



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

This wishlist was generated on 05/05/2017, and contains the following Products:

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24-0540

**Cone Penetrometer. Complete with Stainless Steel Test Cone.**

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24-0546

**Test Gauge for Checking Condition of Cone Point.**

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24-0548

**Penetration Test Cup.**

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24-9000

**BS Standard Compaction Mould 1000Cm Capacity.**

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24-9002

**Standard Compaction Rammer 2.5Kg BS1377-1975**

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25-3605

**Unconfined Compression Tester, Hand-Operated**

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25-0580

**Constant Head Permeability Cell 75mm Diameter Specimen.**

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25-0591

**Manometer Tubes & Stand.**

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25-0593

**Constant Level Tank.**

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42-4580

**Tamping Rod 8mm Dia X 300mm.**

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81-0200

**Aluminium Scoop Small**

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81-0518

**Timer Clock**

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82-0380

**Measuring Cylinder - Glass 100 ml**

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82-1060

**Volumetric Flask - 1000 ml**

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82-2660

**Funnel**

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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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26-2197

**Shear Box Assembly 100mm Sq.**

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26-2201

**Specimen Cutter 100mmsq.**

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26-2205

**Specimen Extrusion Tool 100 mm sq**

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78-0160

**Clamped Boss Load Ring - 3.0 kN**

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83-5456

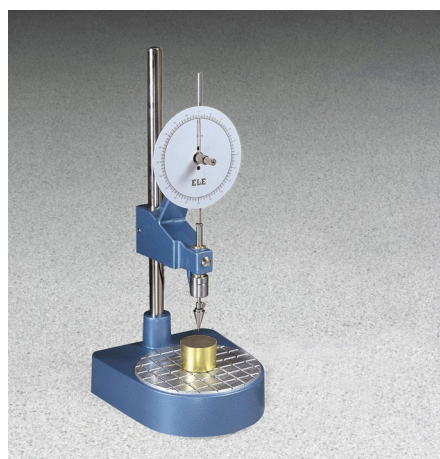
**Dial Gauge**

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26-2197/10

**Porous Plate 100mm Sq.**

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## Cone Penetrometer. Complete with Stainless Steel Test Cone.

Code: [24-0540](#)

Product Group: [Cone Penetrometer Method, Cone Penetrometer](#)

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

## Standards

BS 1377-2

## Specification

Dial Indicator	150 mm diameter graduated in 400 x 0.1 mm divisions, indicator point incorporates friction/gear system
Height Adjustment	Rapid, using integral clamping mechanism
Cone release	Manual
Cone	1 x 30°, 35 mm test cone included
Base	Cast aluminium, adjustable levelling feet
Weight kg	7

## Accessories



### Penetration Test Cup.

Code: [24-0548](#)



## Test Gauge for Checking Condition of Cone Point.

Code: [24-0546](#)

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## Spares/Consumables



## Penetration Test Cone

Code: [24-0544](#)

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## Alternatives



## Semi-Automatic Cone Penetrometer

Code: [24-0545/01](#)



## Test Gauge for Checking Condition of Cone Point.

Code: [24-0546](#)

Product Group: [Cone Penetrometer Method](#), [Cone Penetrometer](#)

55 mm diameter by 40 mm deep, with the rim parallel to the flat base.

## Standards

BS 1377-2



## Penetration Test Cup.

Code: [24-0548](#)

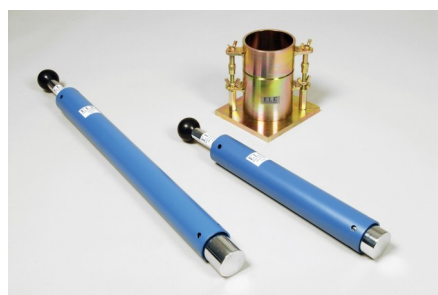
Product Group: [Cone Penetrometer](#), [Cone Penetrometer Method](#)

Brass construction, 55mm dia x 4mm depth to fit BS1377

## Standards

BS 1377-2





## BS Standard Compaction Mould 1000Cm Capacity.

Code: 24-9000

Product Group: BS/EN compaction test 2.5kg,  
Accessories for BS compaction and CBR

Plated steel standard compaction mould to BS 1377, comprising of a collar mould body and base plate with quick release wing nuts for easy dismantling.

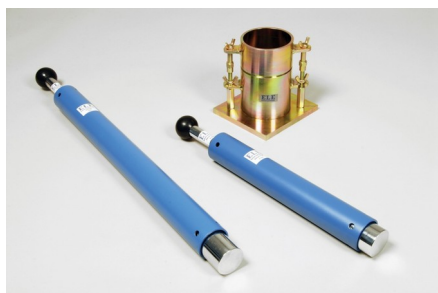
## Standards

BS 1377-4, BS 1924-2

## Specification

Mould volume	1 litre
Dimensions	105 mm dia x 115.4 mm high
Construction	All steel, threaded studs with wing nuts, plated.
Weight	5.5 kg





## Standard Compaction Rammer 2.5Kg BS1377-1975

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](#)



## Unconfined Compression Tester, Hand-Operated

Code: 25-3605

Product Group: Unconfined Compression Tester,  
Hand-Operated

6.6 kN 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).

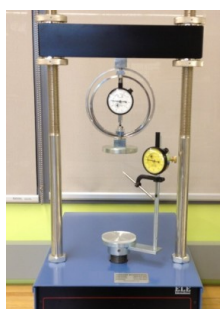
### Accessories



## Unconfined Compression Test Accessory Set, English

Code: [25-3997](#)

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## Unconfined Compression Test Accessory Set, Metric

Code: [25-3998](#)

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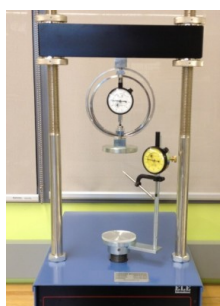
### Alternatives



## Unconfined Compression Test Accessory Set, English

Code: [25-3997](#)

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## Unconfined Compression Test Accessory Set, Metric

Code: [25-3998](#)



## 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



## Manometer Tubes & Stand.

Code: [25-0591](#)

Product Group: [Constant Head Apparatus](#)

Comprising three glass tubes of constant bore, metre scale and connecting tubing for cell pressure take-off points, all mounted on a free-standing panel. Comprising three glass tubes of constant bore, metre scale and connecting tubing for cell pressure take-off points, all mounted on a free-standing panel.

## Standards

BS 1377-5



## Constant Level Tank.

Code: [25-0593](#)

Product Group: [Constant Head Apparatus](#)

Manufactured from transparent plastic with attachment for wall mounting. The inlet, outlet and overflow pipes are fitted to the base of the tank and can be adjusted for height within the tank. Supplied complete with connecting tubing.

## Standards

BS 1377-5



## Tamping Rod 8mm Dia X 300mm.

Code: 42-4580

Product Group: Aggregate Crushing Value (ACV) and  
Ten Percent Fines Value (TFV)

Spare: 8mm diameter x 300mm long with rounded  
end.

## Further Information

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





## Aluminium Scoop Small

Code: [81-0200](#)

Product Group: [Scoops and Shovels](#)

82 x 127 x 50 mm, cast aluminium with handle

## Further Information

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



## Timer Clock

Code: [81-0518](#)

Product Group: [Rice Test Vibrator](#), [Watches and Clocks](#)

Accessory

## Standards

EN 12697-5

## Further Information

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



## Measuring Cylinder - Glass 100 ml

Code: [82-0380](#)

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

Soda glass, spouted, BS EN 4788.

## 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\*\***



## Funnel

Code: [82-2660](#)

Product Group: [Funnels and Flasks](#)

Polythene, 200 mm diameter.

## Further Information

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



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

Code: [25-0440](#)

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

## Spares/Consumables



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

Code: [88-4210](#)



## Vertical Dial Indicator, English

Code: [25-0445](#)



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

Code: 26-2114/01

Product Group: [Direct/Residual Shear Apparatus](#),  
[Direct/Residual Shear Apparatus](#)

- Microprocessor control
- Large on-board LCD screen display
- Direct entry via touch sensitive keyboard
- Rapid approach and return to start datum
- Fully variable speed, 0.00001 to 9.99999 mm/minute
- Accepts specimens up to 100 mm square

The ELE Direct Shear Apparatus accepts specimens 60 mm, 100 mm square or 2.5 inches in diameter. The use of a microprocessor controlled drive system and keyboard entry gives the apparatus a wide range of features that include pause and speed reset during test, RS 232C interface, operator programming of speed and control functions, self test diagnostics and many other features. A return to start datum provides a positive means of reversing the shearbox when either preparing for a new test or continuing with residual testing procedures.

Safety forward/reverse travel limit switches are fitted as standard and monitored through the electronics system control.

The electronics are housed in a modern moulded shroud, which includes a large LCD display and keyboard entry. The apparatus is enclosed in a robustly constructed case, has been designed for floor mounting and is supplied complete with carriage, loading hanger and 10:1 lever loading device.

## Standards

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

## Further Information

for 220 - 240 V AC, 50 - 60 Hz, 1 ph.

## Specification

Sample Size

Accepts either 2.42", 2.5" diam.; 60 mm square samples using accessory shear box assemblies, not included.

Speed Range

Variable in either English or Metric units



# Product Sheet

www.ele.com  
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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

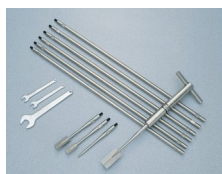
Code: [25-0445](#)

## 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](#)



## 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](#)



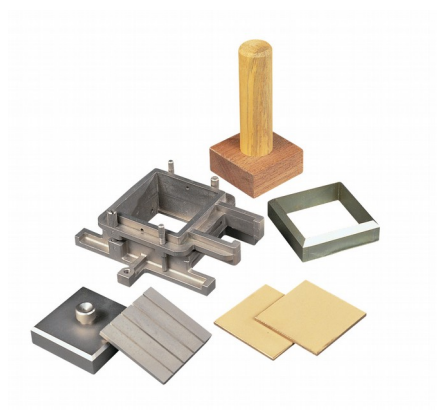
## Slotted Surcharge Weight 2 kg.

Code: [26-2141](#)



## Slotted Surcharge Weight 5 kg.

Code: [26-2139](#)



## Shear Box Assembly 100mm Sq.

Code: [26-2197](#)

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

- Manufactured from corrosion resistant materials
- Sample size 100 x 100mm 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

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	100 x 100 mm
Specimen thickness	25 mm
Weight kg	5.2
Relevant standard	BS 1377

## Accessories



## Shear Box Assembly 60mm Sq.

Code: [26-2181](#)

## Spares/Consumables



## Specimen Cutter 100mmsq.

Code: 26-2201

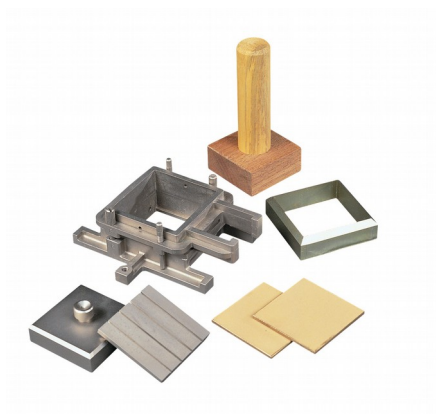
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### Alternatives



## Shear Box Assembly 60mm Sq.

Code: 26-2181



## Specimen Cutter 100mmsq.

Code: [26-2201](#)

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

## Standards

ASTM D3080, AASHTO T236

## Accessories



## Shear Box Assembly 100mm Sq.

Code: [26-2197](#)

## Spares/Consumables



## Specimen Cutter 2.5 Inch Diameter.

Code: [26-2217](#)



## Specimen Cutter 60mm Sq.

Code: [26-2185](#)

## Alternatives



## Specimen Cutter 2.5 Inch Diameter.

Code: [26-2217](#)

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## Specimen Cutter 60mm Sq.

Code: [26-2185](#)



## Specimen Extrusion Tool 100 mm sq

Code: [26-2205](#)

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

### Standards

ASTM D3080, AASHTO T236



## Clamped Boss Load Ring - 3.0 kN

Code: 78-0160

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

## Standards

BS 1377, ASTM D3080

## Specification

Capacity: kN, kgf, lbf	3.0, 300, 650
Typical Design sensitivity: N/div, kgf/div, lbf/div	2.0, 0.20, 0.43
Overall height mm	248
Approx weight kg	3.3
Capacity - lbf	1,000
Capacity - kN	3
Capacity - kgf	300
Typical Design Sensitivity - lbf/div	0.43
Typical Design Sensitivity - kN/div	2
Typical Design Sensitivity - Kgf/div	0.2
Overall Height	9.76" (248 mm)
Approx Weight	7.3 lbs.(3.3 kg)

## Accessories



## 50kN Clamped Boss Load Ring

Code: 78-0860



## Clamped Boss Load Ring - 10.0 kN

Code: 78-0460





## Clamped Boss Load Ring - 2.0 kN

Code: [78-0060](#)



## Clamped Boss Load Ring - 28.0 kN

Code: [78-0760](#)



## Clamped Boss Load Ring - 4.5 kN

Code: [78-0260](#)

## Spares/Consumables



## Spare Dial Indicator for Load Rings

Code: [78-5461](#)

## Alternatives



## 50kN Clamped Boss Load Ring

Code: [78-0860](#)



## Clamped Boss Load Ring - 10.0 kN

Code: [78-0460](#)



## Clamped Boss Load Ring - 2.0 kN

Code: [78-0060](#)



## Clamped Boss Load Ring - 28.0 kN

Code: [78-0760](#)



## Clamped Boss Load Ring - 4.5 kN

Code: [78-0260](#)



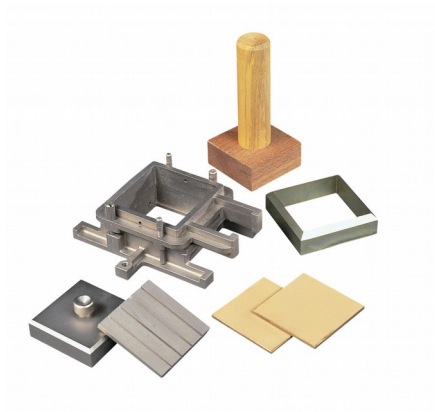
## Dial Gauge

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 100mm Sq.

Code: [26-2197/10](#)

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

## Standards

ASTM D3080, AASHTO T236