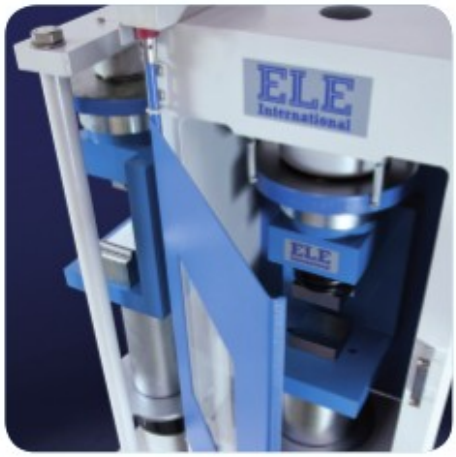
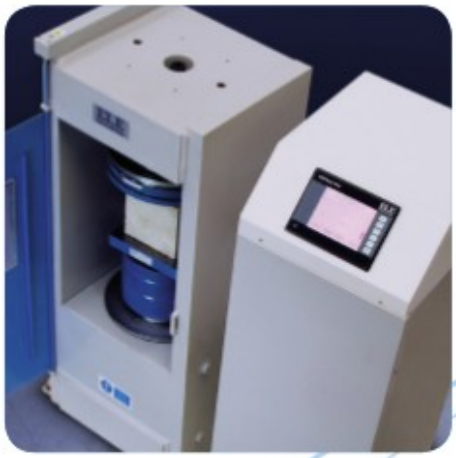


ELE International



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

www.ele.com

Contents

This wishlist was generated on 09/11/2017, and contains the following Products:

78-1225/01
100 Litre Drying Oven

82-2100
Desiccator - Non-vacuum

82-2110
Desiccator Cabinet - Non-vacuum

82-7091
Silica Gel

83-4170/01
Muffle Furnace

24-2885
Pyknometer Complete with Non-Corrodable Cone and Rubber Seal 1Kg Capacity

82-2660
Funnel

88-7200
Plastic Funnel - 2" top diam.

82-1970
Evaporating Dish - 100 x 40 mm

82-2010
Evaporating Dish - 200 x 55 mm

88-6718
Evaporating Dish - 1.285 ml Capacity

88-6710
Evaporating Dish - 120 ml Capacity

88-6714
Evaporating Dish - 385 ml Capacity

88-6716
Evaporating Dish - 765 ml Capacity

Contents

23-3000
Riffle Box 7mm Slot Width Complete with Three Containers.

23-3070
Riffle Box 15mm Slot Width Complete with Three Containers.

23-3150
Riffle Box 25mm Slot Width Complete with Three Containers.

80-0200/01
ELE Sieve Shaker

24-4700
Hydrometer Sedimentation Cylinder

24-4620
Soil Hydrometer BS EN DD ENV graduated 0.995 to 1.030 g/ml

24-4640
Soil Hydrometer Type 152H ASTM/Aashto Graduated -5 to + 60G/Litre.

24-4650
Soil Hydrometer Type 151H ASTM D422 Graduated 0.995 to 1.038 Specific Gravity.

24-4145
Sodium Hexametaphosphate 500G.

82-0220
Beaker - 1000 ml

2800E
Liquid Limit Set

2820E
Shrinkage Limit Set

24-1800
Shrinkage Mould to BS 1377

25-0580
Constant Head Permeability Cell 75mm Diameter Specimen.

Contents

25-0605
Falling Head Permeability Cell.

25-0402
Consolidation Frame One Dimensional Consolidation Incremental Loading Device.

25-0503
Consolidation Cell/ Oedometer Complete 75mm Diameter Sample

25-3604
Unconfined Compression Tester, Hand-Operated

26-2114/01
Digital Direct/Residual Shear Apparatus Complete with Lever Loading Assembly. 220-240V 50/60Hz 1Ph.

26-3335
H60 Field Inspection Vane Tester 0-200Kpa In Carrying Case. includes calibration and certificates.

23-1504
150mm Dia Soil Auger Head

26-2279
Vane 12.7mm Diameter X 12.7mm Long.

26-2283
Vane 12.7mm Diameter X 25.4mm Long.

25-3518/01
Digital Tritest 50 Load Frame

24-9150/01
Cbr-Test 50 Machine 50kN Capacity BS and ASTM Supplied with Stabilising Bar.

23-4250
Cbr/Core Cutter Extruder Frame and Hydraulic Jack Extrudes 150mm/6 Inch Diameter Specimens.

23-5800
Hand Operated Soil Lathe for 38mm Dia Specimens Up to 100mm Long.

82-0500

Contents

Measuring Cylinder - Glass 1000 ml

82-1900
Measuring Cylinder - Plastic 1000 ml

88-6804
Mortar & Pestle - 650 ml Capacity, 9" Length

82-1320
Graduated Pipette - 100 ml

82-1300
Bulb Pipette

88-4340
Digital Stopwatch

81-4160
Sample Tray - 910 x 910 x 76 mm

88-7400
Trowel

82-1040
Volumetric Flask - 500 ml

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: Dessicators

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 ºC
Electrical supply	220 – 240 V AC, 50 - 60 Hz, 1 ph
Power supply	5000 KW
Weight	130 kg

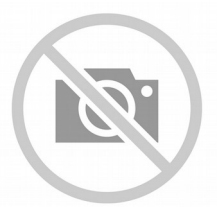
Spares/Consumables

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

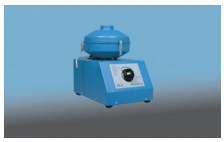
Alternatives

Heat of Hydration Apparatus

Code: 38-4600/01

Heat of Hydration Apparatus

Code: 38-4600/06



Rotatest 1500

Code: 45-3810/01

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.

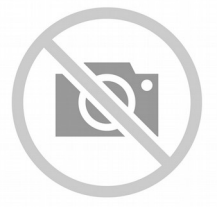
Code: 24-2900

Density Bottle 25Ml.

Code: 24-2890

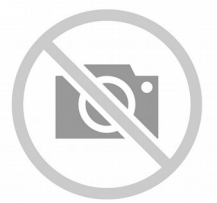
Pyknometer Gasket

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

1000Ml Glass

Accessories

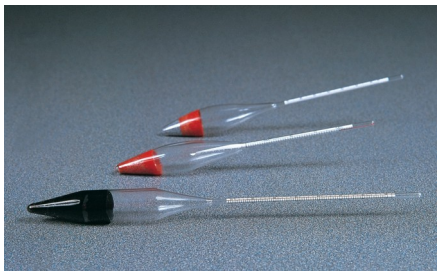
Nomographic Chart for The Determination of Stokes Law.

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

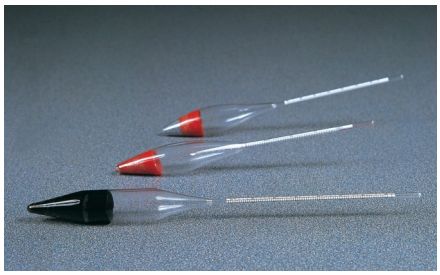
Alternatives

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 68Â°F.
Weight	Net 4 oz. (113 g).

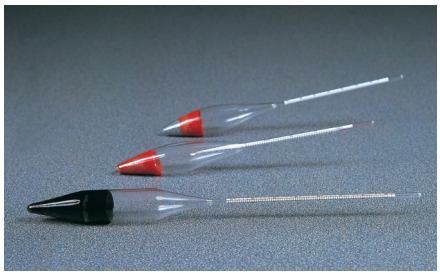
Alternatives

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

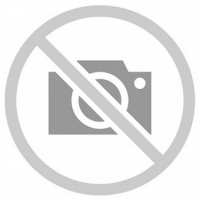
Sodium Hexametaphosphate 500G.

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

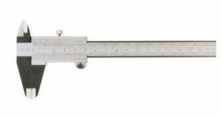
Code: 24-1800
Product Group: Linear Shrinkage

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 diameer	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

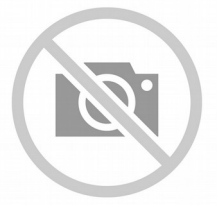
Further Information

Supplied without dial gauge and weights.

Specification

Load Capacity	48 tons/sq. ft. (5,14 8 kPa) on 2.5” (63 mm) diam. samples.
Loading Beam	Cast aluminum; counterbalanced; 9:1,10:1 and 11 :1 ratios.
Frame	Cast aluminum; integral beam support jack; plated steel and platform.
Dimensions	203 x 711 x 508 mm, (8” w. x 28” d. x 20” h) . excluding weight hanger.
Weight	(Net 30 lbs). 13 .6 kg; Shpg. 40 lbs. (18.1 kg).

Accessories



16 Ton Weight Set

Code: 25-0544

2.416" Fixed Ring Consolidometer

Code: 25-0480

2.5" Floating Ring Consolidometer

Code: 25-0530

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

Code: 25-0479

Consolidation Cell Complete 50mm Diameter Sample.

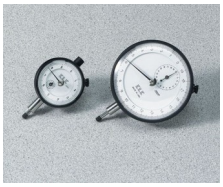
Code: 25-0455

Consolidation Cell/ Oedometer Complete 75mm Diameter Sample

Code: 25-0503

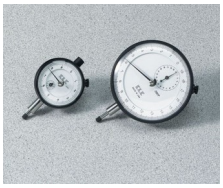
Floor Mounting Stand.

Code: 25-0429



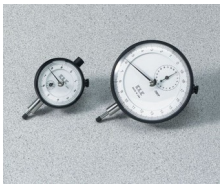
Mechanical Dial Indicator - 0.4" Range

Code: 88-4070



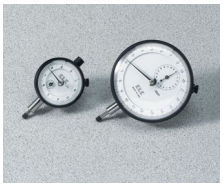
Mechanical Dial Indicator - 1.0" Range Counter Clockwise Movement

Code: 88-4120



Mechanical Dial Indicator - 10 mm Range

Code: 88-4080



Mechanical Dial Indicator - 25 mm Range Counter Clockwise Movement

Code: 88-4130

Set of Weights 100Kg Total Weight.

Code: 25-0408

Weight Set A

Code: 25-0535

Weight Set B

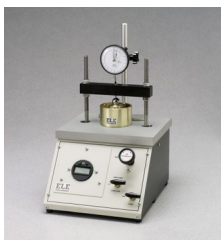
Code: 25-0537

Spares/Consumables

Electronic Digital Indicator, 0.600"/15 mm range

Code: 88-4210

Alternatives



Pneumatic Consolidation Apparatus

Code: 25-0560

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 mm²
Beam ratio	9:1
Load kg	1
Stress	20 kPa
Typical max stress	3.2 MPa
Stress for 1 kg m²	20 kPa
Application	BS
Specimen Diameter	75 mm
Specimen Area	4418 mm²
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 8â (203 mm).
Platens	3â (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: 1.0â range x 0.001â 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	10-5/8â w. x 6-3/8â d. x 26-1/4â 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

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

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

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)

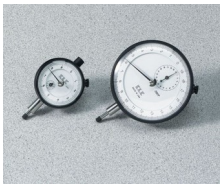
Code: 78-0264

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

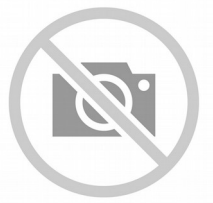


Mechanical Dial Indicator - 25 mm Range Clockwise Movement

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

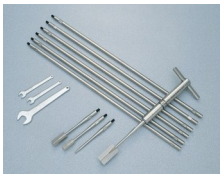
Vertical Dial Indicator, English

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

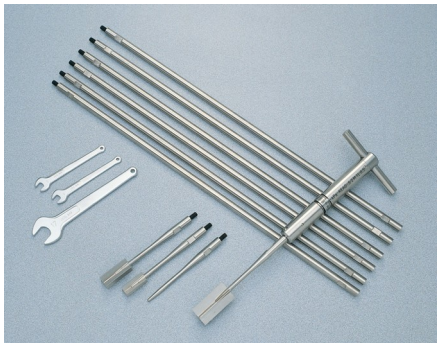
Code: 26-3346

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

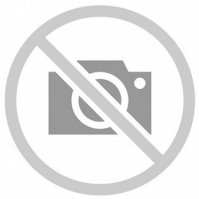
Vane 12.7mm Diameter X 12.7mm Long.

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.

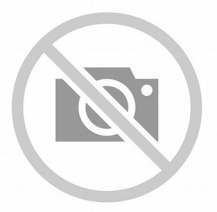
Code: 26-2283

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

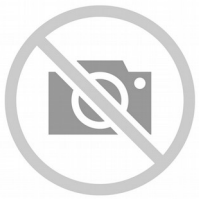
Vane 12.7mm Diameter X 25.4mm Long.

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

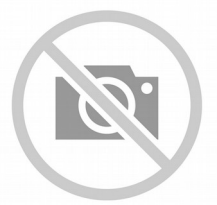
Vane 12.7mm Diameter X 19mm Long

Code: 26-2281

Vane 12.7mm Diameter X 25.4mm Long.

Code: 26-2283

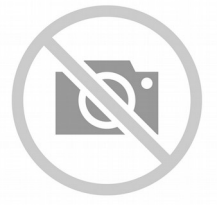
Spares/Consumables



Set of 4 Calibrated Springs for Laboratory Vane Apparatus.

Code: 26-2275/10

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.).

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

BS Cbr Mould Body.

Code: 24-9198

BS Extension Collar

Code: 24-9200

BS Solid Base or Top Plate

Code: 24-9204

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

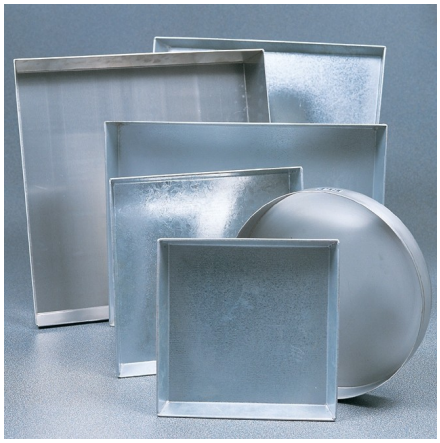
Digital Stopwatch

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