



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	between 0.000001" (0.00001 mm) to 0.399999" (9.99999 mm) per minute.
Vertical Load	1,100 lbf. (5.0 kN) maximum. 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	130 kg

Accessories



2.42" Diameter Shear Box Assembly (California Type)

Code: [26-2223](#)



35mm Stainless Steel Consolidation Cell

Code: [25-0444](#)



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](#)



Counter Balance Kit Complying With ASTM D3080

Code: [26-2114/10](#)



Dial Gauge 10mm Travel X 0.002mm Divisions.

Code: [25-0440](#)



Dial Indicator - 1.0" Range

Code: [88-4100](#)



Digital Proving Ring, 1,000 lbs (4.5 kN)

Code: [78-0264](#)



Digital Proving Ring, 450 lbs (2.0 kN)

Code: 78-0064



Electronic Digital Indicator, 0.600"/15 mm range

Code: 88-4210



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

Code: 27-1697



Laboratory Vane Apparatus with 4 Springs and 12.7mm Vane; Hand Operated.

Code: 26-2270



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 Dial Indicator, English

Code: [25-0445](#)



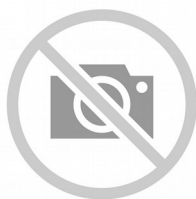
Vertical Displacement Transducer Assembly 15mm Travel with 5 Pin Din Plug Bracket for Shear Box

Code: [27-1689](#)



Weight Set A

Code: [25-0535](#)



Weight Set B

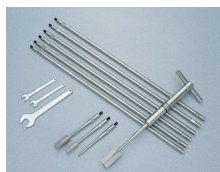
Code: [25-0537](#)

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](#)



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

Code: 26-2261