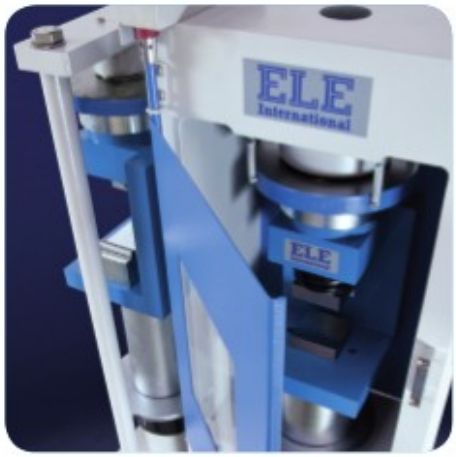
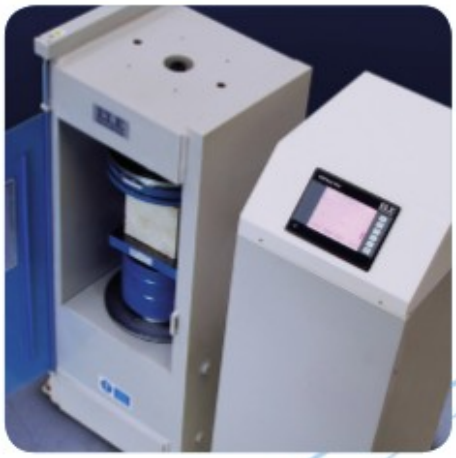


ELE INTERNATIONAL



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

www.ele.com

Contents

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38-2695
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150mm Cube Mould 4-Part Clamp Type. Cast Iron Construction. BS EN Compliant.

34-4520
100mm Cube Mould 4-Part Clamp Type. Cast Iron Construction. BS EN Compliant.

34-6431/01
Vibrating Poker 22mm Dia Tip 250mm Long. 220-240V 50/60Hz 1Ph.

78-5457/01
Electronic Balance - 8 000 g x 0.1 g

78-1250/01
225 Litre Drying Oven

38-2010
Vicat Frame

38-2110
EN Initial and Final Set Needle

38-2200
Vicat Mould

38-0620
Pure Mineral Oil 1 Litre Bottle.

38-0645
Reference Cement

38-0650
Filter Papers

38-1000
Blaine Air Permeability Apparatus

81-0518
Timer Clock

35-1500
Advanced SilverSchmidt Concrete Test Hammer

35-2302/09

Contents

Ultrasonic Concrete Tester 110-240V 50/60Hz 1Ph

35-1450
Windsor HP Probe System

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 24 kg.

Standards

ASTM D2435, ASTM D4546, AASHTO T216, ASTM D3877, BS 1377-5

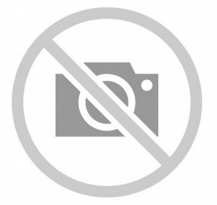
Further Information

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	203 x 711 x 508 mm, (8” w. x 28” d. x 20” h) . excluding weight hanger.
Weight	24 KG

Accessories



16 Ton Weight Set

Code: 25-0544

2.416" Fixed Ring Consolidometer

Code: 25-0480

2.5" Floating Ring Consolidometer

Code: 25-0530

Consolidation Cell Complete 2.5 Inch Diameter Sample. Inc. Porous Discs and Cutting Ring.

Code: 25-0479

Consolidation Cell Complete 50mm Diameter Sample.

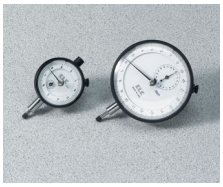
Code: 25-0455

Consolidation Cell/ Oedometer Complete 75mm Diameter Sample

Code: 25-0503

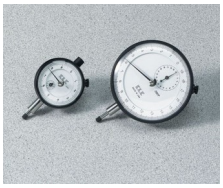
Floor Mounting Stand.

Code: 25-0429



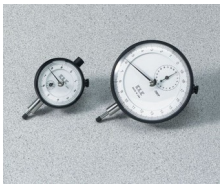
Mechanical Dial Indicator - 0.4" Range

Code: 88-4070



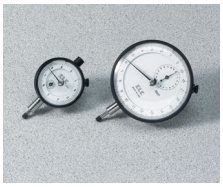
Mechanical Dial Indicator - 1.0" Range Counter Clockwise Movement

Code: 88-4120



Mechanical Dial Indicator - 10 mm Range

Code: 88-4080



Mechanical Dial Indicator - 25 mm Range Counter Clockwise Movement

Code: 88-4130

Set of Weights 100Kg Total Weight.

Code: 25-0408

Weight Set A

Code: 25-0535

Weight Set B

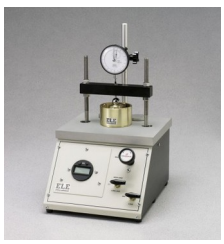
Code: 25-0537

Spares/Consumables

Electronic Digital Indicator, 0.600"/15 mm range

Code: 88-4210

Alternatives



Pneumatic Consolidation Apparatus

Code: 25-0560

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, ASTM D3877, BS 1377-5

Consolidation Cell Complete 2.5 Inch Diameter Sample. Inc. Porous Discs and Cutting Ring.

Code: 25-0479

Product Group: Table Top Consolidation Apparatus, ASTM/AASHTO consolidation cells and accessories, Pneumatic Consolidation Apparatus, Fixed Ring Consolidation

Standards

ASTM D2435, ASTM D4546, AASHTO T216, ASTM D3877

Specification

Application	ASTM
Specimen Dia	2.5 inch
Specimen area	4.909 inch²
Beam ratio	10:1
Load kg	1.55
Stress	1000 lbf/ft²
Typical max stress	103 200 lbf/ft²
Stress for 1 kg m²	645 lbf/ft²

Accessories

2.5" Floating Ring Consolidometer

Code: 25-0530

Calibration Disc 2.5 Inch Cell

Code: 25-0485

Consolidation Cell Complete 50mm Diameter Sample.

Code: 25-0455

Consolidation Cell/ Oedometer Complete 75mm Diameter Sample

Code: 25-0503

Spares/Consumables

2.5 Inch Dia Upper and Lower Porous Stones for Use on EL25-0479 Series Cell.

Code: 25-0479/13

Cutting Ring for 25-0479

Code: 25-0482

Alternatives

2.5" Floating Ring Consolidometer

Code: 25-0530

Calibration Disc 2.5 Inch Cell

Code: 25-0485

Consolidation Cell Complete 50mm Diameter Sample.

Code: 25-0455

Consolidation Cell/ Oedometer Complete 75mm Diameter Sample

Code: 25-0503

Calibration Disc 2.5 Inch Cell

Code: 25-0485
Product Group: ASTM/AASHTO consolidation cells and accessories, Fixed Ring Consolidation

Standards

ASTM D2435, ASTM D4546, AASHTO T216, ASTM D3877

Accessories

Consolidation Cell Complete 2.5 Inch Diameter Sample. Inc. Porous Discs and Cutting Ring.

Code: 25-0479

Alternatives

Consolidation Cell Complete 2.5 Inch Diameter Sample. Inc. Porous Discs and Cutting Ring.

Code: 25-0479

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

Code: 27-1300/01

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

· Download the full brochure here [/Page/catalogue-download/NTRmZS9UaGUgTkVXIERTVSBVU0EucGRm]

· 4 channel automatic control and data-logging unit

· Automatic, dual-frame control

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

The DSU has two distinct modes of operation. The first is referred to as DS mode (DataSystem) for operation with ELE International's established DS7 geotechnical testing software.

DS MODE

- Up to four one dimensional consolidation tests
- Up to two CBR tests
- One direct/residual shear test
- One triaxial quick un-drained test

DU MODE

- Up to two Marshall tests
- Up to two CBR tests
- Up to two Unconfined compression tests
- Automatic frame control

OVERVIEW

- Touch Screen data entry for standalone operation, Marshall/CBR/Quick un-drained

- Automatic single and dual frame control (with multiplex 50 frame)
- Log memory of 2 gigabytes
- Non-volatile memory
- Ethernet TCPIP link and serial comms support
- Market leading signal stability
- Certificate and manual calibration features

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

This product is now available in the USA and Canada!

Accessories

Cable, Safety/ID

Code: 27-1300/11

Dual Frame Comms Cable

Code: 27-1300/10

PC Cable

Code: 27-1300/12

Alternatives

DSU Electronic Readout and Control System 110 V AC 60 Hz

Code: 27-1300/02

Marshall Test 50

Code: 45-6810/01

Marshall Test 50

Code: 45-6810/06

Consolidation Transducer Assembly 10mm Travel Fitted with 5 Pin Din Plug.

Code: 27-1649

Product Group: Displacement Measurement, Displacement Transducers, Vertical settlement 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

Accessories

Axial Strain Transducer Assembly 50mm Travel Fitted with 5 Pin Din Plug.

Code: 27-1617

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

Code: 27-1697

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

Code: 27-1689

Spares/Consumables

CBR Displacement Transducer

Code: 27-1706

Alternatives

Transducer Extension Cable 3.0 m

Code: 27-1717

Transducer Extension Cable 4.5 m

Code: 27-1719

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

Code: 27-1773

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

DS7.2 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.

2.5 Inch Dia Upper and Lower Porous Stones for Use on EL25-0479 Series Cell.

Code: 25-0479/13

Product Group: ASTM/AASHTO consolidation cells and accessories, Fixed Ring Consolidation

Standards

ASTM D2435, ASTM D4546, AASHTO T216, ASTM D3877

Accessories

Consolidation Cell Complete 2.5 Inch Diameter Sample. Inc. Porous Discs and Cutting Ring.

Code: 25-0479

ELE Sieve Shaker

Code: 80-0200/01
Product Group: ELE Sieve Shaker

The ELE sieve shaker is powered by an electromagnetic drive that has no rotating parts to wear making it maintenance free and extremely quiet in operation.

The unit features a triple Vertical-Lateral-Rotary vibrating action that moves the sample over the sieve producing faster more efficient sieving, while the rapid vertical movements also help keep the apertures from blinding.

The shaker is ideal for laboratory or on site use. It is robust, compact and sufficiently lightweight to be portable. The separate digital microprocessor controlled console unit incorporates a keypad for setting the sieving program and is isolated from any effects of vibration from the shaker.

As standard the shaker includes, timer 0-999 minutes, adjustable vibration intensity and adjustable intermittent or continuous operation.

Further Information

NOT AVAILABLE FOR SALE IN THE USA

The unit accepts up to ten 200 mm or 8 inch, full height, diameter sieves and lid and receiver, or up to six 300 mm or 12 inch diameter sieves and lid and receiver. Complete as specified. Dimensions (l x w x h) 380 x 440 x 1085 mm. For 220 - 240 V AC, 50 Hz 1ph.

Loss on Heat/Thin-Film Oven 220-240V 50/60 Hz

Code: 46-4100/01

Product Group: Asphalt and Bitumen Ovens

The Thin-Film Oven is used for determining the loss in mass of oil and asphaltic / bituminous compounds when heated with the loss on heating test method or the effect of heat and air on semisolid asphaltic / bituminous materials with the Thin-Film Oven (TFOT) method.

Further Information

Features:

- Complies to the requirements of BS 2000, ASTM D6, D1754 & AASHTO T47, T179
- The exterior is constructed from sheet steel finished in an easy clean powder-coated paint
- Interior chamber is made from stainless steel
- The unit is well insulated and has a double glass door for viewing the test chamber
- The system is controlled by a microprocessor digital controller and overheat thermostat
- Calibrated scale and tamper-proof lock
- Temperature is controlled and pre-set at 163°C +/- 1°C
- Two rotating platforms of 13.5 inches dia are supplied to perform both the tests

Side mounted controls comprise:

- Microprocessor digital control
- Independent overheat thermostat
- Mains switch
- On/Off switch for the turntable motor
- Indicator lamps

Specification

Max Temp (°C)	163
Dimensions: Internal (HxWxD)	380 x 520 x 460 mm
Dimensions: External (HxWxD)	570 x 870 x 630 mm
Insulation	Double wall
Internal material	304 stainless steel
Turntable speed (rpm)	5.5
Max power (W)	1500

Cleveland Flash Cup Apparatus

Code: 46-3310/01
Product Group: Cleveland Flash Cup Apparatus

The ELE Semi-Automatic Cleveland Open Cup flashpoint Tester is equipped with an electrically heated cup (with a variable control to set temperature rise rate), a button operated and electrically driven sweep arm and a test flame for use on natural gas. Bench mounted, the unit is incorporated in an easy to clean stainless steel case.

Standards

BS 2000-36, EN ISO 2592, ASTM D92, IP 36

Further Information

NOT AVAILABLE FOR SALE IN THE USA

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

Specification

Temperature Range	Ambient to 400°C
Power	500 W maximum
Ramp rate	Variable, manually controlled
Voltage	220/240 V, 50/60 Hz
Size (HxWxD)	33 x 31 x 29 cm
Weight	6.5 kg

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, UNI 4161, UNE 7111, DIN 52011, NFT66-008, AASHTO T53, ASTM D36, BS 2000

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Accessories

Electrical Hotplate with Integral Magnetic Stirrer

Code: 46-4825/01

Thermometer

Code: 82-5272

Thermometer

Code: 82-5274

Electrical Hotplate with Integral Magnetic Stirrer

Code: 46-4825/01
Product Group: Ring and Ball Apparatus

Circular-top analogue magnetic hotplate stirrer.

Speed controls for constant speed (even during load changes).

Anti-corrosive ceramic steel plate with excellent thermal conductivity.

Long life brushless motor.

High magnetic adhesion.

CE marked.

Standards

EN 1427, BS 2000-58

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Specification

Temperature range	Ambient-340 Deg.C
Stirring speed	0-1500 rpm
Max. Viscocity	40 cP/ mPas
Heating rate (1 litre water)	6K/min
Motor type	Brushless
Stirring capacity	20L
Plate diameter	5.3"
Plate material	Ceramic coated steel
Dimensions	11"L x 61/4"W x 3"H
Weight	6lbs

Thermometer

Code: 82-5272

Product Group: Ring and Ball Apparatus, Non Hazardous Glass Thermometers

Mercury-free with a range of -10.0°C to + 210.0°C and graduated every 1°C. Immersion up to 76 mm

Standards

EN 1427, BS 2000-58

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Air Compressor

Code: 38-0320/01
Product Group: ELE Flame Photometer

Supplies air at 6 litres/minute at a pressure of 1 kg/cm2, for use with 38-0200/01 Flame Photometer.

Standards

EN 196-21, ASTM C114, TEST 17

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Rotatest 3000

Code: 45-3815/01
Product Group: Asphalt Centrifuge Extractors

Centrifuge extractor used to determine the quantitative amount of bitumen in bituminous paving mixtures. Variable speed control from 0 to 3600 rpm through the front panel mounted control knob and brake control included for rapid deceleration.

Precision machined aluminium removable cover with integral cup for adding solvent, with sealed cast aluminium housing.
For 220 V AC, 50 - 60 Hz, 1ph.

Standards

EN 12697-1, ASTM D2172, AASHTO T164

Further Information

NOT AVAILABLE FOR SALE IN THE USA

3000 g capacity. Supplied with 100 Filter Discs. For 220 V AC, 50 - 60 Hz, 1ph.

Accessories

Bowl - 2.5 litre

Code: 81-5020

Desiccator - Non-vacuum

Code: 82-2100

Evaporating Dish - 100 x 40 mm

Code: 82-1970

Filter Discs Pack of 100

Code: 45-3807

Hotplate

Code: 78-2950/01

Measuring Cylinder - Glass 100 ml

Code: 82-0380

Measuring Cylinder - Glass 1000 ml

Code: 82-0500

Sample Tray - 306 x 306 x 38 mm

Code: 81-4020

Silica Gel

Code: 82-7091

Volumetric Flask - 100 ml

Code: 82-1000

Volumetric Flask - 1000 ml

Code: 82-1060

Spares/Consumables

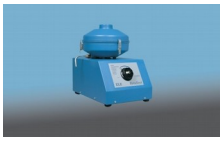
Replacement bowl for Rotatest 3000 centrifuge extractor

Code: 45-3815/10

Alternatives

Muffle Furnace

Code: 83-4170/01



Rotatest 1500

Code: 45-3810/01

ADR Touch Control Pro 2000 Auto Compression Machine

Code: 36-5125/01

Product Group: General Purpose Compression Machines

The ADR Touch Control Pro is supplied complete with safety gates ready for testing 300 x 150 mm diameter cylinders. When used for cube testing distance pieces of the appropriate size must be ordered separately.

Further Information

Not available for sale in the USA

The ADR Touch Control Pro will deliver all the features and quality of the established ADR-Auto range, with its 20 year history, but with a new sleek design and additional capabilities. The console assembly consists of an ADR Touch Control Pro and power base which can be used with all existing concrete and cement frames

USER INTERFACE

The new ADR Touch Control Pro has an improved user interface providing a high quality platform for testing that will enhance the performance of our compression machines. It now has a larger 7-inch colour touch screen with a higher definition display, allowing easier observation of test progress. A favourites option is also available, allowing users to save the most common set-ups for immediate access, without the need for navigating through selection menus.

USER FLEXIBILITY

The ADR Touch Control Pro has a unique flexible head with rotation capabilities of 75-degrees and a 45-degree tilt, improving usability and comfort for individual users. It is available with four languages English, Spanish, Portuguese and French, making it even more user-friendly and accessible to a wider audience. The new LAN connectivity feature lets the operator use the PC based APP (ELE Logger) to download test results away from the test area. User flexibility has also increased with the new ADR Touch Control Pro as it can now be operated remotely, so tests can be initiated away from the test area. Many issues can be resolved quickly by our service team through the new remote diagnostics feature and updating to the latest version of software has never been easier.

COMPATIBILITY

The all new dual sensor capabilities allow users to test both concrete and cement samples on one frame. The ADR Touch Control Pro is compatible with all existing compression frames and upgrade kits are also available. The upgrade kits can be used to convert existing ADR-Auto consoles to the new Automatic Digital Control Readout.

TESTING TIMES

The new generation ADR Compression Machines have an increased control over the pace rate, which allows users to run the pace rate higher than average, but still within standard. This produces an average time saving of 10% for a typical 150mm cube sample.

ELECTRICAL

Reduced component count and no wire design results in increased reliability and serviceability.

New low voltage interlocks and e-stop has increased safety. The ADR Touch Control Pro has the latest Arm Core Processor technology which has improved the processing power and speed.

Specification

Capacity	2000 kN
Cubes (Concrete)	Up to 200 mm
Cylinders (Concrete)	Up to 160 x 320 mm
Blocks	n/a
TFV and ACV	Yes
Voltage Supply	220-240 V 50 Hz 1 Ph
Frame Type	Welded
Max vert. Clearance	375 mm
Max hor. Clearance	355 mm
Platen Sizes	Lower , Upper 222 mm
Overall Dimensions	450 x 780 x 1225 mm

Accessories

100 kN Flexural Fitting Kit ADR Auto for 220 - 240 V AC, 50 Hz, 1 ph

Code: 37-6135/01

100 kN Flexural Fitting Kit ADR Auto for 220 - 240 V AC, 60 Hz, 1 ph

Code: 37-6135/06

2000 kN Load Calibration Device complete with Handheld Readout Unit & Calibration Certificate ISO376

Code: 37-8315

Flexible Hose

Code: 5038B0027

Impact Printer Rs232 Serial Connection. Supplied Complete with 1 Paper Roll.

Code: 37-4859/01

Standard Distance Piece - 100 mm Depth

Code: 37-5100

Standard Distance Piece - 20 mm Depth

Code: 37-4980

Standard Distance Piece - 50 mm Depth

Code: 37-5000

Standard Distance Piece - 60 mm Depth

Code: 37-5020

Standard Distance Piece - 80 mm Depth

Code: 37-5050

Spares/Consumables

Pressure transducer, 0-700bar, 0.05 to 10v DC Output

Code: 6014A0062

Alternatives

ADR Touch Control Pro 2000 Auto Compression Machine

Code: 36-5125/02

ADR Touch Control Pro 2000 Auto Compression Machine

Code: 36-5125/06

Standard Distance Piece - 80 mm Depth

Code: 37-5050
Product Group: Distance Pieces

Further Information

Not available for sale in the USA

Standard Distance Piece - 100 mm Depth

Code: 37-5100
Product Group: Distance Pieces

Further Information

Not available for sale in the USA

Standard Distance Piece - 20 mm Depth

Code: 37-4980
Product Group: Distance Pieces

Further Information

Not available for sale in the USA

100kN Flexural (Beams) Frame. Supplied Without Specimen Bearers and Fitting Kit.

Code: 37-6130

Product Group: Flexural Testing for Beams, Flexural Frame Attachments

- Open sided for ease of specimen loading
- Meets EN 12390-5, 1521, 13161, 772-6 and ASTM C78 for standard section beams
- Optional ball seating assembly

This rigidly constructed, open sided frame is suitable for testing 100 mm and 150 mm square-section beams. The frame supports a hydraulic ram and upper sub-platen assembly incorporating a spherical seating. The upper and lower sub-platens will accept various specimen loading bearers, which are supplied separately.

Please note, a flexural fitting kit is required, see the accessories tab for options.

Standards

BS 1881-118, EN 12390-5

Accessories

100 kN Flexural Fitting Kit ADR Auto for 110 - 120 V AC, 60 Hz, 1 ph

Code: 37-6135/02

100 kN Flexural Fitting Kit ADR Auto for 220 - 240 V AC, 50 Hz, 1 ph

Code: 37-6135/01

100 kN Flexural Fitting Kit ADR Auto for 220 - 240 V AC, 60 Hz, 1 ph

Code: 37-6135/06

100kN Flex Fitting Kit For Accu-Tek

Code: 1925PL0078

100kN Flexural Fitting Kit (ADR) Used for Connecting Flexural Frames to ADR Compression Machines.

Code: 37-6138

ASTM C78 Specimen Bearer Assembly Case-Hardened 38mm Dia X 160mm Length.

Code: 37-6132

Ball Seating Assembly 150mm Dia Platens.

Code: 37-6133

BS 1881 Specimen Bearer Assembly 38mm Dia X 160mm Length.

Code: 37-6131

Standard Distance Piece - 100 mm Depth

Code: 37-5100

Standard Distance Piece - 20 mm Depth

Code: 37-4980

Standard Distance Piece - 50 mm Depth

Code: 37-5000

Standard Distance Piece - 60 mm Depth

Code: 37-5020

Standard Distance Piece - 80 mm Depth

Code: 37-5050

Alternatives

Accu-Tek Touch 250 Automatic Compression Machine 110 V 60Hz

Code: 36-1690/02

Accu-Tek Touch 250 Automatic Compression Machine 220-240 V 50Hz

Code: 36-1690/01

Accu-Tek Touch 250 Automatic Compression Machine 220-240 V 60Hz

Code: 36-1690/06

ADR Touch Manual Power Pack Including Fitting Kit 110V 60Hz 1Ph

Code: 36-6165/02

ADR Touch Manual Power Pack Including Fitting Kit 220-240V 50/60Hz 1Ph

Code: 36-6165/01

BS 1881 Specimen Bearer Assembly 38mm Dia X 160mm Length.

Code: 37-6131

Product Group: Flexural Testing for Beams

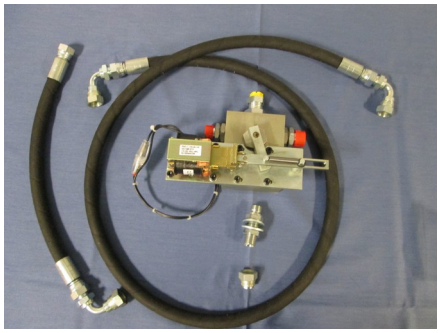
Comprising 2 self-aligning upper bearers, 1 self-aligning and 1 fixed lower bearer. Roller bearers are 38 mm diameter x 160 mm long. Suitable for 3- or 4-point flexural testing of beams.

Standards

BS 1881-118, EN 12390-5

Further Information

Not available for sale in the USA



100 kN Flexural Fitting Kit ADR Auto for 220 - 240 V AC, 50 Hz, 1 ph

Code: 37-6135/01

Product Group: Accessories to connect ELE compression machines to the flexural/transverse frames

These flexural frames can be used with a wide range of ELE compression machines. Simply select one of two fitting kits designed to link the flexural frame to either the ADR-Auto range of compression machines.

Further Information

Not available for sale in the USA

Ball Seating Assembly 150mm Dia Platens.

Code: 37-6133

Product Group: Flexural Testing for Beams, Flexural Frame Attachments

Comprising a ball seating assembly with 150 mm diameter platen and a lower platen 150 mm diameter x 16 mm thick. Suitable for testing low-strength specimens.

Further Information

Specimen size (effective height)
Distance pieces required

40 mm
2 x 100 mm
1 x 80 mm

50 mm
2 x 100 mm
1 x 50 mm
1 x 20 mm

70.7 mm
2 x 100 mm
1 x 50 mm

100 mm
2 x 100 mm
1 x 20 mm

6x12 Concrete Cyl. Compressometer/Extensiometer - English

Code: 37-5625

Product Group: Strain Gauge, Concrete Cylinder Compressometer-Extensometer

With English reading dial indicators.

MEET ASTM C469

• Used to determine Young's Modulus and Poisson's Ratio in concrete cylinders per ASTM C469.

• Compressometers come with one dial to measure axial strain, used for Young's Modulus.

• Compressometer/Extensiometers have an extra collar and dial to also measure radial strain, used for Poisson's Ratio.

Standards

ASTM C469

Specification

Sample Size.	6" diam. x 12" l. (152 x 305 mm)
Frame	Aluminum-magnesium alloy.
Contact Points.	Steel.
Control Rods.	Stainless steel.
Dial Indicators.	Two included.
Readability.	to 50 micor inches (0.00124 mm).
Weight.	Net 15 lbs. (6.8 kg).

Alternatives

4x8 Concrete Cyl. Compressometer/Extensiometer - English

Code: 37-5624

6x12 Concrete Cyl. Compressometer - Digital Indicators

Code: 37-5628

6x12 Concrete Cyl. Compressometer - Metric

Code: 37-5626

Slump Test Set BS & ASTM. C/W Slump Cone Base Plate Steel Rule Tamping Rod & Funnel.

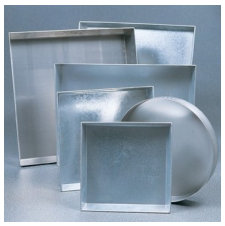
Code: 34-0192
Product Group: Slump Test

BS and ASTM comprising of slump cone, base plate, steel rule, tamping rod and funnel.

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Accessories



Sample Tray - 1200 x 1160 x 50 mm

Code: 81-4230

Shovel - With flat blade

Code: 81-0240

Spares/Consumables

Stopwatch

Code: 81-0521

Pocket Concrete Penetrometer

Code: 38-2695

Product Group: Concrete Mortar Penetrometer, Concrete Mortar Penetrometer, Setting Time by Penetration Resistance

- Stainless steel
- Corrosion resistant
- Two versions available for Concrete and Soils
- Easy to read scales
- Complies to ASTM C403 and AASHTO T197

Standards

ASTM C187, ASTM C191, ASTM C780

Specification

Needle	Steel shaft; 1/20 sq. in. surface area.
Range	0 to 700 psi.
Scale	Direct-reading; indicator sleeve holds reading until released.
Dimensions	3/4” (19 mm) diam. x 7” (178 mm) long.
Carrying Case	Canvas, with belt-loop.
Weight	Net 8 oz. (227 g).

150mm Cube Mould 4-Part Clamp Type. Cast Iron Construction. BS EN Compliant.

Code: 34-4570
Product Group: Cube Moulds, Cube Moulds

4-part with clamp attached base plate.

Standards

BS 1881-108, EN 12390-1, EN 12390-2

Specification

Construction	Bolted sides and clamped base plate
Finish	Painted
Weight	42 lb (19.1 kg)

Accessories

Aluminium Scoop Large

Code: 81-0220

Compacting Bar 25mm Sq X 380mm

Code: 34-2910

Float - Plasterer’s type

Code: 81-0340

Mould Oil (25 Litre Drum)

Code: 82-7341

Wire Brush

Code: 81-0705

Spares/Consumables

Soft Headed Mallet.

Code: 29-5020

Alternatives

Vibrating Table 600 X 400mm Table Top. 220-240V 50Hz 1Ph. Supplied with clamping assembly

Code: 34-6250/01

100mm Cube Mould 4-Part Clamp Type. Cast Iron Construction. BS EN Compliant.

Code: 34-4520
Product Group: Cube Moulds, Cube Moulds

4-part with clamp attached base plate.

Standards

EN 12390-1, EN 12390-2

Specification

Construction	Bolted sides and clamped base plate
Finish	Painted
Weight	20 lb (9.1 kg)

Accessories

Aluminium Scoop Large

Code: 81-0220

Compacting Bar 25mm Sq X 380mm

Code: 34-2910

Float - Plasterer’s type

Code: 81-0340

Mould Oil (25 Litre Drum)

Code: 82-7341

Wire Brush

Code: 81-0705

Spares/Consumables

Soft Headed Mallet.

Code: 29-5020

Alternatives

Vibrating Table 600 X 400mm Table Top. 220-240V 50Hz 1Ph. Supplied with clamping assembly

Code: 34-6250/01

Vibrating Poker 22mm Dia Tip 250mm Long. 220-240V 50/60Hz 1Ph.

Code: 34-6431/01
Product Group: Vibrating Poker

- High amplitude and speed
- Flexible shaft for long life

Used as an internal means of vibratory compaction. The poker is inserted into the concrete which is then compacted by the high frequency vibration action. For use in either laboratory or site environments, the diameter of the vibrating tip must not exceed 25% of the smallest dimension of the specimen.

Standards

EN 12390-2

Further Information

NOT AVAILABLE FOR SALE IN THE USA

For 220 - 240 V AC, 50 - 60 Hz, 1 ph

Specification

Tip Dimensions	22 mm diamenter x 250 mm long
Shaft dimensions	2.0 m long
Speed	12,000 vibrations/min.
Overall Dimensions	200 x 300 x 350 mm
Weight	7 kg

Electronic Balance - 8 000 g x 0.1 g

Code: 78-5457/01
Product Group: Electronic Balances

Further Information

Not available for sale in the USA

Specification

Capacity resolution	8000 g x 0.1 g
Pan size	225 x 275 mm
Mains and battery	Yes
Dimensions (w x d x h)	315 x 355 x 110 mm
Weight	4 kg
Weighing units	g, kg, lb, lb:oz, oz
Repeatability	0.1 g

225 Litre Drying Oven

Code: 78-1250/01

Product Group: Percentage Refusal Density (PRD), Oven Drying Method, Oven Drying Method, Oven Drying Method

Standards

EN 12697-32, EN 13280-4, BS 598-104, BS 1377

Specification

Capacity	225 litres
External Dimensions (l x w x h)	540 x 1040 x 940
Internal Dimensions (l x w x h)	440 x 920 x 600
Fluctuation	± 0.75°C
Rated power heater elements	2000 W
Shelves supplied	3
Shelf positions	4
Weight	80 kg

Alternatives

100 Litre Drying Oven

Code: 78-1225/01

150 Litre Drying Oven

Code: 78-1235/01

50 Litre Drying Oven

Code: 78-1215/01

Drying Oven 425 Litre Capacity

Code: 78-0135/01

Vicat Frame

Code: 38-2010
Product Group: Vicat Method

Complete with consistency plunger, 10 mm diameter. Requires one initial or final set needle to make up test weight to 300g.

Standards

EN 196-3, EN 13454-2, ASTM C187, ASTM C191

Further Information

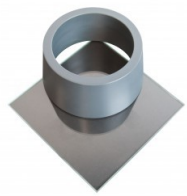
NOT AVAILABLE FOR SALE IN THE USA

Accessories

ASTM Initial Set Needle

Code: 38-2620

ASTM Vicat Mould

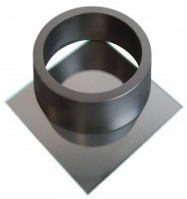


Code: 38-2660

EN Initial and Final Set Needle

Code: 38-2110

EN Vicat Mould



Code: 38-2300

Engineer's Steel Rule

Code: 81-0805

Harvard Trip Balance

Code: 78-7090

Timer Clock

Code: 81-0518

Vicat Mould

Code: 38-2200

Weights for Harvard Trip Balance

Code: 78-7110

Spares/Consumables

Consistency Plunger

Code: 38-2010/10

EN Initial and Final Set Needle

Code: 38-2110
Product Group: Vicat Method

1.13mm diameter and 1.13mm diameter with special footing.

Standards

ASTM C187, ASTM C191

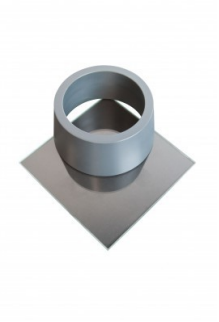
Further Information

NOT AVAILABLE FOR SALE IN THE USA

Accessories

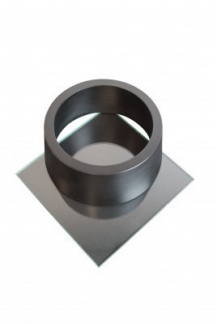
ASTM Initial Set Needle

Code: 38-2620



ASTM Vicat Mould

Code: 38-2660



EN Vicat Mould

Code: 38-2300

Engineer's Steel Rule

Code: 81-0805

Harvard Trip Balance

Code: 78-7090

Vicat Mould

Code: 38-2200

Weights for Harvard Trip Balance

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Spares/Consumables

Consistency Plunger

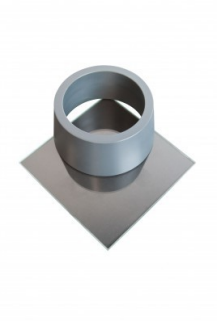
Code: 38-2010/10

Alternatives

ASTM Initial Set Needle

Code: 38-2620

ASTM Vicat Mould



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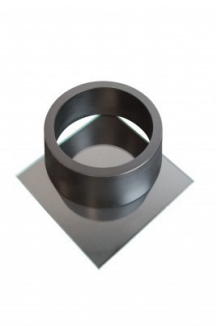
EN Vicat Mould



Code: 38-2300

Engineer's Steel Rule

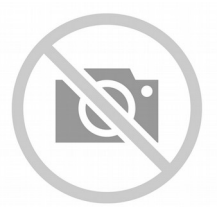
Code: 81-0805

Harvard Trip Balance

Code: 78-7090

Vicat Mould

Code: 38-2200



Weights for Harvard Trip Balance

Code: 78-7110

Vicat Mould

Code: 38-2200
Product Group: Vicat Method, Automatic Vicat

Accessory: manufactured from brass and supplied complete with a ring and glass base plate.

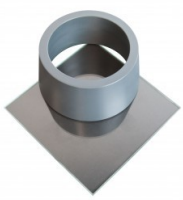
Further Information

NOT AVAILABLE FOR SALE IN THE USA

Accessories

ASTM Initial Set Needle

Code: 38-2620



ASTM Vicat Mould

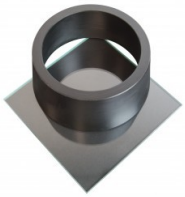
Code: 38-2660

EN Initial and Final Set Needle

Code: 38-2110

EN Vicat Mould

Code: 38-2300



Spares/Consumables

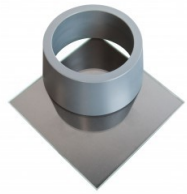
Consistency Plunger

Code: 38-2010/10

Alternatives

ASTM Initial Set Needle

Code: 38-2620

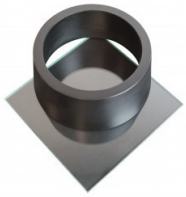


ASTM Vicat Mould

Code: 38-2660

EN Initial and Final Set Needle

Code: 38-2110



EN Vicat Mould

Code: 38-2300

Pure Mineral Oil 1 Litre Bottle.

Code: 38-0620
Product Group: Blaine Fineness Apparatus, Determination of Fineness Blaine Apparatus

Standards

EN 196-21, ASTM C204

Reference Cement

Code: 38-0645
Product Group: Blaine Fineness Apparatus, Determination of Fineness Blaine Apparatus

Accessory: 5g sachet.

Standards

ASTM C204, AASHTO T153

Filter Papers

Code: 38-0650
Product Group: Determination of Fineness Blaine Apparatus

Accessory: 12.7mm diameter. Box of 100.

Standards

ASTM C204

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Blaine Air Permeability Apparatus

Code: 38-1000
Product Group: Blaine Fineness Apparatus, Determination of Fineness Blaine Apparatus

Standards

EN 196-6, EN 459-2, EN 13286-44, BS 4359-2, ASTM C204, AASHTO T153

Specification

Cell	Stainless steel; 12.70 ±0.10 mm i.d.
Disk	0.9 ±0.1 mm thick with 30-40 one mm diam. holes.
Plunger	Stainless steel.
Manometer	U-tube glass with ground joint, stop cock and rubber bulb assembly.
Filter Paper	12.70 mm diam.
Fluid	Pure Mineral Oil.
Weight	Net 7 lbs. (3.2 kg).

Accessories

Electronic Balance - 620 g x 0.001 g

Code: 78-5405/01

Filter Papers

Code: 38-0650

Pure Mineral Oil 1 Litre Bottle.

Code: 38-0620

Reference Cement

Code: 38-0645

Spares/Consumables

Aspirator

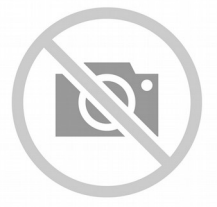
Code: 38-0500/11

Blaine Air Permeability Cell

Code: 38-1000/15

Filter Paper

Code: 38-0652



Manometer U-tube

Code: 38-1000/10

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

Advanced SilverSchmidt Concrete Test Hammer

Code: 35-1500

Product Group: Surface Hardness, Surface Hardness

The SilverSchmidt ST/PC is the first integrated concrete test hammer featuring true rebound value and unmatched repeatability.
Two factors contribute to the improved performance of this concrete test hammer over its predecessors:

- Velocity based detection of the rebound quotient

- The lightweight hybrid design of the impact plunger is made from aerospace alloy, matched to the elastic properties of the concrete and equipped with a hardness steel cap

Independent validation testing by BAM (Federal Institute for Materials Research and Testing, Germany) has shown the SilverSchmidt ST/PC to have less dispersion than the classical concrete test hammer over the entire range.
The unique design and high quality construction of the concrete test hammer SilverSchmidt ST/PC makes rebound hammer testing quicker and more accurate than ever before.

Standards

EN 12504-2, EN 13791, ASTM C805

Further Information

- The SilverSchmidt ST/PC concrete test hammer combines a high measurement accuracy with an unmatched repeatability.

- The rebound value requires no angular correction

- The concrete test hammer offers customer conversion curves for a wide range of compressive concrete strengths, including low fc (<10 N/mm2, 1'450 psi) and high strength concrete (up to 100 N/mm2, 14'500 psi)

- A large number of measurement points can be easily collected by the concrete test hammer and automatically evaluated according to statistical data

- The concrete test hammer offers automatic conversion to the required measurement unit (MPa, N/mm2, kg/cm2, psi)

Specification

Technical Data	Silver Schmidt
Impact Energy	2.207 Nm
Hammer Mass	135 g
Spring Constant	0.79 N/mm
Spring Extension	75 mm (2.95")
Dimensions	55 x 55 x 255 mm (2.16" x 2.16" x 9.84")
Concrete Compressive Strengths	10-100 N/mm2 (1450-14500 psi)
Weight	570 g (1.4 lb)

Ultrasonic Concrete Tester 110-240V 50/60Hz 1Ph

Code: 35-2302/09

Product Group: Ultrasonic Detection, Ultrasonic Concrete Test

35-2302/09 is the most versatile Concrete Tester to date. It has all the functions of the classic Concrete Tester, but offers additional benefits.
Designed with laboratory use in mind, its compact size, rugged construction and optimized power consumption make it equally suitable for on-site use.

Along with the traditional transit time and pulse velocity measurement, 35-2302/09 offers path length measurement, perpendicular crack depth measurement and surface velocity measurement.

Optimized pulse shaping gives greater transmission range at lower voltage levels. This coupled with automated combination of the transmitter voltage and the receiver gain ensures an optimum received signal level, ensuring accurate and stable measurements.

The waveform can be viewed either via an external oscilloscope connection or directly on a connected PC screen.

Full remote control capability completes the package.

Complete with two 54 kHz transducers each with 3.6 metres of cable, coupling agent, carrying case and instruction manual.

Applications include pulse velocity determination, quality assessment and uniformity, modulus of elasticity measurement, curing status evaluation, crack depth estimation, assessment of fibre reinforced concrete.

Consists of display unit, 2 transducers (54 kHz), 2 BNC cables 1.5m, couplant, calibration rod, USB charger with USB-cable, 4x AA (LR6) batteries, data carrier with software, documentation and carrying case.

Standards

BS 1881-203, EN 12504-4, ASTM C597, D2845

Further Information

For 110 - 240 V AC, 50 - 60 Hz, 1 ph.

Specification

Measuring range	Up to 15 m depending on concrete quality
Bandwidth	20 to 500 kHz
Technology	Ultrasonic pulse velocity
Measuring resolution	0.1 us
Pulse voltage UPV	125 to 500 V
Receiver gain	1x, 10x, 100x, auto
Pulse shape	Square wave
Nominal transducer frequency	24-500 kHz
Number of channels	1

Spares/Consumables

Ultrasound Couplant Supplied In 250ml bottle

Code: 35-2305

Windsor HP Probe System

Code: 35-1450
Product Group: Windsor HP Probe System

Standards

ASTM C803

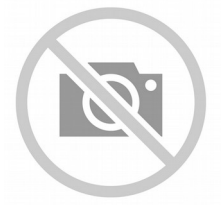
Further Information

Probe and Power Loads not included, order separately.

Specification

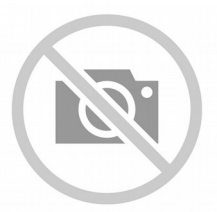
System Components	Drive unit, electronic measuring device, templates, measuring caps, gauge plates and carrying case.
Weight	Net 18 lbs. (8.5 kg).
Probes (Optional)	Silver Kit, Gold Kit: For tests on concrete with strengths up to 17,000 psi (11 0 MPa). Probes are made of high strength alloy, heat treated and annealed to Rockwell C 48.

Accessories



Gold Probe Kit

Code: 35-1454



Silver Probe Kit

Code: 35-1452