Weights                         | Net 1 lb. (453 g).   |
| Sieve Size or Number            | No. 60   |
| Sieve Opening Standard          | 250 um   |
| Sieve Opening Alternative (in.) | 0.0098   |



## 8in Dia ASTM Sieve 150 Mic Stainless Steel Mesh.

Code: 79-5220

Product Group: 8in Dia ASTM Brass Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves

## Standards

ASTM E11

## Specification

|                                 |  |
|---------------------------------|--|
| Frames                          | Full height; 2 1/4" (51 mm) depth to mesh.                               |
| Construction                    | Polished and lacquered brass with S.S. mesh.                             |
| Nameplates                      | Show standard, alternate and Tyler Screen Scale equivalent designations. |
| Weights                         | Net 1 lb. (453 g).   |
| Sieve Size or Number            | No. 100  |
| Sieve Opening Standard          | 150 um   |
| Sieve Opening Alternative (in.) | 0.0059   |



## 8in Dia ASTM Sieve 75 Mic Stainless Steel Mesh.

Code: 79-5260

Product Group: 8in Dia ASTM Brass Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves, 8" Diameter ASTM Sieves

## Standards

ASTM E11

## Specification

|                                 |  |
|---------------------------------|--|
| Frames                          | Full height; 2 1/4" (51 mm) depth to mesh.                               |
| Construction                    | Polished and lacquered brass with S.S. mesh.                             |
| Nameplates                      | Show standard, alternate and Tyler Screen Scale equivalent designations. |
| Weights                         | Net 1 lb. (453 g).   |
| Sieve Size or Number            | No. 200  |
| Sieve Opening Standard          | 75 um  |
| Sieve Opening Alternative (in.) | 0.0029   |



## 8 Inch Dia Lid.

Code: 79-5400

Product Group: Sieve Lids and Receivers ASTM, 8"  
Diameter ASTM Sieves, 8" Diameter ASTM Sieves, 8"  
Diameter ASTM Sieves

## Standards

ASTM E11



## ELE Sieve Shaker

Code: 80-0200/01

Product Group: ELE Sieve Shaker

The ELE sieve shaker is powered by an electromagnetic drive that has no rotating parts to wear making it maintenance free and extremely quiet in operation.

The unit features a triple Vertical-Lateral-Rotary vibrating action that moves the sample over the sieve producing faster more efficient sieving, while the rapid vertical movements also help keep the apertures from blinding.

The shaker is ideal for laboratory or on site use. It is robust, compact and sufficiently lightweight to be portable. The separate digital microprocessor controlled console unit incorporates a keypad for setting the sieving program and is isolated from any effects of vibration from the shaker.

As standard the shaker includes, timer 0-999 minutes, adjustable vibration intensity and adjustable intermittent or continuous operation.

## Further Information

**\*\*NOT AVAILABLE FOR SALE IN THE USA\*\***

The unit accepts up to ten 200 mm or 8 inch, full height, diameter sieves and lid and receiver, or up to six 300 mm or 12 inch diameter sieves and lid and receiver. Complete as specified. Dimensions (l x w x h) 380 x 440 x 1085 mm. For 220 - 240 V AC, 50 Hz 1ph.



## Trimming Knife

Code: [81-0710](#)

Product Group: [Soil Lathes](#), [Miscellaneous Laboratory Hardware](#), [Soil Trimmers \(Lathes\)](#)

## Further Information

**\*\*NOT AVAILABLE FOR SALE IN THE USA\*\***