



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

This wishlist was generated on 04/04/2018, and contains the following Products:

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24-9150/01

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

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24-9182

**Penetration Piston**

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24-9186

**Penetration Dial Gauge BS**

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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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24-9214

**2Kg Annular Surcharge Weight**

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24-9216

**2Kg Split Surcharge Weight.**

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78-0760

**Clamped Boss Load Ring - 28.0 kN**

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24-9198

**BS Cbr Mould Body.**

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24-9200

**BS Extension Collar**

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24-9204

**BS Solid Base or Top Plate**

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24-9202

**BS Perforated Base Plate.**

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24-9206

**Cbr Cutting Collar with Area Ratio of 21.9% to Fit BS Moulds.**

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24-9208

**C-Spanner for BS Cbr Mould. Two Required.**

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24-9212

## Static Compaction Plug.

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24-9237

**Spacer Disc 5-7/8" Diameter**

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24-9220

**Filter Papers 150mm Dia Equivalent to Whatman No 1. Box of 100.**

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24-9002

**Standard Compaction Rammer 2.5kg BS1377**

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24-9210

**Base Plate Tool for BS Mould**

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24-9004

**BS Compaction Rammer 4.5Kg Wt.**

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42-5305/01

**Los Angeles Abrasion Machine Meets ASTM and European Standards.  
220-240V 50Hz 1Ph.**

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25-0440

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

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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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26-2185

**Specimen Cutter 60mm Sq.**

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26-2189

**Specimen Extrusion Tool 60 mm sq.**

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78-0060

**Clamped Boss Load Ring - 2.0 kN**

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83-5456

## Dial Gauge

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26-2181/10

### Porous Plate 60mm Sq.

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81-0588

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

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81-0590

### Vernier Caliper (LCD) Range 0 to 200mm X 0.01mm

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78-0135/01

### 425 Litre Drying Oven

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78-1250/01

### 225 Litre Drying Oven

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45-6550/01

### 30 L Heating Bath with Led Display Cover

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78-2950/01

### Hotplate

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82-7720/01

### Vacuum Pump

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81-0375

### Rubber Tubing

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82-7720/10

### Vacuum Oil

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46-5295/01

### Semi-Automatic Penetrometer

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46-5360/10

### Penetration Needle

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46-5800

### Transfer Dish

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46-5860

### Penetration Tin

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# Contents

[www.ele.com](http://www.ele.com)  
+44 (0) 01525 249 200



46-5861

**Penetration Tin**

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82-1060

**Volumetric Flask - 1000 ml**

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## 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](#)

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## 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](#)



## 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 Dial Gauge BS

Code: [24-9186](#)

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

Complete with rack extensions and chisel edge anvil. 25 mm travel x 0.01 mm divisions.

## 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



## 2Kg Annular Surcharge Weight

Code: [24-9214](#)

Product Group: [BS EN CBR mould accessories](#)

## Standards

EN 13286-4, BS 1377-4, BS 1924-2

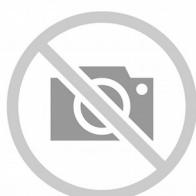
## Accessories



### BS Solid Base or Top Plate

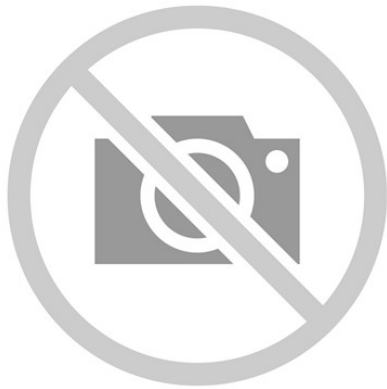
Code: [24-9204](#)

## Alternatives



### BS Solid Base or Top Plate

Code: [24-9204](#)



## 2Kg Split Surcharge Weight.

Code: [24-9216](#)

Product Group: [BS EN CBR mould accessories](#)

## Standards

EN 13286-4, BS 1377-4, BS 1924-2





## Clamped Boss Load Ring - 28.0 kN

Code: 78-0760

Product Group: Clamped Boss Load Rings, Digital Tritest 50 Load Frame, Load Measurement, Proving Rings, CBR-Test 50 Machine, Conversion of In-situ to Laboratory CBR, Load Measurement, CBR Loading Press, Hand-Operated, Force measurement

## Standards

BS 1377, BS 1924

## Specification

Capacity: kN, kgf, lbf	28.0, 2800, 6000
Typical Design sensitivity: N/div, kgf/div, lbf/div	25.5, 2.54, 5.45
Overall height mm	248
Approx weight kg	5.4
Capacity	28 kN
Value of CBR	Average range of CBR
Capacity - lbf	6,000
Capacity - kN	28
Capacity - kgf	2,800
Typical Design Sensitivity - lbf/div	5.45
Typical Design Sensitivity - kN/div	25.5
Typical Design Sensitivity - Kgf/div	2.54
Overall Height	9.76" (248 mm)
Approx Weight	11 .9 lbs.(5.4 kg)

## Accessories



## 50kN Clamped Boss Load Ring

Code: 78-0860



## Clamped Boss Load Ring - 10.0 kN

Code: [78-0460](#)



## Clamped Boss Load Ring - 2.0 kN

Code: [78-0060](#)



## Clamped Boss Load Ring - 3.0 kN

Code: [78-0160](#)



## Clamped Boss Load Ring - 4.5 kN

Code: [78-0260](#)



## Digital Proving Ring, 6,000 lbs (28.0 kN)

Code: [78-0764](#)

## Spares/Consumables



## Spare Dial Indicator for Load Rings

Code: [78-5461](#)

## Alternatives



## 50kN Clamped Boss Load Ring

Code: [78-0860](#)

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## Clamped Boss Load Ring - 10.0 kN

Code: [78-0460](#)

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## Clamped Boss Load Ring - 2.0 kN

Code: [78-0060](#)

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## Clamped Boss Load Ring - 3.0 kN

Code: [78-0160](#)

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## Clamped Boss Load Ring - 4.5 kN

Code: [78-0260](#)

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## Digital Proving Ring, 6,000 lbs (28.0 kN)

Code: [78-0764](#)



## BS Cbr Mould Body.

Code: 24-9198

Product Group: BS EN CBR mould, Accessories for  
BS compaction and CBR

## Standards

ASTM D1883, AASHTO T193

## Specification

Mould	152 x 127 mm (inside diameter x height)
Collar	51 mm height, fits both ends of mould
Base plate	Solid, fits both ends of mould
Construction	All steel, plated
Weight kg	7.3



## BS Extension Collar

Code: [24-9200](#)

Product Group: [BS EN CBR mould accessories](#),  
[Accessories for BS compaction and CBR](#)

## Standards

EN 13286-4, BS 1377-4, BS 1924-2



## BS Solid Base or Top Plate

Code: [24-9204](#)

Product Group: [BS EN CBR mould accessories,](#)  
[Accessories for BS compaction and CBR](#)

## Standards

EN 13286-4, BS 1377-4, BS 1924-2

## Accessories



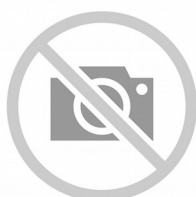
### 2Kg Annular Surcharge Weight

Code: [24-9214](#)



### Base Plate Tool for BS Mould

Code: [24-9210](#)



### BS Perforated Base Plate.

Code: [24-9202](#)



## **Cbr Cutting Collar with Area Ratio of 21.9% to Fit BS Moulds.**

Code: [24-9206](#)



## **Filter Papers 150mm Dia Equivalent to Whatman No 1. Box of 100.**

Code: [24-9220](#)

### **Alternatives**



## **2Kg Annular Surcharge Weight**

Code: [24-9214](#)



## **Base Plate Tool for BS Mould**

Code: [24-9210](#)



## **BS Perforated Base Plate.**

Code: [24-9202](#)





### **Cbr Cutting Collar with Area Ratio of 21.9% to Fit BS Moulds.**

Code: [24-9206](#)



### **Filter Papers 150mm Dia Equivalent to Whatman No 1. Box of 100.**

Code: [24-9220](#)



## BS Perforated Base Plate.

Code: [24-9202](#)

Product Group: [BS EN CBR mould accessories](#)

To fit mould body

## Standards

EN 13286-4, BS 1377-4, BS 1924-2

## Accessories



### BS Solid Base or Top Plate

Code: [24-9204](#)

## Alternatives



### BS Solid Base or Top Plate

Code: [24-9204](#)



## Cbr Cutting Collar with Area Ratio of 21.9% to Fit BS Moulds.

Code: [24-9206](#)

Product Group: [BS EN CBR mould accessories](#)

To fit BS/EN mould body.

## Standards

EN 13286-4, BS 1377-4, BS 1924-2

## Accessories



### BS Solid Base or Top Plate

Code: [24-9204](#)

## Alternatives



### BS Solid Base or Top Plate

Code: [24-9204](#)



## C-Scanner for BS Cbr Mould. Two Required.

Code: [24-9208](#)

Product Group: [BS EN CBR mould acccessories](#)

To fit BS/EN CBR moulds and collars. Two required.

## Standards

BS 1377-4, BS 1924-2, EN 13286-4



## Static Compaction Plug.

Code: [24-9212](#)

Product Group: [BS EN CBR mould accessories](#)

Steel, 150 mm dia x 51 mm thick. Complete with removable handle.

## Standards

EN 13286-4, BS 1377-4, BS 1924-2



## Spacer Disc 5-7/8" Diameter

Code: [24-9237](#)

Product Group: [Spacer Discs](#)

5-7/8" diam. x 2" h. (147.6 x 50.8 mm).

## Specification

Construction	Steel; machined on all sides.
Finish	Plated.
Weights	Net 15.4 lbs. (7 kg).

## Accessories



## ASTM Spacing Disc.

Code: [24-9238](#)



## Filter Papers 150mm Dia Equivalent to Whatman No 1. Box of 100.

Code: [24-9220](#)

Product Group: [BS EN CBR mould accessories](#)

Box of 100.

## Standards

EN 13286-4, BS 1377-4, BS 1924-2

## Accessories



### BS Solid Base or Top Plate

Code: [24-9204](#)

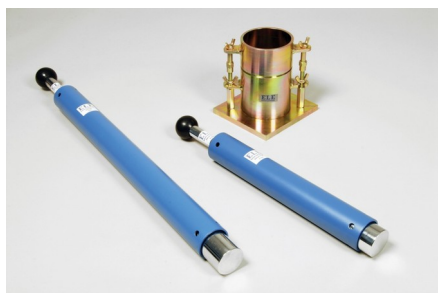
## Alternatives



### BS Solid Base or Top Plate

Code: [24-9204](#)





## Standard Compaction Rammer 2.5kg BS1377

Code: [24-9002](#)

Product Group: [BS/EN compaction test 2.5kg](#)

50mm diameter with 300mm drop, manufactured from corrosion protected steel.

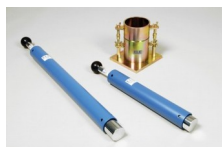
## Standards

BS 1377-4, BS 1924-2

## Specification

Rammer	50 mm dia, 2.5 kg
Drop	300 mm
Guide Sleeve	Machined steel tubing with air pressure release holes
Finish	Corrosion resistant
Weight kg	4.2

## Alternatives



## BS Compaction Rammer 4.5Kg Wt.

Code: [24-9004](#)



## Base Plate Tool for BS Mould

Code: [24-9210](#)

Product Group: [BS EN CBR mould accessories](#)

To fit into base plate to assist removal from mould body.

## Standards

EN 13286-4, BS 1377-4, BS 1924-2

## Accessories



### BS Solid Base or Top Plate

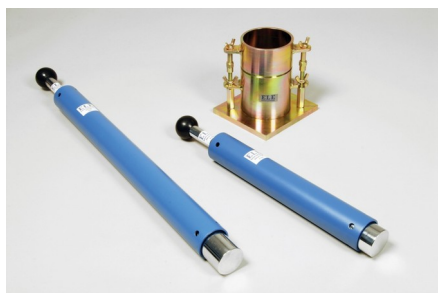
Code: [24-9204](#)

## Alternatives



### BS Solid Base or Top Plate

Code: [24-9204](#)



## BS Compaction Rammer 4.5Kg Wt.

Code: [24-9004](#)

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

50mm diameter with 450mm drop, manufactured from corrosion protected steel.

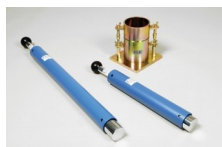
## Standards

BS 1377-4, BS 1924-2

## Specification

Rammer	50 mm dia, 4.5 kg
Drop	450 mm
Guide Sleeve	Machined steel tubing with air pressure release holes
Finish	Corrosion resistant
Weight kg	7.5

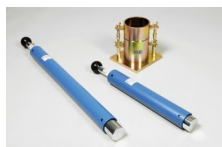
## Accessories



## Straight Edge 300mm.

Code: [24-9010](#)

## Alternatives



## Standard Compaction Rammer 2.5kg BS1377

Code: [24-9002](#)



## Los Angeles Abrasion Machine Meets ASTM and European Standards. 220-240V 50Hz 1Ph.

Code: [42-5305/01](#)

Product Group: [Los Angeles Abrasion Machine](#), [Los Angeles Abrasion Machine](#)

The machine consists of a closed hollow cylindrical steel drum rotating around its horizontal axis on ball bearing units mounted on a sturdy base framework.

The drum is driven at a speed of between 30 - 33 rpm via an enclosed belt drive arrangement from an electric motor/gearbox unit situated on the base frame. Inside the drum a full length steel shelf is attached, accessed by a dust-proof opening.

The cylinder incorporates a removable internal shelf, one shelf position is provided to meet the requirements of both the ASTM and EN test standards.

Controls are located easily on the right-hand side of the machine at convenient operator height.

Start and stop push buttons and a subtracting revolution counter allows the user to preset the number of revolutions before an automatic stop.

## Standards

EN 1097-2, ASTM C131, ASTM C535, AASHTO T96, NF P18-573

## Further Information

For 220 - 240 V AC, 50 Hz, 1ph.

## Specification

Capacity	5,000 g each of aggregate and charge.
Drum Speed	30-33 rpm.
Frame	Welded structural steel.
Counter	Adjustable; automatic shut-off; push-button reset and adjustment.
Controls	Magnetic motor starter with overload protection and integral On-Off switches.
Dimensions	38.6" w. x 36.2" d. x 38.6" h. (980 x 920 x 980 mm).
Weight	Net 882 lbs. (400 kg).

Motor

1 HP

## Accessories

### Set of 12 Abrasive Charges (ASTM).

Code: [42-5300/10](#)



### Set of 12 Abrasive Charges EN)

Code: [42-5305/10](#)



## Alternatives



### Los Angeles Abrasion Machine with CE Safety Cabinet W/ Microswitches. 220-240V 50Hz 1Ph.

Code: [42-5310/01](#)



### Los Angeles Abrasion Machine with CE Safety Cabinet W/ Microswitches. 220-240V 60Hz 1Ph.

Code: [42-5310/06](#)



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

Code: [25-0440](#)

Product Group: [Measurement of Horizontal and Vertical Movement](#), [Vertical settlement measurement](#), [Direct/Residual Shear Apparatus](#)

## Spares/Consumables



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

Code: [88-4210](#)



## Vertical Dial Indicator, English

Code: [25-0445](#)



## 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](#)



## 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

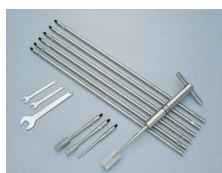
Code: [25-0445](#)

### 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](#)

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

Code: [26-2261](#)

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## Shear Box Assembly 100mm Sq.

Code: [26-2197](#)

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## Shear Box Assembly 2.5 Inch Diameter

Code: [26-2213](#)

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## Shear Box Assembly 60mm Sq.

Code: [26-2181](#)



## 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

## Accessories



### Slotted Surcharge Weight 0.25 kg

Code: [26-2147](#)



### Slotted Surcharge Weight 0.5 kg.

Code: [26-2145](#)



### Slotted Surcharge Weight 1 kg.

Code: [26-2143](#)



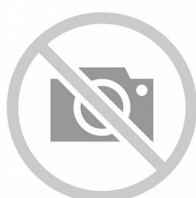
## Slotted Surcharge Weight 10 kg.

Code: 26-2137



## Slotted Surcharge Weight 2 kg.

Code: 26-2141



## Slotted Surcharge Weight 5 kg.

Code: 26-2139

## Alternatives



## Slotted Surcharge Weight 0.25 kg

Code: 26-2147



## Slotted Surcharge Weight 0.5 kg.

Code: 26-2145



## Slotted Surcharge Weight 1 kg.

Code: [26-2143](#)



## Slotted Surcharge Weight 10 kg.

Code: [26-2137](#)



## Slotted Surcharge Weight 2 kg.

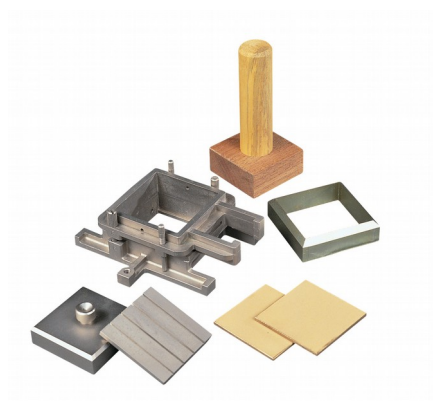
Code: [26-2141](#)



## Slotted Surcharge Weight 5 kg.

Code: [26-2139](#)





## 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

## Accessories



## Specimen Cutter 60mm Sq.

Code: 26-2185



## Specimen Extrusion Tool 60 mm sq.

Code: 26-2189

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### Spares/Consumables



## Porous Plate 60mm Sq.

Code: 26-2181/10

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### Alternatives



## 2.42" Diameter Shear Box Assembly (California Type)

Code: 26-2223



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

Code: 26-2114/02



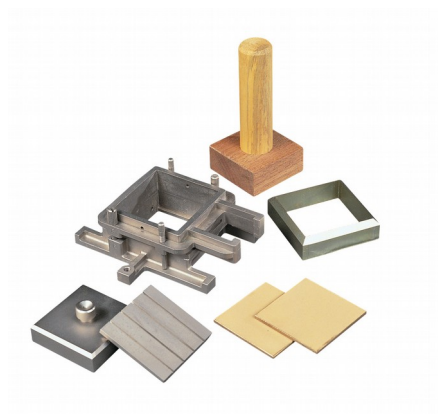
## Digital Direct/Residual Shear Apparatus Complete with Lever Loading Assembly. 220-240V 50/60Hz 1Ph.

Code: 26-2114/01



## Shear Box Assembly 100mm Sq.

Code: 26-2197



### Specimen Cutter 60mm Sq.

Code: 26-2185

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

## Standards

ASTM D3080, AASHTO T236

## Accessories



**Specimen Cutter 100mmsq.**

Code: 26-2201



**Specimen Cutter 2.5 Inch Diameter.**

Code: 26-2217

## Alternatives



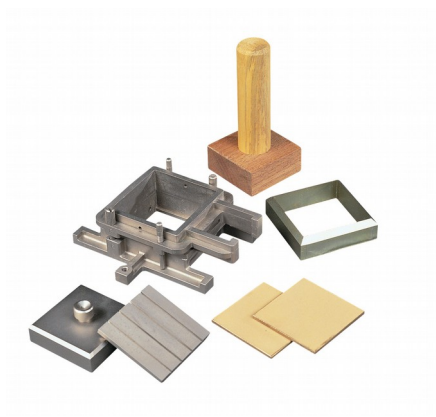
**Specimen Cutter 100mmsq.**

Code: 26-2201



## Specimen Cutter 2.5 Inch Diameter.

Code: 26-2217



## 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

## Accessories



## Specimen Extrusion Tool 2.5 Inch Diameter.

Code: [26-2221](#)

## Alternatives



## Specimen Extrusion Tool 2.5 Inch Diameter.

Code: [26-2221](#)



## Clamped Boss Load Ring - 2.0 kN

Code: 78-0060

Product Group: Clamped Boss Load Rings, Digital Tritest 50 Load Frame, Proving Rings, Force measurement, Measurement of Load (Shear Stress), Direct/Residual Shear Apparatus

## Standards

BS 1377, ASTM D3080

## Specification

Capacity: kN, kgf, lbf	2.0, 200, 450
Typical Design sensitivity: N/div, kgf/div, lbf/div	1.3, 0.13, 0.30
Overall height mm	248
Approx weight kg	3.2
Capacity - lbf	450
Capacity - kN	2
Capacity - kgf	200
Typical Design Sensitivity - lbf/div	0.3
Typical Design Sensitivity - kN/div	1.3
Typical Design Sensitivity - Kg/div	0.13
Overall Height	9.76" (248 mm)
Approx Weight	7 lbs. (3.2 kg)

## Accessories



## 50kN Clamped Boss Load Ring

Code: 78-0860



## 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](#)



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

Code: [78-0064](#)

## Spares/Consumables



## Spare Dial Indicator for Load Rings

Code: [78-5461](#)

## Alternatives





## 50kN Clamped Boss Load Ring

Code: [78-0860](#)



## Clamped Boss Load Ring - 10.0 kN

Code: [78-0460](#)



## Clamped Boss Load Ring - 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](#)



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

Code: [78-0064](#)



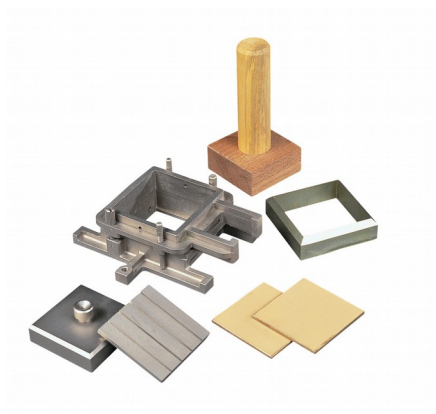
## Dial Gauge

Code: [83-5456](#)

Product Group: [Dial Gauges, Measurement of Horizontal and Vertical Movement](#)

## Specification

Diameter mm	57
Travel mm	10
Grad. Mm	0.01
Scale	RH
Anvil	Ball
Back type	A



## 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

## Spares/Consumables



### 2.42" Diameter Porous Stone

Code: [26-2223/10](#)



### Porous Plate 2.5 Inch Diameter

Code: [26-2213/10](#)

## Alternatives



### 2.42" Diameter Porous Stone

Code: [26-2223/10](#)



### Porous Plate 2.5 Inch Diameter

Code: [26-2213/10](#)





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

Code: [81-0588](#)

Product Group: [Determination of the Shape Index, Linear Shrinkage, Miscellaneous Laboratory Hardware](#)

Vernier callipers 200 x 0.002mm. Graduated in mm and inches.

Gives four types of readings: inside, outside, depth and step. Dual reading scale (metric and inch) with 14° bevelled vernier scale for reduced parallax reading error and knurled locking nut. Manufactured from hardened stainless steel for rigidity. Satin finish.

Conforms to DIN 862.

## Standards

EN 933-4, BS 1377



## Vernier Caliper (LCD) Range 0 to 200mm X 0.01mm

Code: [81-0590](#)

Product Group: [Determination of the Shape Index,](#)  
[Miscellaneous Laboratory Hardware](#)

Dual measuring range highly accurate vernier caliper 0 to 200mm x 0.01mm (8 inch x 0.001 inch) to comply with bs 887 and bs 6365. Complete with liquid crystal display.

## Standards

EN 933-4

## Further Information

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

## Accessories



### Vibrating Hammer

Code: [47-0455/01](#)

## Alternatives



### Vibrating Hammer

Code: [47-0455/01](#)



## 425 Litre Drying Oven

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

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

This oven is designed for drying large quantities of soils and aggregate samples and maintains the temperature in accordance with BS EN and ASTM requirements.

The oven is constructed of mild steel with a powder coated exterior and an aluminium coated steel chamber which is both durable and corrosion resistant.

The control system comprises of a microprocessor digital controller with overheat safety system. They also include main switch with indicator and heat and overheat indicators.

The temperature range is 40-180°C.

## Standards

EN 12697-32, EN 13280-4, BS 598-104, BS 1377

## Specification

Capacity	425 litres
External Dimensions (h x w x d)	970 x 1410 x 810 mm
Internal Dimensions (h x w x d)	760 x 920 x 640 mm
Fluctuation	± 0.75°C
Rated power heater elements	2000 W
Shelves supplied	4
Shelf positions	5
Weight	120 kg

## Alternatives



## 100 Litre Drying Oven

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



## 150 Litre Drying Oven

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

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## 225 Litre Drying Oven

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

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## 50 Litre Drying Oven

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





## 225 Litre Drying Oven

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

Product Group: [Percentage Refusal Density \(PRD\)](#),  
[Oven Drying Method](#), [Oven Drying Method](#), [Oven Drying Method](#)

## Standards

EN 12697-32, EN 13280-4, BS 598-104, BS 1377

## Specification

Capacity	225 litres
External Dimensions (l x w x h)	540 x 1040 x 940
Internal Dimensions (l x w x h)	440 x 920 x 600
Fluctuation	± 0.75°C
Rated power heater elements	2000 W
Shelves supplied	3
Shelf positions	4
Weight	80 kg

## Alternatives



## 100 Litre Drying Oven

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



## 150 Litre Drying Oven

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



## 425 Litre Drying Oven

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



## 50 Litre Drying Oven

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



## 30 L Heating Bath with Led Display Cover

Code: 45-6550/01

Product Group: Accessories for manual and automatic compaction

## Standards

BS 2000-49, EN 1426, EN 13179-2, ASTM D5, AASHTO T49, IP 49

## Further Information

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

## Accessories



## Breaking Head (Marshall)

Code: 45-6850

## Alternatives



## Breaking Head (Marshall)

Code: 45-6850



## Hotplate

Code: 78-2950/01

Product Group: Hotplate

## Further Information

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

## Specification

Construction	Cast-iron top and base ventilated sheet-steel body
Nominal diameter	200 mm
Maximum temperature	500°C
Rated power	2000 W
Weight	5 kg



## Vacuum Pump

Code: [82-7720/01](#)

Product Group: [Vacuum Pumps](#)

## Further Information

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

## Specification

Type	Single stage
Pump	Oil filled rotary
Ultimate vacuum	Better than 0.1 mbar
Displacement	42 litres per minute (2.4 m <sup>3</sup> /hour)
Electrical supply	220 – 240 V AC, 50 - 60 Hz, 1 ph
Weight	12.7 kg



## Rubber Tubing

Code: [81-0375](#)

Product Group: [Vacuum Pumps, Rubber Tubing](#)

## Further Information

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

## Specification

Bore	6.5 mm
Wall thickness	5.0 mm
Sold by	Metre



## Vacuum Oil

Code: [82-7720/10](#)

Product Group: [Vacuum Pumps](#)

4 litres

## Further Information

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



## Semi-Automatic Penetrometer

Code: [46-5295/01](#)

Product Group: [Penetration Test](#)

As 46-5290 but incorporates Digital Automatic Controller which releases the needle assembly. The time set is displayed by a bright, easy to read display.

## Standards

BS 2000-49, EN 1426, EN 13179-2, ASTM D5, AASHTO T49, IP 49

## Further Information

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

## Accessories



### Constant Temperature Bath 21 - 56°C

Code: [46-5500/01](#)



### Penetration Needle

Code: [46-5340/C](#)



### Penetration Needle

Code: [46-5360/10](#)





## Penetration Tin

Code: [46-5861](#)



## Transfer Dish

Code: [46-5800](#)

## Spares/Consumables



## ASTM (Non-Certified) Penetration Needle

Code: [46-5290/10](#)



## Penetration Needle

Code: [46-5360/10](#)

Product Group: [Penetration Test](#)

Hardened steel.

## Standards

BS 2000-49, EN 1426, EN 13179-2, ASTM D5, AASHTO T49, IP 49

## Further Information

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



## Transfer Dish

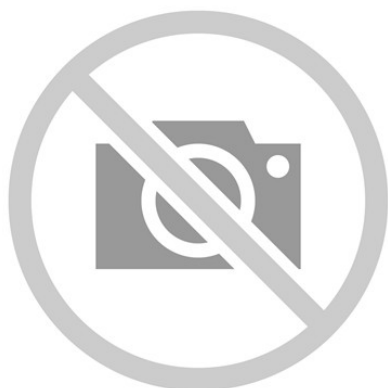
Code: [46-5800](#)

Product Group: [Bitumen Penetration Test](#), [Asphalt Penetrometer](#), [Penetration Test](#)

For use with ELE Penetrometer 46-5295.

## Standards

BS 2000-49, EN 1426, EN 13179-2, ASTM D5, AASHTO T49, IP 49



## Penetration Tin

Code: [46-5860](#)

Product Group: [Penetration Test](#)

For penetrations between 200 and 350,  
approximately 70 mm diameter x 45 mm deep.

## Standards

BS 2000-49, EN 1426, EN 13179-2, ASTM D5, AASHTO T49, IP 49

## Further Information

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



## Penetration Tin

Code: [46-5861](#)

Product Group: [Penetration Test](#)

For penetrations below 200, approximately 55 mm diameter x 35 mm deep.

## Standards

BS 2000-49, EN 1426, EN 13179-2, ASTM D5, AASHTO T49, IP 49

## Further Information

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



## Volumetric Flask - 1000 ml

Code: [82-1060](#)

Product Group: [Funnels and Flasks](#)

Soda glass, stoppered to BS ISO 1042 Class B.

## Further Information

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