

## Direct/Residual Shear Apparatus

BS 1377-7, EN DD ENV1997-2, ASTM D3080

- **Microprocessor control**
- **Large on-board LED 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 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 provides the apparatus with a wide range of features which include pause and speed reset during test, RS 232C interface for computer control, 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. The apparatus is enclosed in a robustly constructed case and has been designed for floor mounting. Supplied complete with carriage, loading hanger and 10:1 lever loading device.

### Specification

Dimensions (l x w x h) (hanger not fitted)	320 x 1135 x 1260 mm
Max specimen size	100 mm
Speed range	0.00001 to 9.99999 mm
Fast forward / reverse	10 mm per minute
Weight	70 kg

### Ordering Information

**26-2114** series Digital Direct/Residual Shear Apparatus

Supplied *without* shearbox, load ring, vertical and horizontal dial gauges.

**26-2114/01** for 220-240 V AC, 50-60 Hz, 1 ph

**26-2114/02** for 110-120 V AC, 50-60 Hz, 1 ph

### Accessories

**26-2132** 50 kg Set of Weights



### Shearbox Assemblies

Model no	26-2181	26-2197	26-2213
Specimen area	60 x 60 mm	100 x 100 mm	2.5 inch dia
Specimen thickness	25 mm	25 mm	1 inch
Weight	2 kg	5.2 kg	2.8 kg
Standard	BS 1377	BS 1377	ASTM D3080

### Measurement of Load (shear stress)

#### Load rings, compression only

Model no	Capacity
78-0060	2 kN
78-0160	3 kN
78-0260	4.5 kN

### Vertical and Horizontal Movement

Vertical Dial Gauge see 25-0440

Horizontal Dial Gauge see 83-5456

### Computer Controlled Recording and Analysis

ELE offer hardware and software packages designed to record and analyse test results. Presentation of results is in test report format. The geotechnical engineer has total control over all areas of analysis where engineering judgement is required.

Hardware and software are described in the "27" section of the 10<sup>th</sup> edition catalogue.

**ELE International**  
 Chartmoor Road, Chartwell Business Park,  
 Leighton Buzzard, Beds, LU7 4WG, England  
 Tel: +44 (0) 1525 249 213  
 Fax: +44 (0) 1525 249 249  
 e-mail: [ele@eleint.co.uk](mailto:ele@eleint.co.uk)  
<http://www.ele.com>

**Distributor:**

**ELE International**  
 PO Box 389  
 Loveland, CO 80539-0389 U.S.A.  
 Tel: +1 (970) 663-9780  
 Fax: +1 (970) 663-9781  
 e-mail: [soiltest@eleusa.com](mailto:soiltest@eleusa.com)  
<http://www.eleusa.com>