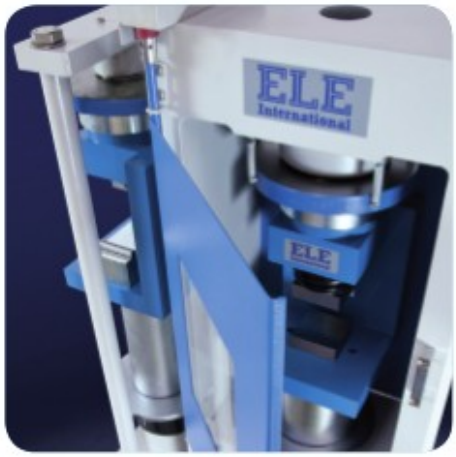
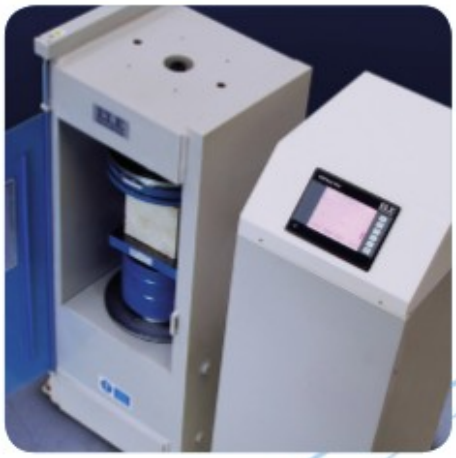


ELE International



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

www.ele.com

Contents

This wishlist was generated on 24/05/2016, and contains the following Products:

25-0402
Consolidation Frame One Dimensional Consolidation Incremental Loading Device.

25-0429
Floor Mounting Stand.

25-0408
Set of Weights 100Kg Total Weight.

25-0455
Consolidation Cell Complete 50mm Diameter Sample.

27-1649
Consolidation Transducer Assembly 15mm Travel Fitted with 5 Pin Din Plug.

27-1500/01
GDU 8 Channel Data Acquisition Unit 220-240 V 50/60 Hz, 1 Ph.

27-1773
DS7.2 One-Dimensional Consolidation Program for Windows 7, 32/64 bit

24-9150/01
Cbr-Test 50 Machine 50kN Capacity BS and ASTM Supplied with Stabilising Bar.

27-1559
50kN S-type Load Cell

27-1705
CBR Penetration Transducer 50mm Travel Fitted with 5 Pin Din Plug.

24-9183
Cbr Penetration Piston (Adjustable).

27-1300/01
DSU Electronic Readout and Control System 220 - 240 V AC 50/60 Hz

27-1798
DS7.2 California Bearing Ratio (CBR) Penetration Program for Windows 7, 32/64 bit

24-4650

Contents

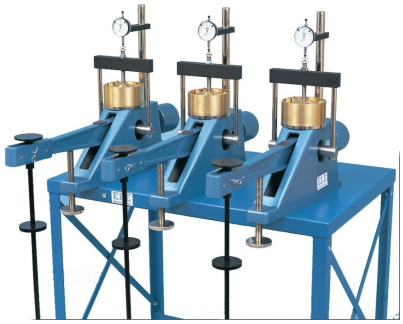
Soil Hydrometer Type 151H ASTM D422 Graduated 0.995 to 1.038 Specific Gravity.

24-4125/01
High Speed Stirrer Complete with Paddle Cup & Baffle. 220-240V 50/60Hz 1Ph.

46-4605
BS/EN Ring and Ball Apparatus

46-5290
Standard Penetrometer

42-4000
Aggregate Impact Value Apparatus Complete with 16mm Dia X 600mm Long Rod



Consolidation Frame One Dimensional Consolidation Incremental Loading Device.

Code: 25-0402

Product Group: Consolidation Apparatus, Table Top Consolidation Apparatus

• High capacity - 8800 kPa on 50 mm diameter specimens using 11:1 beam ratio
• Triple beam ratio, 9:1, 10:1, 11:1
• Compact unit ensures maximum space saving

The ELE Oedometer is rigidly constructed to ensure minimum frame distortion. The frame is designed to load the specimen through a yoke assembly and one of three alternative beam ratios. The beam is fitted with a counterbalance weight and beam support jack. The cell platform will accept the complete range of ELE consolidation cells and is fitted with a central spigot to ensure accurate centring of the cell under the loading yoke. Dimensions without hanger 711 x 203 x 508 mm (l x w x h). Weight 22 kg.

Standards

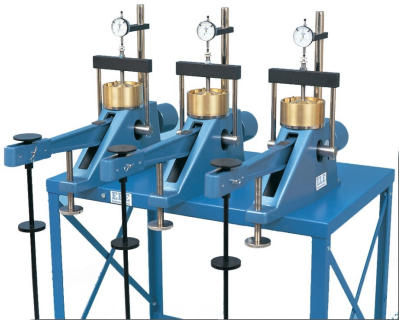
BS 1377, EN 1997-2, ASTM D2435, ASTM D4546, AASHTO T216

Further Information

Supplied without dial gauge and weights.

Specification

Load Capacity	48 tons/sq. ft. (5,14 8 kPa) on 2.5” (63 mm) diam. samples.
Loading Beam	Cast aluminum; counterbalanced; 9:1,10:1 and 11 :1 ratios.
Frame	Cast aluminum; integral beam support jack; plated steel and platform.
Dimensions	8” w. x 28” d. x 20” h. (203 x 711 x 508 mm), excluding weight hanger.
Weight	Net 30 lbs. (13 .6 kg); Shpg. 40 lbs. (18.1 kg).



Floor Mounting Stand.

Code: 25-0429

Product Group: Consolidation Apparatus, Table Top Consolidation Apparatus

A versatile modular steel stand. Holes in the shelf are provided for
securing up to three EL25-0402 Consolidation Frames. Dimensions 610 x 915 x 865 mm (l x w x h).

Standards

ASTM D2435, ASTM D4546, AASHTO T216

Set of Weights 100Kg Total Weight.

Code: 25-0408
Product Group: Consolidation Apparatus

9 x 10 kg, 1 x 5 kg, 2 x 2 kg, 1 x 1 kg.

Standards

ASTM D2435, ASTM D4546, AASHTO T216

Consolidation Cell Complete 50mm Diameter Sample.

Code: 25-0455

Product Group: High pressure application consolidation cells and accessories, Pneumatic Consolidation Apparatus, Fixed Ring Consolidation, Table Top Consolidation Apparatus

Specification

Application	High pressure
Specimen Dia	50 mm
Specimen area	1963 mm²
Beam ratio	10:1
Load kg	1
Stress	50 kPa
Typical max stress	8 MPa
Stress for 1 kg m²	50 kPa
Application	High Pressure
Specimen Diameter	50 mm
Specimen Area	1963 mm²
Beam Ratio	10:01
Load	1 kg
Stress	50 kPa
Typical Maximum Stress	8 MPa
Stress for 1 kg	50 kPa

Spares/Consumables

50mm Dia Upper and Lower Porous Stones for Use on EL25-0455 Series Cell.

Code: 25-0455/13

Cutting Ring 50mm Cell.

Code: 25-0458

Consolidation Transducer Assembly 15mm Travel Fitted with 5 Pin Din Plug.

Code: 27-1649

Product Group: Displacement Transducers, Vertical settlement measurement, Displacement Measurement

Fitted with 5 pin DIN plug.

Specification

Construction	Fully encapsulated electronics, sealed in a stainless steel case
Excitation	11 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).

GDU 8 Channel Data Acquisition Unit 220-240 V 50/60 Hz, 1 Ph.

Code: 27-1500/01

Product Group: Automatic Data Acquisition, Automatic data acquisition, Automatic Data Acquisition, Data Logging with the GDU, Geotechnical Data Acquisition Unit (GDU), Automatic data acquisition

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	± 5 volts to ± 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).

DS7.2 One-Dimensional Consolidation Program for Windows 7, 32/64 bit

Code: 27-1773

Product Group: DS7, DS7.2 One-Dimensional Consolidation Software

DS7.1 Consolidation Software provides all basic functions needed to record and analyse consolidation test data. Options are available for monitoring settlement on a log time or square-root time basis. Printouts and graphical plots are available for all stages including Mv and Cv moisture content, voids ratio plots, and initial sample conditions.

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

Code: 24-9150/01

Product Group: 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

50kN S-type Load Cell

Code: 27-1559

Product Group: Load Measurement, Force measurement, Electronic Instrumentation

Maximum working capacity of 50 kN and excitation 10 V ac/dc with an output of 2.7 mV/V nominal. Aluminium alloy and stainless steel construction with IP65 environmental protection.

Standards

EN 12697-34

Further Information

NOT AVAILABLE FOR SALE IN THE USA

CBR Penetration Transducer 50mm Travel Fitted with 5 Pin Din Plug.

Code: 27-1705

Product Group: Penetration Measurement, Penetration 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 accuratevdisplacement 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	14 V DC
Connector	5-pin DIN type
Mounting bracket	Included as standard
Weight kg	0.45

Cbr Penetration Piston (Adjustable).

Code: 24-9183

Product Group: In-situ CBR, Conversion of In-situ to Laboratory CBR, Penetration Measurement

As 24-9182 but with a coarse stem adjustment. This piston is particularly useful for in-situ testing.

DSU Electronic Readout and Control System 220 - 240 V AC 50/60 Hz

Code: 27-1300/01

Product Group: Electronic Instrumentation, Data Logging with the DSU, Data Logging with the DSU

· Download the full brochure here [/../../../Page/the-new-dsu]

· 4 channel automatic control and data-logging unit

· Automatic, dual-frame control

· Performs CBR, Marshall, Unconfined Compression, Direct and Residual Shear, One-Dimensional Consolidation, Unconfined Undrained, Consolidated Drained and Unconsolidated Drained tests

· LAN connection - software can be running anywhere on your server

· Never lose data from power fails - 2 gigabytes of non-volatile memory

· Extended warranty

The Data System Unit (DSU) is a versatile instrument designed to accomodate the general logging requirements of geotechnical and materials testing engineers. Its intelligent interface allows the user to work with a range of different sensors.

Further Information

Become a member of the ELE International web site, add this new product to a wishlist to receive a quote! Click here [/../../../Login]

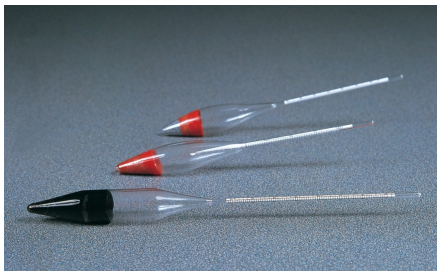
Please note that this product is not yet available in the USA, we will let you know as soon as it is ready!

DS7.2 California Bearing Ratio (CBR) Penetration Program for Windows 7, 32/64 bit

Code: 27-1798

Product Group: DS7, DS7.2 CBR Penetration Software, Automatic data acquisition

This program provides the classical data for the CBR test. Load and penetration are monitored simultaneously. The program tabulates the results and provides a graphical presentation report.



Soil Hydrometer Type 151H ASTM D422 Graduated 0.995 to 1.038 Specific Gravity.

Code: 24-4650

Product Group: ASTM Soil Hydrometers, Soil Hydrometers

Graduated 0.995 to 1.038 g/ml.

Standards

ASTM D422, ASTM E100, AASHTO T88

Specification

Construction	Molded, seamless.
Scale	Bouyoucos; double scale.
Calibration	At 68°F.
Weight	Net 4 oz. (113 g).

High Speed Stirrer Complete with Paddle Cup & Baffle. 220-240V 50/60Hz 1Ph.

Code: 24-4125/01

Product Group: Mechanical Analysis Stirrer

Compact bench top stirrer used for dispersing soil samples in water. Supplied complete with mixing paddle and dispersion cup with baffle. Beaker position maintained by column retainer.

Standards

BS 1377, ASTM D422, AASHTO T88

Spares/Consumables

Mixing Paddle for 24-4125 Series High Speed Stirrer

Code: 24-4125/10

Soil Dispersion Cup & Baffle.

Code: 24-4125/11

BS/EN Ring and Ball Apparatus

Code: 46-4605
Product Group: Ring and Ball Apparatus

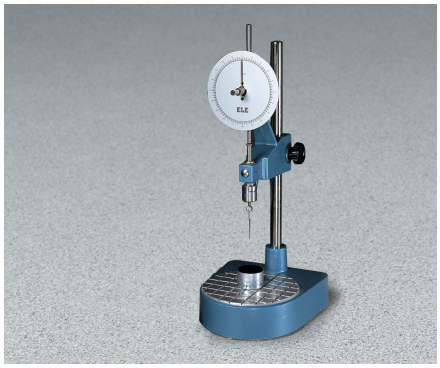
With 2 shouldered pattern rings, 2 ball-centring guides and 2 balls. The apparatus has a support frame and is retained in a heat resistant container.

Standards

EN 1427, BS 2000-58

Further Information

NOT AVAILABLE FOR SALE IN THE USA



Standard Penetrometer

Code: 46-5290

Product Group: Penetration Test, Bitumen Penetration Test, Asphalt Penetrometer

Penetration readings are quickly taken using this simple to operate apparatus. The 150 mm diameter dial is graduated in 400 divisions of 0.1 mm. Supplied without needles and penetration tins.

Standards

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

Further Information

Model shown with sample container; not included, order separately.

Specification

Dial Indicator	6” (150 mm) diam.; 400 mm x 0.1 mm.
Plunger Weight	47.5 g.
Needle	ASTM Style (non-certified); one included.
Plunger Release	Manual mechanism.
Weight	Net 18 lbs. (8.2 kg).

Spares/Consumables

ASTM (Non-Certified) Penetration Needle

Code: 46-5290/10

Aggregate Impact Value Apparatus Complete with 16mm Dia X 600mm Long Rod

Code: 42-4000

Product Group: Aggregate Impact Value (AIV)

Heavy duty construction, heavily plated assembly ensures corrosion resistance.

Standards

BS 812-112

Further Information

NOT AVAILABLE FOR SALE IN THE USA