



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

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## 100 Litre Drying Oven

Code: [78-1225/01](#)

Product Group: [Oven Drying Method](#), [Oven Drying Method](#), [Oven Drying Method](#)

### Standards

BS 2648, BS 598, BS 1377, BS 1924

### Further Information

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

### Alternatives



## 150 Litre Drying Oven

Code: [78-1235/01](#)



## 225 Litre Drying Oven

Code: [78-1250/01](#)



## 425 Litre Drying Oven

Code: [78-0135/01](#)



## 50 Litre Drying Oven

Code: [78-1215/01](#)



## Desiccator - Non-vacuum

Code: [82-2100](#)

Product Group: [Desiccators](#)

200 mm internal diameter borosilicate glass. Supplied with perforated zinc disc.

## Further Information

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



## Desiccator Cabinet - Non-vacuum

Code: [82-2110](#)

Product Group: [Dessicators](#)

Internal dimensions 300 x 300 mm acrylic plastic.  
Supplied with 1 shelf and 2 desiccant trays.

## Further Information

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





## Silica Gel

Code: [82-7091](#)

Product Group: [Chemicals, Test and Reference Materials](#)

Coarse. No hazard. 500 g.

## Further Information

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



## Muffle Furnace

Code: 83-4170/01

Product Group: Furnaces, Loss-on-Ignition,  
Loss-on-Ignition

The unique design of oven door for safe and easy operation to ensure that the high-temperature hot gas will not escape from inside the oven.

Inert gas inlet and outlet reserved in the chamber.

Micro-computer PID controller: easy operation, accurate, reliable and safe control.

Inside lining of fire-door and box panel are both made of stainless steel materials and are corrosion-resistance and free deformation under high temperature.

Light chamber for durable service (refractory-brick chamber and ceramic-fiber chamber are optional).

With excellent door seal, thermal loss is minimised and temperature evenness is increased in the chamber.

## Standards

EN 196-2, EN 459-2, EN 13454-2, BS 1016-4, ISO 344, ISO 1171, ASTM D2361, ASTM D2795, ASTM D3714

## Specification

Work chamber dimensions (l x w x h)	300 x 200 x 120 mm
Capacity	7 litres
Maximum temperature	1200 °C
Electrical supply	220 – 240 V AC, 50 - 60 Hz, 1 ph
Power supply	5000 KW
Weight	130 kg

## Spares/Consumables



## Controller, for use in 83-4170/01

Code: [83-4170/11](#)



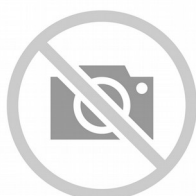
## Element heating for use in 83-4170

Code: [83-4170/14](#)



## Element/Chamber complete, heating, for use in 83-4170/01

Code: [83-4170/12](#)



## Refractory brick for 83-4170/01

Code: [83-4170/13](#)



## Thermostat, KGrade, 370 long, dia 2.5, for 83-4170/01

Code: [83-4170/10](#)

## Alternatives



## Heat of Hydration Apparatus

Code: [38-4600/01](#)

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## Heat of Hydration Apparatus

Code: [38-4600/06](#)

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## Rotatest 1500

Code: [45-3810/01](#)

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## Rotatest 3000

Code: [45-3815/01](#)



## Pyknometer Complete with Non-Corrodable Cone and Rubber Seal 1Kg Capacity

Code: [24-2885](#)

Product Group: [Particle Density: Pyknometer  
Methods, Pycnometer Top and Jar](#)

Glass jar complete with noncorrodible cone.

## Standards

BS 1377, BS 812-2, EN 1097-7, EN 1997-2, ASTM D854, AASHTO T100, ASTM C128, AASHTO T84

## Accessories



### 100ml Density Bottle with Perforated Stopper.

Code: [24-2950](#)



### 50ml Density Bottle with Perforated Stopper.

Code: [24-2900](#)



### Density Bottle 25ml.

Code: [24-2890](#)



## Pyknometer Gasket

Code: [24-2885/11](#)



## Pyknometer Jar Only

Code: [24-2885/10](#)



## Pyknometer Top

Code: [24-2885/12](#)

## Alternatives



## Sand Absorption Cone.

Code: [42-1700](#)



## Funnel

Code: [82-2660](#)

Product Group: [Funnels and Flasks](#)

Polythene, 200 mm diameter.

## Further Information

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



## Plastic Funnel - 2" top diam.

Code: [88-7200](#)

Product Group: [Plastic Funnels](#)

2" (51 mm) top diam.; 1-1/2" (38 mm) stem.

## Specification

### Materials

Conventional polyethylene;  
non-toxic, non-contaminating;  
withstands nearly all chemicals  
at room temperature for 24 hrs.

### Temperature Tolerances

176°F (80°C) maximum;  
-148°F (-100°C) brittleness.

## Alternatives



## Plastic Funnel - 4" top diam.

Code: [88-7202](#)



## Plastic Funnel - 6" top diam.

Code: [88-7204](#)





## Evaporating Dish - 100 x 40 mm

Code: [82-1970](#)

Product Group: [Evaporating Dishes](#)

Shallow form with spout, porcelain 100 x 40 mm  
nominal diameter x height.

## Further Information

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



## Evaporating Dish - 200 x 55 mm

Code: [82-2010](#)

Product Group: [Evaporating Dishes](#)

Shallow form with spout, porcelain 200 x 55 mm  
nominal diameter x height.

## Further Information

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



## Evaporating Dish - 1.285 ml Capacity

Code: [88-6718](#)

Product Group: [Evaporating Dishes](#)

215 mm diam.; 1,285 ml capacity.

## Specification

Construction

Porcelain; with lip.

## Alternatives



### Evaporating Dish - 120 ml Capacity

Code: [88-6710](#)



### Evaporating Dish - 250 ml Capacity

Code: [88-6712](#)



### Evaporating Dish - 385 ml Capacity

Code: [88-6714](#)



### Evaporating Dish - 765 ml Capacity

Code: [88-6716](#)



## Evaporating Dish - 120 ml Capacity

Code: [88-6710](#)

Product Group: [Evaporating Dishes](#)

90 mm diam.; 120 ml capacity.

## Alternatives



## Evaporating Dish - 1.285 ml Capacity

Code: [88-6718](#)



## Evaporating Dish - 250 ml Capacity

Code: [88-6712](#)



## Evaporating Dish - 385 ml Capacity

Code: [88-6714](#)



## Evaporating Dish - 765 ml Capacity

Code: [88-6716](#)



## Evaporating Dish - 385 ml Capacity

Code: [88-6714](#)

Product Group: [Evaporating Dishes](#)

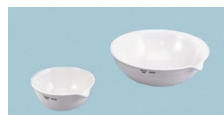
145 mm diam.; 385 ml capacity.

## Alternatives



## Evaporating Dish - 1.285 ml Capacity

Code: [88-6718](#)



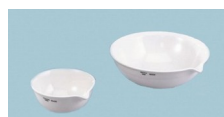
## Evaporating Dish - 120 ml Capacity

Code: [88-6710](#)



## Evaporating Dish - 250 ml Capacity

Code: [88-6712](#)



## Evaporating Dish - 765 ml Capacity

Code: [88-6716](#)



## Evaporating Dish - 765 ml Capacity

Code: [88-6716](#)

Product Group: [Evaporating Dishes](#)

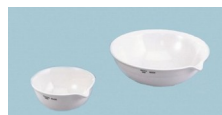
185 mm diam.; 185 ml capacity.

## Alternatives



## Evaporating Dish - 1.285 ml Capacity

Code: [88-6718](#)



## Evaporating Dish - 120 ml Capacity

Code: [88-6710](#)



## Evaporating Dish - 250 ml Capacity

Code: [88-6712](#)



## Evaporating Dish - 385 ml Capacity

Code: [88-6714](#)



## Riffle Box 7mm Slot Width Complete with Three Containers.

Code: [23-3000](#)

Product Group: [Riffle Boxes \(Sample Dividers\)](#)

Manufactured from heavy-gauge sheet metal. BS recommended maximum particle size of 4.5 mm. EN recommended maximum particle size of 3.5 mm. Includes 12 slots each with a 7 mm slot width and an overall approximate capacity of 0.3 litres.

## Standards

BS 1377, BS 1924, BS 812, EN 932-1

## Specification

Recommended max particle size BS	4.5
Recommended max particle size EN	3.5
Slot width mm	7
No. of slots	12
Approx. capacity kg	0.3
Weight kg	1.5

## Alternatives



## Riffle Box 13mm Slot Width Complete with Three Containers.

Code: [23-3050](#)



## Riffle Box 15mm Slot Width Complete with Three Containers.

Code: [23-3070](#)



## Riffle Box 19mm Slot Width Complete with Three Containers.

Code: [23-3100](#)



## Riffle Box 25mm Slot Width Complete with Three Containers.

Code: [23-3150](#)



## Riffle Box 30mm Slot Width Complete with Three Containers.

Code: [23-3170](#)



## Riffle Box 38mm Slot Width Complete with Three Containers.

Code: [23-3200](#)



## Riffle Box 50mm Slot Width Complete with Three Containers.

Code: [23-3300](#)



## Riffle Box 64mm Slot Width Complete with Three Containers.

Code: [23-3350](#)





## Riffle Box 15mm Slot Width Complete with Three Containers.

Code: [23-3070](#)

Product Group: [Riffle Boxes \(Sample Dividers\)](#)

Manufactured from heavy-gauge sheet metal. BS recommended maximum particle size of 10 mm. EN recommended maximum particle size of 7.5 mm. Includes 12 slots each with a 15 mm slot width and an overall approximate capacity of 2 litres.

## Standards

BS 1377, BS 1924, BS 812, EN 932-1

## Specification

Recommended max particle size BS	10
Recommended max particle size EN	7.5
Slot width mm	15
No. of slots	12
Approx. capacity kg	2
Weight kg	8

## Alternatives



## Riffle Box 13mm Slot Width Complete with Three Containers.

Code: [23-3050](#)



## Riffle Box 19mm Slot Width Complete with Three Containers.

Code: [23-3100](#)



## Riffle Box 25mm Slot Width Complete with Three Containers.

Code: [23-3150](#)



## Riffle Box 30mm Slot Width Complete with Three Containers.

Code: 23-3170



## Riffle Box 38mm Slot Width Complete with Three Containers.

Code: 23-3200



## Riffle Box 50mm Slot Width Complete with Three Containers.

Code: 23-3300



## Riffle Box 64mm Slot Width Complete with Three Containers.

Code: 23-3350



## Riffle Box 7mm Slot Width Complete with Three Containers.

Code: 23-3000



## Riffle Box 25mm Slot Width Complete with Three Containers.

Code: [23-3150](#)

Product Group: [Riffle Boxes \(Sample Dividers\)](#)

Manufactured from heavy-gauge sheet metal. BS recommended maximum particle size of 16.5 mm. EN recommended maximum particle size of 12.5 mm. Includes 10 slots each with a 25 mm slot width and an overall approximate capacity of 4 litres.

## Standards

BS 1377, BS 1924, BS 812, EN 932-1

## Specification

Recommended max particle size BS	16.5
Recommended max particle size EN	12.5
Slot width mm	25
No. of slots	10
Approx. capacity kg	4
Weight kg	11.5

## Alternatives



## Riffle Box 13mm Slot Width Complete with Three Containers.

Code: [23-3050](#)



## Riffle Box 15mm Slot Width Complete with Three Containers.

Code: [23-3070](#)



## Riffle Box 19mm Slot Width Complete with Three Containers.

Code: [23-3100](#)



## Riffle Box 30mm Slot Width Complete with Three Containers.

Code: [23-3170](#)



## Riffle Box 38mm Slot Width Complete with Three Containers.

Code: [23-3200](#)



## Riffle Box 50mm Slot Width Complete with Three Containers.

Code: [23-3300](#)



## Riffle Box 64mm Slot Width Complete with Three Containers.

Code: [23-3350](#)



## Riffle Box 7mm Slot Width Complete with Three Containers.

Code: [23-3000](#)



## 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.



## Hydrometer Sedimentation Cylinder

Code: [24-4700](#)

Product Group: [Hydrometer Sedimentation Cylinder](#),  
[Hydrometer Jar](#)

Glass, 1000 ml capacity complete with rubber bung.

## Standards

BS 1337, ASTM D422, AASHTO T88

## Further Information

1000MI Glass

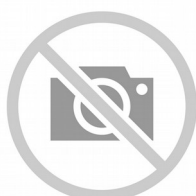
## Accessories



### Nomographic Chart for The Determination of Stokes Law.

Code: [24-4800](#)

## Spares/Consumables



### Solid Rubber Stopper

Code: [4699-0881](#)



## Soil Hydrometer BS EN DD ENV graduated 0.995 to 1.030 g/ml

Code: [24-4620](#)

Product Group: [Soil Hydrometers](#)

Graduated 0.995 to 1.030 g/ml.

## Standards

ASTM D422, BS 1377, EN 1997-2, ASTM E100, AASHTO T88

## Alternatives



## Soil Hydrometer Type 151H ASTM D422 Graduated 0.995 to 1.038 Specific Gravity.

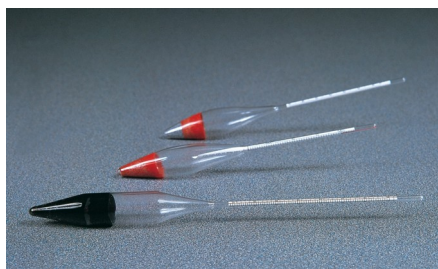
Code: [24-4650](#)



## Soil Hydrometer Type 152H ASTM/Aashto Graduated -5 to + 60G/Litre.

Code: [24-4640](#)





## Soil Hydrometer Type 152H ASTM/Aashto Graduated -5 to + 60G/Litre.

Code: [24-4640](#)

Product Group: [ASTM Soil Hydrometers, Soil Hydrometers](#)

Graduated -5 to +60 g/litre.

## Standards

BS 1377, EN 1997-2, ASTM D422, ASTM E100, AASHTO T88

## Specification

Construction	Molded, seamless.
Scale	Bouyoucos; double scale.
Calibration	At 68°F.
Weight	Net 4 oz. (113 g).

## Alternatives



## Soil Hydrometer BS EN DD ENV graduated 0.995 to 1.030 g/ml

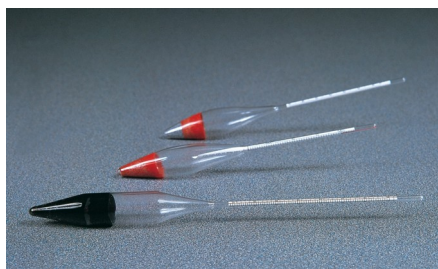
Code: [24-4620](#)



## Soil Hydrometer Type 151H ASTM D422 Graduated 0.995 to 1.038 Specific Gravity.

Code: [24-4650](#)





## Soil Hydrometer Type 151H ASTM D422 Graduated 0.995 to 1.038 Specific Gravity.

Code: [24-4650](#)

Product Group: [ASTM Soil Hydrometers, Soil Hydrometers](#)

Graduated 0.995 to 1.038 g/ml.

## Standards

ASTM D422, ASTM E100, AASHTO T88

## Specification

Construction	Molded, seamless.
Scale	Bouyoucos; double scale.
Calibration	At 68°F.
Weight	Net 4 oz. (113 g).

## Alternatives



## Soil Hydrometer BS EN DD ENV graduated 0.995 to 1.030 g/ml

Code: [24-4620](#)



## Soil Hydrometer Type 152H ASTM/Aashto Graduated -5 to + 60G/Litre.

Code: [24-4640](#)



## Sodium Hexametaphosphate 500G.

Code: [24-4145](#)

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

### Standards

ASTM D422, AASHTO T88, ASTM E100

### Spares/Consumables



## Solid Rubber Stopper

Code: [4699-0881](#)



## Beaker - 1000 ml

Code: [82-0220](#)

Product Group: [Beakers and Covers](#)

Borosilicate glass, squat form.

## Further Information

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



## Liquid Limit Set

Code: [2800E](#)

Product Group: [ASTM Liquid Limit Set](#)

Set includes:

- 1 Liquid Limit Device with ASTM Grooving Tools (24-0435).
- 1 Graduated Cylinder 100 ml (88-6007).
- 1 Mixing Dish (88-6712).
- 2 Doz. Moisture Content Cans (88-7002).
- 1 Flexible Spatula (88-7500).

## Standards

ASTM D4318



## Shrinkage Limit Set

Code: [2820E](#)

Product Group: [Shrinkage Limit Set](#)

Set includes:

- 1 Monel Shrinkage Dish (24-1550).
- 1 Crystallizing Dish (24-1600).
- 1 Shrinkage Prong Plate (24-1500).
- 1 25 ml Graduated Cylinder (88-6002A).
- 1 Evaporating Dish (88-6714).

## Standards

ASTM D427, AASHTO T92

## Further Information

Three pounds of mercury and other accessories required for shrinkage limit test; not included



## Shrinkage Mould to BS 1377

Code: [24-1800](#)

Product Group: [Linear Shrinkage](#)

To produce a specimen 140 mm long x 12.5 mm radius.

## Standards

BS 1377

## Accessories



## Vernier Caliper Range 0 to 200mm X 0.02mm.

Code: [81-0588](#)



## Constant Head Permeability Cell 75mm Diameter Specimen.

Code: [25-0580](#)

Product Group: [Constant Head Apparatus](#)

75 mm Diameter

## Standards

BS 1377-5

## Specification

Nominal Cell inside diameter	75 mm
Cell wall	Transparent plastic
Take-off points	3
End plates	Anodised aluminium
Weight kg	2.6



## Falling Head Permeability Cell.

Code: [25-0605](#)

Product Group: [Falling Head Apparatus](#)

## Specification

Cell	Plated seamless tube 100 mm diameter x 130 mm height
Base	Porous plate with three tie rods
Top plate	Machined to accept smaller tubes
Weight kg	3.4





## 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. (5,148 kPa) on 2.5" (63 mm) diam. samples.
Loading Beam	Cast aluminum; counterbalanced; 9:1, 10:1 and 11:1 ratios.
Frame	Cast aluminum; integral beam support jack; plated steel and platform.
Dimensions	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](#)

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## Mechanical Dial Indicator - 0.4" Range

Code: [88-4070](#)

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## Mechanical Dial Indicator - 1.0" Range Counter Clockwise Movement

Code: [88-4120](#)

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## Mechanical Dial Indicator - 10 mm Range

Code: [88-4080](#)

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## Mechanical Dial Indicator - 25 mm Range Counter Clockwise Movement

Code: [88-4130](#)

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## Set of Weights 100Kg Total Weight.

Code: [25-0408](#)

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## Weight Set A

Code: [25-0535](#)



## Weight Set B

Code: [25-0537](#)

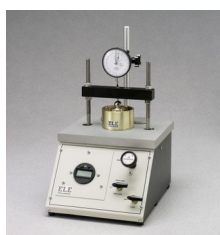
## Spares/Consumables



## Electronic Digital Indicator, 0.600"/15 mm range

Code: [88-4210](#)

## Alternatives



## Pneumatic Consolidation Apparatus

Code: [25-0560](#)



## Consolidation Cell/ Oedometer Complete 75mm Diameter Sample

Code: 25-0503

Product Group: Table Top Consolidation Apparatus, BS EN consolidation cells and accessories, Pneumatic Consolidation Apparatus, Fixed Ring Consolidation

## Specification

Application	BS/EN 10:1
Specimen Dia	75 mm
Specimen area	4418 mm <sup>2</sup>
Beam ratio	9:1
Load kg	1
Stress	20 kPa
Typical max stress	3.2 MPa
Stress for 1 kg m <sup>2</sup>	20 kPa
Application	BS
Specimen Diameter	75 mm
Specimen Area	4418 mm <sup>2</sup>
Beam Ratio	10:01
Load	1 kg
Stress	20 kPa
Typical Maximum Stress	3.2 MPa
Stress for 1 kg	20 kPa

## Accessories



### Calibration Disc 75mm Cell

Code: 25-0509



### 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](#)

---

### Spares/Consumables



## 75mm Dia Upper and Lower Porous Stones for Use on EL25-0503 Series Cell.

Code: [25-0503/13](#)



## Cutting Ring 75mm Cell.

Code: [25-0506](#)

---

### Alternatives



## Calibration Disc 75mm Cell

Code: [25-0509](#)



## 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](#)



## Unconfined Compression Tester, Hand-Operated

Code: 25-3604

Product Group: Unconfined Compression Tester,  
Hand-Operated

1,500 lb. load capacity.

### Standards

ASTM D2166, AASHTO T208

### Specification

Specimen Height	Up to 8" (203 mm).
Platens	3" (76 mm) diam.; with concentric grooves for centering specimen.
Proving Ring	Plated steel; complete with dial indicator and calibration charts in English and Metric units.
Strain Indicator	English: 1.0" range x 0.001" graduations. Metric: 25 mm range x 0.01 mm graduations.
Hand Crank	Two-piece; aluminum.
Base	One-piece; cast aluminum.
Crosshead	High-strength aluminum.
Dimensions	10-5/8" w. x 6-3/8" d. x 26-1/4" h. (270 x 162 x 667 mm).
Weight	Net 43 lbs. (19.5 kg); Shpg. 58 lbs. (26.3 kg).

### Accessories



## Unconfined Compression Test Accessory Set, English

Code: 25-3997

---



## Unconfined Compression Test Accessory Set, Metric

Code: 25-3998

---



## Unconfined Compression Tester, Hand-Operated

Code: 25-3605

---

## Alternatives



## Unconfined Compression Tester, Hand-Operated

Code: 25-3602

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# Product Sheet

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## Versa-Loader

Code: [25-3525/02](#)



## 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

Shear Force  
Vertical Load

Dimensions

Weight

between 0.000001"  
(0.00001 mm) to 0.399999"  
(9.99999  
mm) per minute.  
1,100 lbf. (5.0 kN) maximum.  
2,200 lbf. (10.0 kN) using 10:1  
lever ratio.  
44.7" l. x 12 .6" w. x 49.6" h.  
(1,135 x 320 x 1,260 mm).  
Net 181 lbs. (82 kg).

## Accessories



### Clamped Boss Load Ring - 2.0 kN

Code: 78-0060



### Clamped Boss Load Ring - 3.0 kN

Code: 78-0160



### Clamped Boss Load Ring - 4.5 kN

Code: 78-0260



### Dial Gauge 10mm Travel X 0.002mm Divisions.

Code: 25-0440



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

Code: [78-0264](#)



## Digital Proving Ring, 450 lbs (2.0 kN)

Code: [78-0064](#)



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

Code: [27-1697](#)



## Mechanical Dial Indicator - 25 mm Range Clockwise Movement

Code: [88-4110](#)



## S-Type Load Cell 5 kN.for Triaxial Tests. Fitted with 5 Pin Din Plug.

Code: [27-1551](#)



## Set of Weights 50 kg Slotted.

Code: [26-2132](#)



## Shear Box Assembly 100mm Sq.

Code: [26-2197](#)



## Shear Box Assembly 2.5 Inch Diameter

Code: [26-2213](#)



## Shear Box Assembly 60mm Sq.

Code: [26-2181](#)



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

Code: [27-1689](#)



## Weight Set A

Code: [25-0535](#)



## Weight Set B

Code: [25-0537](#)

## Spares/Consumables



## Dial Indicator - 1.0" Range

Code: [88-4100](#)



## Electronic Digital Indicator, 0.600"/15 mm range

Code: [88-4210](#)



## Vertical Dial Indicator, English

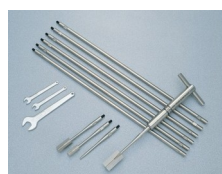
Code: [25-0445](#)

## Alternatives



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

Code: [26-2114/02](#)



## H60 Field Inspection Vane Tester 0-200Kpa In Carrying Case. includes calibration and certificates.

Code: [26-3335](#)



## Hand Vane Tester

Code: [26-3346](#)



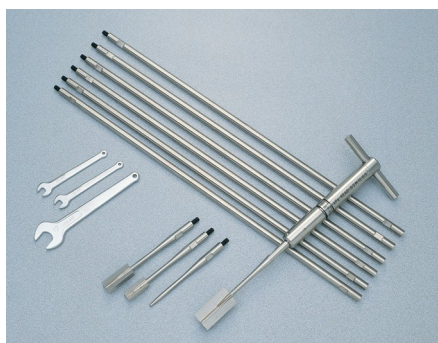
## Laboratory Vane Apparatus with 4 Springs and 12.7mm Vane; Hand Operated.

Code: [26-2270](#)



## Pocket Shearmeter with 3 Vanes 0 to 1Kgf/Cm2 X 0.5Kgf/Cm2.

Code: [26-2261](#)



## **H60 Field Inspection Vane Tester 0-200Kpa In Carrying Case. includes calibration and certificates.**

Code: [26-3335](#)

Product Group: [Inspection Vane](#)

This instrument is an essential tool for civil engineers involved in site investigation work. The unit is supplied in kit form with a carrying case incorporating the measuring head, extension rods, vanes, etc. The measuring head comprises a T-handle that is spring-loaded against the extension rod adaptor. Weight 3 kg.

### **Further Information**

Range 0 to 260 kPa, in carrying case with 6 x 0.5 metre extension rods, 3 vanes, dummy vane and tools. Supplied complete with Calibration Certificate.

### **Spares/Consumables**



## **H605 Extension Rod 0.5M and connection piece**

Code: [26-3335/11](#)

### **Alternatives**



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

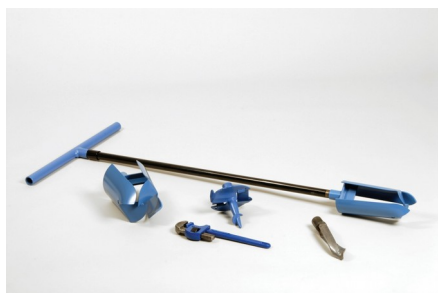
Code: [26-2114/02](#)





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

Code: [26-2114/01](#)



## 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.

## Accessories



## 38mm Diameter Sample Tube 230mm Long Complete with End Caps.

Code: [23-1577](#)



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

Code: [23-1541](#)



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

Code: [23-1547](#)



## Jarring Link for Driving Sample Tubes.

Code: [23-1587](#)



## Spiral Auger 40mm Diameter. One Piece Model

Code: [23-1617](#)



## Stillson Wrench Size 14.

Code: 23-1543

---

### Alternatives



## 100mm Dia Soil Auger Head

Code: 23-1501



## 150mm Dia Gravel Auger Head.

Code: 23-1517



## 50mm Dia Dutch Soil Auger Head.

Code: 23-1525



## Vane 12.7mm Diameter X 12.7mm Long.

Code: [26-2279](#)

Product Group: [Laboratory Vane Apparatus](#),  
[Laboratory Vane Apparatus](#)

## Standards

BS 1377

## Accessories



## Vane 12.7mm Diameter X 19mm Long

Code: [26-2281](#)



## Vane 12.7mm Diameter X 25.4mm Long.

Code: [26-2283](#)

## Spares/Consumables



## Set of 4 Calibrated Springs for Laboratory Vane Apparatus.

Code: [26-2275/10](#)

## Alternatives



### Vane 12.7mm Diameter X 19mm Long

Code: [26-2281](#)



### Vane 12.7mm Diameter X 25.4mm Long.

Code: [26-2283](#)



## Vane 12.7mm Diameter X 25.4mm Long.

Code: [26-2283](#)

Product Group: [Laboratory Vane Apparatus](#),  
[Laboratory Vane Apparatus](#)

## Standards

BS 1377

## Accessories



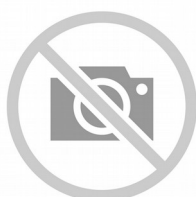
## Vane 12.7mm Diameter X 12.7mm Long.

Code: [26-2279](#)



## Vane 12.7mm Diameter X 19mm Long

Code: [26-2281](#)



## Vane 12.7mm Diameter X 25.4mm Long.

Code: [26-2283](#)

## Spares/Consumables



## Set of 4 Calibrated Springs for Laboratory Vane Apparatus.

Code: [26-2275/10](#)

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### Alternatives



## Vane 12.7mm Diameter X 12.7mm Long.

Code: [26-2279](#)



## Vane 12.7mm Diameter X 19mm Long

Code: [26-2281](#)



## Vane 12.7mm Diameter X 25.4mm Long.

Code: [26-2283](#)



## 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.).



# 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).

## 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](#)



## 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

## Accessories



### 50kN Clamped Boss Load Ring

Code: [78-0860](#)



### 50kN S-type Load Cell

Code: [27-1559](#)



## ASTM Cbr Mould Complete with Collar & Perforated Base

Code: [24-9228](#)

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## BS Cbr Mould Body.

Code: [24-9198](#)

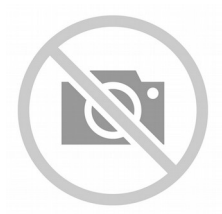
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## BS Extension Collar

Code: [24-9200](#)

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## BS Solid Base or Top Plate

Code: [24-9204](#)

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## Cbr Penetration Piston (Adjustable).

Code: [24-9183](#)

---



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

Code: [27-1705](#)



## 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](#)



## Penetration Dial Gauge BS

Code: [24-9186](#)



## Penetration Piston

Code: [24-9182](#)



## Penetration/Swell Dial Gauge ASTM.

Code: [24-9184](#)

## Alternatives



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

Code: [24-9150/02](#)



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

Code: [24-9150/06](#)



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

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



## MultiPlex 50 Load Frame

Code: [25-3700/01](#)



## Cbr/Core Cutter Extruder Frame and Hydraulic Jack Extrudes 150mm/6 Inch Diameter Specimens.

Code: [23-4250](#)

Product Group: [Soil Extruders](#)

Comprises a frame and hydraulic jack with adaptor plate supplied. Extrudes samples from BS CBR Mould and ASTM CBR Mould.

## Standards

BS 1377-1

## Accessories



## Adaptor Plate for 23-4250 to Extrude 100mm/4 Inch Diameter and Marshall Specimens.

Code: [23-4300](#)

## Alternatives



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

Code: [23-4090](#)





### **Proctor/Core Cutter Extruder Frame and Hydraulic Jack. Extrudes 100mm/4 Inch Diameter Specimens**

Code: [23-4200](#)



## 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.

## Accessories



### Trimming Knife

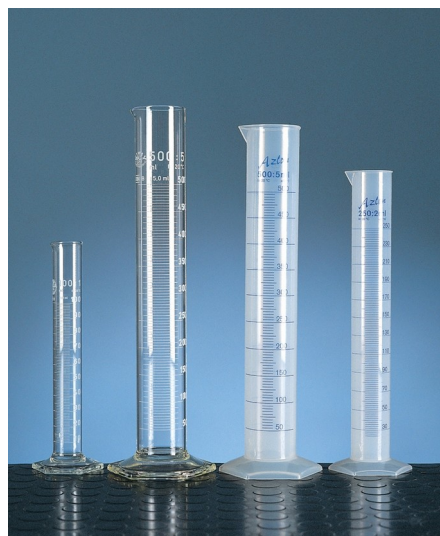
Code: 81-0710

## Alternatives



## 1.4" and 2.8" Hand Specimen Trimmer

Code: 23-5802



## Measuring Cylinder - Glass 1000 ml

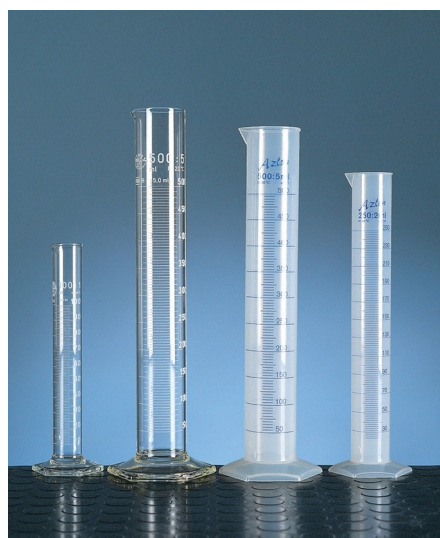
Code: [82-0500](#)

Product Group: [Measuring Cylinders, BS](#)

Soda glass, spouted, BS EN 4788.

## Further Information

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



## Measuring Cylinder - Plastic 1000 ml

Code: [82-1900](#)

Product Group: [Measuring Cylinders, BS](#)

Plastic with spout, graduated to BS 5404.

## Further Information

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



## Mortar & Pestle - 650 ml Capacity, 9" Length

Code: [88-6804](#)

Product Group: [Mortars and Pestles](#)

Mortar 7-1/4" (184 mm) diam. x 3-3/4" (95 mm) h. 9" (229 mm) long pestle.

## Specification

Material

Porcelain.

Weight

Net 6 lbs. (2.7 kg).

## Alternatives



## Mortar & Pestle - 225 ml Capacity, 7" Length

Code: [88-6802](#)



## Soil Mortar

Code: [88-6810](#)



## Soil Pestle

Code: [88-6812](#)



## Graduated Pipette - 100 ml

Code: [82-1320](#)

Product Group: [Pipettes and Burettes](#)

Type 1, Class B, BS 700.

## Further Information

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



## Bulb Pipette

Code: [82-1300](#)

Product Group: [Pipettes and Burettes](#)

BS 1583. 50 ml.

## Further Information

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





## Digital Stopwatch

Code: [88-4340](#)

Product Group: [Digital Stopwatch](#), [Bitumen Penetration Test](#)

## Specification

Operation

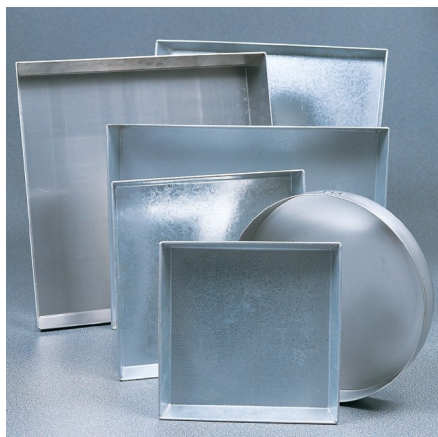
Start-stop and lap split-reset push-buttons.

Time Range

Display up to 9 hours, 59 minutes, 59.99 seconds in 0.01 second increments.

Weight

4 oz. (227 g).



## Sample Tray - 910 x 910 x 76 mm

Code: [81-4160](#)

Product Group: [Sample Trays](#)

### Further Information

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



## Trowel

Code: [88-7400](#)

Product Group: [Trowel](#)

2-1/2" w. x 4-1/2" l. (63.5 x 114 mm) blade.

## Specification

Handles

Wood.

Blades

Steel plated; triangular.



## Volumetric Flask - 500 ml

Code: [82-1040](#)

Product Group: [Funnels and Flasks](#)

Soda glass, stoppered to BS ISO 1042 Class B.

## Further Information

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