



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

This wishlist was generated on 22/07/2016, and contains the following Products:

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26-2114/02

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

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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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25-0440

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

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88-4110

**Mechanical Dial Indicator - 25 mm Range Clockwise Movement**

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25-0535

**Weight Set A**

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27-1500/02

**GDU 8 Channel Data Acquisition Unit 100-120 V 60 Hz**

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27-1790

**DS7.1 Direct/Residual Shear Software**

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27-1689

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

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27-1697

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

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27-1583

**S-Type Load Cell 2,000 lb Capacity**

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

Code: 26-2114/02

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

## Further Information

for 110 - 120 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

Shear Force  
Vertical Load

Dimensions

Weight

0.000001"  
(0.00001 mm) to 0.399999"  
(9.99999 mm) per minute.  
1,000 lbf. (4.5 kN) maximum.  
2,200 lbf. (1,000 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).

## Spares/Consumables



### Dial Indicator - 1.0" Range

Code: [88-4100](#)



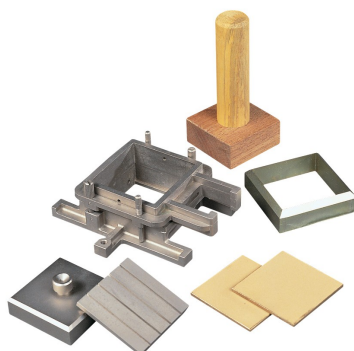
### Electronic Digital Indicator, 0.600"/15 mm range

Code: [88-4210](#)



### Vertical Dial Indicator, English

Code: [25-0445](#)



## 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

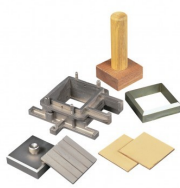
Specimen area	60 x 60 mm
Specimen thickness	25 mm
Weight kg	2
Relevant standard	BS 1377

## Spares/Consumables



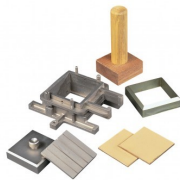
## Porous Plate 60mm Sq.

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



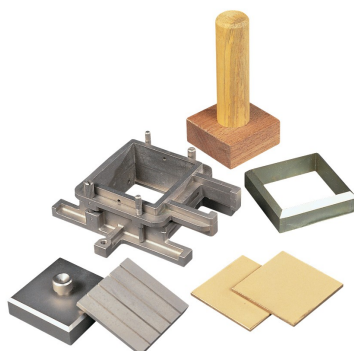
## Specimen Cutter 60mm Sq.

Code: 26-2185



## Specimen Extrusion Tool 60 mm sq.

Code: 26-2189



## Specimen Cutter 60mm Sq.

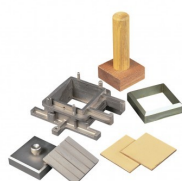
Code: [26-2185](#)

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

## Standards

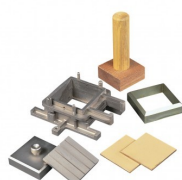
ASTM D3080, AASHTO T236

## Spares/Consumables



## Specimen Cutter 100mmsq.

Code: [26-2201](#)



## Specimen Cutter 2.5 Inch Diameter.

Code: [26-2217](#)





## 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](#)





## Mechanical Dial Indicator - 25 mm Range Clockwise Movement

Code: [88-4110](#)

Product Group: [Mechanical Dial Indicators, CBR Loading Press, Hand-Operated, Tripod Attachment, CBR-Test 50 Machine, Direct/Residual Shear Apparatus](#)

### Specification

Range	25 mm
Divisions	0.01 mm
Movement	Clockwise
Face Diameter	57 mm
Contact Point	Immediate response, up or down; tip movement magnified to indicator hand with minimal friction; 3/16" (5 mm) radius x 1/4" (6 mm) l.
Dials	With continuous graduations and revolution counters.
Measure Movement	Measure movement towards dial case; pointer at zero with stem extended.
Weight	Net 12 oz. (340 g).

### Spares/Consumables



## Dial Indicator - 1.0" Range

Code: [88-4100](#)



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

Code: [88-4210](#)



## Weight Set A

Code: [25-0535](#)

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

Includes: four 1 kg, five 4 kg, and four 16 kg weights.



## GDU 8 Channel Data Acquisition Unit 100-120 V 60 Hz

Code: 27-1500/02

Product Group: [Data Logging with the GDU, Geotechnical Data Acquisition Unit \(GDU\)](#)

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

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

- For performing CBR, Consolidation, Direct/Residual Shear and Total & Effective Stress Triaxial tests
- 8 Channels expandable to 32 for performing multiple, concurrent tests for cost savings
- Independent signal conditioning on each channel to maintain data accuracy
- Field-upgradeable software, meaning no downtime for future software and functionality upgrades
- Extended warranty

## Specification

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



## DS7.1 Direct/Residual Shear Software

Code: [27-1790](#)

Product Group: [N/A](#)

### Standards

ASTM D3080, AASHTO T236



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

Code: [27-1689](#)

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

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

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

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

## Specification

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

## Spares/Consumables



## CBR Displacement Transducer

Code: [27-1706](#)



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

Code: [27-1697](#)

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

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

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

## Specification

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

## Spares/Consumables



### CBR Displacement Transducer

Code: [27-1706](#)



## S-Type Load Cell 2,000 lb Capacity

Code: [27-1583](#)

Product Group: [S-Type Load Cell](#)

(8.9 kN) capacity. Net wt. 1 lb. (0.45 kg).

### Specification

Excitation	10vDC.
Output	3.0 mV/V minimum.
Non-Linearity	0.03% full scale output.
Hysteresis	0.02% full scale output.
Bridge Resistance	350 ohms nominal.
Overload Capacity	150%.
Mounting Hardware	Includes all necessary hardware for mounting to the Tritest 50 and Versa-Loader load frames.