

















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

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46-6100/01

Asphalt Binder Analyser 220-240V 50/60 Hz

45-3815/01 Rotatest 3000

45-3815/10 Replacement bowl for Rotatest 3000 centrifuge extractor

45-3807 Filter Discs Pack of 100

46-3310/01 Cleveland Flash Cup Apparatus

46-2190 Hubbard-Carmick Specific Gravity Bottle

46-2191 Hubbard-Carmick Specific Gravity Bottle

46-5295/01 Semi-Automatic Penetrometer

46-5360/10 Penetration Needle

46-5340/C **Penetration Needle**

46-5861 **Penetration Tin**

46-5800 **Transfer Dish**

46-5860 Penetration Tin

82-5272 Thermometer



46-4605 BS/EN Ring and Ball Apparatus

46-4825/01 Magnetic Stirrer

45-6410 Compaction Pedestal BS 598

45-6460 Compaction Hammer

45-6600/01 AutoComp 100-A

78-3104/01 Digital Hotplate

45-6462 Paper Discs

45-6310 Compaction Mould

45-6463 Steel Block

45-6550/01

30 L Heating Bath with Led Display Cover

23-4200

Proctor/Core Cutter Extruder Frame and Hydraulic Jack. Extrudes 100mm/4 Inch Diameter Specimens

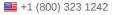
23-6191/01

Bench-Mounting Mixer 5 Litre Capacity Complete with Bowl Beater and Whisk. 220-240V 50Hz 1Ph.

45-5580/01

Isomantle Electric Heater

23-6191/10 Stainless Steel Bowl 4.73 Litres.





45-6600/K1 Automatic Asphalt Compactor - Spares Kit 220V

25-3700/01

MultiPlex 50 Load Frame

45-6850 Breaking Head (Marshall)

45-6820/11 Flow Transducer

27-1559 50kN S-type Load Cell

27-1300/02 DSU Electronic Readout and Control System 110 V AC 60 Hz

45-6890 Flow Meter ASTM

45-9315/10 Attachment Required for 6000 g

45-9315/01 Rice Test Vibrator

81-0518 Timer Clock

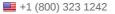
45-9305/01 Vacuum Pyknometer Apparatus

45-9300 Vacuum Pyknometer, 6000 g

47-0202 Digital Asphalt Thermometer

47-0202/11 **535 Asphalt Probe**

47-0202/10 **250 Asphalt Probe**





34-8100/09

Buoyancy Balance

34-8105 **Cradle**

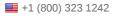
47-5175 Compact Core Drill

47-5605 **Core Barrel 150 mm**

47-5565

Core Barrel 100 mm

78-1225/01 **100 Litre Drying Oven**





Asphalt Binder Analyser 220-240V 50/60 Hz

Code: 46-6100/01

Product Group: Ignition Method

Designed to measure the asphalt binder content of hot mix asphalt (HMA) using loss on ignition, in accordance with AASHTO T 308-10, ASTM D6307-10 and BSEN 12697-39:2012.

Further Information

The integral microprocessor controlled weighing and calculation system is configurable to allow variations to the standard test method. Test result reports are available in both printed and software format. The high temperature afterburner minimises the production of noxious waste fumes. Supplied complete with 2 sets of sample baskets.

Features:

- · Designed to measure asphalt binder content by loss on ignition
- Avoids health, environmental and waste management issues
- · Avoids the expense associated with older solvent extraction methods
- Reduced emissions due to high temperature afterburner
- Controlled via a multi-lingual touchscreen interface
- English, Spanish, French, Chinese, Italian and Russian language display
- Other languages are available to order
- Automatic calculation of final sample weight and binder % result
- Adjustable aggregate correction factor
- Average test times from 20 mins for 6 mm aggregates, to 45 mins for 40 mm aggregates
- Permanent (dot-matrix) printed reports
- USB data output compatible with most spread sheets
- · Easy naming, storage and recall of recipes that can be transferred between units
- · Simplified menu structure with secure 'Supervisor' and 'Operator' settings
- Metal waste gas extraction pipe
- Factory fitted thermocouple access port, if temperature calibration is to be carried out
- Precise weight measurements, displayed to 0.1g resolution
- Capacity for large sample sizes for more accurate results (max. sample is 4.5kg)

Specification

Max Temp (°C)	750
Dimensions: Internal (HxWxD)	220 x 450 x 350 mm
Dimensions: External (HxWxD)	980 x 600 x 775 mm







Type Thermocouple type Max power (W)

Bench-top K 8000





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







ELE



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



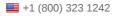
Volumetric Flask - 1000 ml

Code: 82-1060

Alternatives



Muffle Furnace Code: 83-4170/01











Rotatest 1500 Code: 45-3810/01







Replacement bowl for Rotatest 3000 centrifuge extractor

Code: 45-3815/10 Product Group: Asphalt Centrifuge Extractors Holds 3000 g.

Further Information **NOT AVAILABLE FOR SALE IN THE USA**







Filter Discs Pack of 100

Code: 45-3807 Product Group: Asphalt Centrifuge Extractors 295 mm internal diameter with a 44 mm diameter

hole.

Standards EN 12697-1, ASTM D2172, AASHTO T164

Further Information





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







Hubbard-Carmick Specific Gravity Bottle

Code: 46-2190 Product Group: Hubbard-Carmick Specific Gravity Bottles

Conical type 25 ml.

Standards

ISO 3838, BS 4699, ASTM D70, AASHTO T228

Further Information







Hubbard-Carmick Specific Gravity Bottle

Code: 46-2191 Product Group: Hubbard-Carmick Specific Gravity Bottles

Cylindrical type 24 ml.

Standards

ISO 3838, BS 4699, ASTM D70, AASHTO T228

Further Information







Semi-Automatic Penetrometer

Code: 46-5295/01 Product Group: Penetration Test

As 46-5290 but incorporates Digital Automatic Controller which releases the needle assembly. The time set is displayed by a bright, easy to read display.

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

Further Information **NOT AVAILABLE FOR SALE IN THE USA**

Accessories

Constant Temperature Bath 21 - 56°C



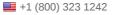
Code: 46-5500/01



Penetration Needle Code: 46-5340/C



Penetration Needle Code: 46-5360/10











Penetration Tin

Code: 46-5861



Transfer Dish

Code: 46-5800

Spares/Consumables



ASTM (Non-Certified) Penetration Needle

Code: 46-5290/10



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Penetration Needle

Code: 46-5360/10 Product Group: Penetration Test Hardened steel.

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

Further Information







Penetration Needle

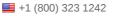
Code: 46-5340/C Product Group: Penetration Test

Hardened steel, supplied with an UKAS verification certificate. For testing to BS 2000-49 and ASTM D5. (Pack contains 1 needle only).

Standards

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

Further Information







Penetration Tin

Code: 46-5861 Product Group: Penetration Test

For penetrations below 200, approximately 55 mm diameter x 35 mm deep.

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

Further Information







Transfer Dish

Code: 46-5800 Product Group: Bitumen Penetration Test, Asphalt Penetrometer, Penetration Test

For use with ELE Penetrometer 46-5295.

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







Penetration Tin

Code: 46-5860 Product Group: Penetration Test

For penetrations between 200 and 350, approximately 70 mm diameter x 45 mm deep.

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

Further Information







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





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



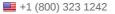
Magnetic Stirrer

Code: 46-4825/01



Thermometer

Code: 82-5272











Thermometer

Code: 82-5274





Magnetic Stirrer

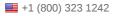
Code: 46-4825/01 Product Group: Ring and Ball Apparatus

Utilises a rotating magnetic field to induce variable speed stirring action. A built-in regulating transformer provides fine temperature control of liquid up to a maximum temperature of +150°C. The unit is suitable for use with the Ring and Ball Apparatus.

Standards

EN 1427, BS 2000-58

Further Information





Compaction Pedestal BS 598

Code: 45-6410 Product Group: Manual Compaction

Comprising a 300 mm sq x 25 mm thick steel plate complete with 4 tie rods and securing nuts. A mould clamp and hammer guide are fitted to the plate. The unit is supplied complete with a laminated hardwood block.

Standards EN 12697-30

Further Information







Compaction Hammer

Code: 45-6460 Product Group: Manual Compaction, Stability Compaction Hammer

Satisfies BS 598. The hammer has a 4535 g sliding weight with a free fall of 457 mm.

Standards

EN 12697-30, ASTM D6926, AASHTO T245

Specification

Tamping Face Hammer Drop Construction

Weight

3-7/8" (98 mm) diam. 10 lb. (4.54 kg). 18" (457 mm). Machined steel; cast aluminum handle. Net 16 lbs. (7.2 kg).





AutoComp 100-A

Code: 45-6600/01

Product Group: Automatic Compaction

- Fully automatic, simple to operate
- Built-in safety features
- Uniform compaction
- Automatic blow counter

This ruggedly constructed automatic compactor provides a consistent and even degree of compaction. The unit incorporates a compaction pedestal comprising a laminated hardwood block secured to a concrete base by a 300 mm square x 25 mm thick steel plate. The mechanism lifts the 4535 g hammer and automatically releases it at the specified height of 457 mm. The conveniently positioned control fascia panel comprises of a mains light, start and stop buttons and a direct-reading counter used to set the required number of blows.

During operation the AutoComp 100-A automatically counts down to zero. Dual rammer pick-ups have been incorporated, reducing stress on the machine's internal mechanism.

Particular attention has been paid to operator safety by the inclusion of various in-built safety features.

Standards

EN 12697-10, EN 12697-30, BS 598

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Specification

Dimensions (I x w x h) Compaction foot diameter 535 x 535 x 1880 mm 98.52 mm

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Sliding weight	4535 g
Height of drop	457 mm
Weight	278 kg

Accessories



Digital Hotplate Code: 78-3104/01



Paper Discs

Code: 45-6462



Sample Tray - 306 x 306 x 38 mm Code: 81-4020

Alternatives

Compaction Mould

Code: 45-6310











Digital Hotplate

Code: 78-3104/01 Product Group: Digital Hotplate

Further Information **Not available for sale in the USA**

Specification

Dimensions Construction

Maximum temperature Rated power 520 x 360 x 130 mm Robust metal with anodised aluminium plate heated surface 300 x 1°C 1500 W







Paper Discs

Code: 45-6462 Product Group: Filter Paper Discs, Accessories for manual and automatic compaction

Non-absorbent, 99 mm diameter, pack of 100.

Standards EN 12697-30

Specification Weight

Net 2.9 oz. (82 g).





Compaction Mould

Machined seamless steel

Plated for rust resistance. 4" (101.6 mm) i.d. x 3" (76.2

forming mold; base and collar.

mm) internal h. with base. Net 6 lbs. (2.7 kg).

Code: 45-6310 Product Group: Asphalt Compaction Mould, Accessories for manual and automatic compaction

Comprising of mould body, baseplate and combined filling/extraction collar.

Standards EN 12697-30, ASTM D6926, AASHTO T245

Specification

Construction

Finish Dimensions

Weight

Alternatives









AutoComp 100-A

Code: 45-6600/01







Steel Block

Code: 45-6463 Product Group: Accessories for manual and automatic compaction

100 mm diameter \times 50 mm height. For heating the compaction hammer foot.

Standards EN 12697-30

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Accessories



Water Bath

Code: 45-6490/01

Spares/Consumables



Baseplate

Code: 45-6310/11









Compaction Mould Body

Code: 45-6310/10

Alternatives



Water Bath

Code: 45-6490/01







30 L Heating Bath with Led Display Cover

Code: 45-6550/01 Product Group: Accessories for manual and automatic compaction

Standards

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

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Accessories



Breaking Head (Marshall)

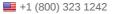
Code: 45-6850

Alternatives



Breaking Head (Marshall)

Code: 45-6850









Proctor/Core Cutter Extruder Frame and Hydraulic Jack. Extrudes 100mm/4 Inch Diameter Specimens

Code: 23-4200

Product Group: Soil Extruders, Accessories for manual and automatic compaction

Adaptor plates will be supplied; extrudes samples from BS Compaction Mould, Proctor Mould 100 mm, Core Cutter and Marshall Mould. Maximum extrusion force 20kn.

Standards BS 1377-1

Further Information

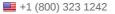
NOT AVAILABLE FOR SALE IN THE USA

Accessories

Steel Block Code: 45-6463



Alternatives









38mm Hand Operated Hydraulic Sample Extruder with Trimming Knife 38mm Split Former & Cutting Tool.

Code: 23-4090



Cbr/Core Cutter Extruder Frame and Hydraulic Jack Extrudes 150mm/6 Inch Diameter Specimens.

Code: 23-4250



Marshall Test 50 Code: 45-6810/06



Marshall Test 50 Code: 45-6810/01





Bench-Mounting Mixer 5 Litre Capacity Complete with Bowl Beater and Whisk. 220-240V 50Hz 1Ph.

Code: 23-6191/01 Product Group: Sample Mixers, Mixing, Sample Mixers

The mixer has two electrically switched mixing speeds which obviates the need to switch off during speed selection. The mixing head comprises a beater which contra-rotates about a central shaft using planetary gearing. A lever-acting lifting device facilitates the insertion and removal of the bowl. This mixer is suitable for the mixing of soil samples, mortar, bituminous mixtures and associated materials where comparatively small samples are being prepared. Supplied with stainless steel bowl, beater and whisk.

Standards BS 598-107, BS 1377-1, BS 1924-1

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Specification

Dimensions	545 x 380 x 550 mm
Beater Speeds (rpm) low, intermediate, high	136, 281, 580
Central shaft speeds (rpm) low, high	60, 124, 255
Rated power	500 W
Weight	20.2 kg

Accessories



Isomantle Electric Heater

Code: 45-5580/01





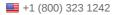


Spares/Consumables

Stainless Steel Bowl 4.73 Litres.

Code: 23-6191/10







Isomantle Electric Heater

Code: 45-5580/01 Product Group: Sample Mixers, Mixing, Sample Mixers

For use with 23-6191 Bench Mounting Mixer.

Standards EN 12697-35

Further Information

NOT AVAILABLE FOR SALE IN THE USA







Stainless Steel Bowl 4.73 Litres.

Code: 23-6191/10 Product Group: Sample Mixers, Mixing, Sample Mixers

For use with the 5 Litre Bench Mounted Mixer - 23-6191/01 $\ensuremath{\mathsf{N}}$







Automatic Asphalt Compactor - Spares Kit 220V

Code: 45-6600/K1 Product Group: Spares kit for the Autocomp 100-A

Further Information

The Kit Includes Quantity Pick Up Issue 3 2

Roll Pin ; M8 X 40MM

Countdown Micro Switch; SAIA-Burgess CR1Q ; Alternative BURPN4-1 ; Now Cherry GPTCNH01 ; 15A Button

Hex Socket Cap Head Screw M5 X 16 Lg High Tensile

8

M5 Full Nut. BZP 8

Spacer 3

Anti Surge Fuse for Digital Console 240V. 5

A/S Fuse ; RS541-3906 50MA X 30MM 5

Tongue for Marshall Compactor (1108A0033) 1

Connecting Link Spring Set for Chain Assy of 45-6600/01 Bitumen Compactor. 2

Tongue Spring for El45-6600/01 and 02. 1

Foot Mkv (1108B0071) 1





MultiPlex 50 Load Frame

Code: 25-3700/01

Product Group: Data Logging with the DSU, CBR Load Frames, Marshall Load Frames, Triaxial Load Frames, Data Logging with the DSU

Compact bench mounting load frame designed for performing laboratory CBR, unconfined compression, Quick Undrained Triaxial and Marshall Stability Tests. Has a variable speed of 0.5 to 50.8mm per minute and features rapid approach of platen.

Standards

EN 12697-34, BS 598, BS 1377, BS 1924, ASTM D1883, EN 12697-23, EN 12697-24, EN 13286-47, AASHTO T193, ASTM D2850, ASTM D4767, AASHTO T296, AASHTO T297, ASTM D6927

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Specification

Dimensions (I x w x h)	550 x 400 x 1470 mm
Max vertical clearance	800 mm
Horizontal clearance	265 mm
Platen diameter	133 mm
Platen travel	100 mm
Platen speed range	0.5 to 50.8 mm/min
Rapid approach speed	40 mm/min
Weight kg	100, (shipping 113 kg)

Accessories



50kN Clamped Boss Load Ring

Code: 78-0860







50kN S-type Load Cell

Code: 27-1559



Bracket and Adaptor. Dual Purpose Mounting Bracket for CBR Penetration Gauges EL24-9184/EL24-9186

Code: 24-9188



Cbr Penetration Piston (Adjustable).

Code: 24-9183



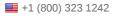
CBR Penetration Transducer 50mm Travel Fitted with 5 Pin Din Plug.

Code: 27-1705



Clamped Boss Load Ring - 10.0 kN

Code: 78-0460











Clamped Boss Load Ring - 2.0 kN

Code: 78-0060



Clamped Boss Load Ring - 28.0 kN

Code: 78-0760



Clamped Boss Load Ring - 3.0 kN Code: 78-0160



Clamped Boss Load Ring - 4.5 kN Code: 78-0260



Penetration Dial Gauge BS

Code: 24-9186



Penetration Piston Code: 24-9182







Penetration/Swell Dial Gauge ASTM.

Code: 24-9184

Alternatives



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

Code: 24-9150/06



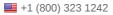
Cbr-Test 50 Machine 50kN Capacity BS and ASTM Supplied with Stabilising Bar.

Code: 24-9150/01



Digital Tritest 50 Load Frame

Code: 25-3518/01





Breaking Head (Marshall)

meter.

Code: 45-6850 Product Group: Accessories for the Marshall test Complete with gauge disc. Supplied without flow

Standards EN 12697-34

Accessories



250 Asphalt Probe Code: 47-0202/10

30 L Heating Bath with Led Display Cover

Code: 45-6550/01









50kN S-type Load Cell

Code: 27-1559

Alternatives



250 Asphalt Probe Code: 47-0202/10



30 L Heating Bath with Led Display Cover

Code: 45-6550/01



50kN S-type Load Cell

Code: 27-1559







Flow Transducer

Code: 45-6820/11 Product Group: Electronic Instrumentation, Electronic Instrumentation, Electronic Instrumentation

Pre-calibrated, for use with 45-6850 Breaking Head.

Standards EN 12697-34

Further Information

NOT AVAILABLE FOR SALE IN THE USA







50kN S-type Load Cell

Code: 27-1559 Product Group: Load Measurement, Electronic Instrumentation, 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

Accessories

Breaking Head (Marshall)

Code: 45-6850

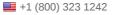




S-Type Load Cell 5 kN.for Triaxial Tests. Fitted with 5 Pin Din Plug.

Code: 27-1551

Alternatives









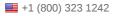
Breaking Head (Marshall)

Code: 45-6850



S-Type Load Cell 5 kN.for Triaxial Tests. Fitted with 5 Pin Din Plug.

Code: 27-1551





DSU Electronic Readout and Control System 110 V AC 60 Hz

Code: 27-1300/02

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/NTRmZS9UaGUgTkVXIE RTVSBVU0EucGRm]

 Download the full DS7.2 geotechnical software brochure here [/Page/catalogue-download/NTRmZS9OZXcgRFM3IF NvZnR3YXJIIFVTQTY5LnBkZg==]

· 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

 \cdot LAN connection - software can be running anywhere on your server

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

The Data System Unit (DSU) is a versatile instrument designed to accommodate the general logging requirements of geotechnical and materials testing engineers. It's 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

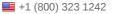
Code: 27-1300/12

Alternatives



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

Code: 27-1300/01









Marshall Test 50

Code: 45-6810/01



Marshall Test 50 Code: 45-6810/06







Flow Meter ASTM

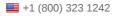
Code: 45-6890 Product Group: Accessories for the Marshall test

Dial gauge graduated 0.001 inches with 1 inch travel. Supplied with stem brake unit and flow meter pedestal.

Standards EN 12697-34

Further Information

NOT AVAILABLE FOR SALE IN THE USA







Attachment Required for 6000 g

Code: 45-9315/10 Product Group: Rice Test Vibrator, Rice Test Vibrator, Specific Gravity (Rice) Test with 6,000 gram Vacuum Pyknometer

Accessory

Standards EN 12697-5





Rice Test Vibrator

Code: 45-9315/01

Product Group: Rice Test Vibrator, Rice Test Vibrator

The Rice Test Vibrator is used with the 45-9300 6000 g Vacuum Pyknometer. Adjustable clamps hold the pyknometer securely to the base during vibration.

Standards
EN 12697-5, ASTM D2041, AASHTO T209

Further Information

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

Specification

Dimensions

Motor Weight Motor Dimensions

Weight

495 x 30 mm (height x base diameter) 1/20 hp, 1.6 amp 5.5 kg 1/20 h.p.; 3000 vpm; 1.6 amp. 19-1/2" (495 mm) h.; 12 " (30 mm) base diameter. Net 14.3 lbs. (6.5 kg).

Accessories









Attachment Required for 6000 g

Code: 45-9315/10

Alternatives



Rice Test Vibrator 115vAC, 50/60 Hz

Code: 45-9315/02











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





Vacuum Pyknometer Apparatus

Code: 45-9305/01

Product Group: Vacuum Pyknometer

- Large capacity design minimises segregation effects
- Lightweight polycarbonate construction
- Transparent top for visual observations

The Vacuum Pyknometer is a large capacity unit used in the Rice Test for determining the maximum specific gravity of bituminous paving mixtures.

The Pyknometer has a total volume of approximately 10 litres and will conveniently accept samples of 6000 grams to minimise segregation effects. The unit is constructed of lightweight polycarbonate, with the upper half being transparent for visual observation of the effects of the vacuum.

The Vacuum Pyknometer Apparatus consists of a 6000 g pyknometer, vacuum pump with control valves/gauges, water trap and connection tubing.

Standards EN 12697-5

Further Information

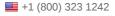
NOT AVAILABLE FOR SALE IN THE USA

Supplied complete with 6000 g pyknometer, vacuum pump with control valves/gauges, water trap and connection tubing. For 220 - 240 V AC, 50 Hz, 1ph.

Specification

273 x 406 mm (outside Dimensions diameter x height) Capacity Approx. 10 litres, 6000 g sample weight Water inlet valve; guick Connections disconnect for vacuum gauge and hose Weight 3.6 kg

Alternatives











Vacuum Pyknometer, 6000 g

Code: 45-9300





Vacuum Pyknometer, 6000 g

Code: 45-9300

Product Group: Vacuum Pyknometer, Vacuum Pyknometer (6,000 Gram), Specific Gravity (Rice) Test with 6,000 gram Vacuum Pyknometer

The Vacuum Pyknometer is a large capacity unit used in the rice test for determining the maximum specific gravity of bituminous paving mixtures. The Pyknometer has a transparent top for observation and a lightweight polycarbonate construction.

The Pyknometer has a total volume of 10 litres and will conveniently accept samples of 6000 grams to minimise segregation effects.

Standards EN 12697-5, ASTM D2041, AASHTO T209, AASHTO T283

Specification

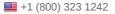
Capacity	Approximately 10 liters; 6,000 g (13 .2 lbs.) sample weight.
Construction	Lightweight polycarbonate with transparent upper half.
Gauge	2" (50.8 mm) diam., 30" x 0.5" Hg.
Aspirator	Plastic; 3/8" pipe thread (included).
Connections	Water inlet valve; quick disconnect for vacuum gauge and hose.
Dimensions	10-3/4" (273 mm) o.d. x 16" (406 mm) h.
Weight	Net 8 lbs. (3.6 kg).

Accessories



1/4" O.D Plastic Tubing

Code: 45-9301/14









Drierite Desiccant

Code: 45-9315/14



Filtering Kit

Code: 45-9301

Alternatives



Vacuum Pyknometer (2,000 gram) Code: 45-9310

Vacuum Pyknometer Apparatus

Code: 45-9305/01





Digital Asphalt Thermometer

Code: 47-0202 Product Group: Digital Asphalt Thermometer

Comprises a hand-held digital thermometer with an operating range of -99 to +1372 °C with a switchable resolution between 0.1 and 1.0 °C. Operates on a 9V battery and utilises K-type thermocouple sensors.

Standards

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

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Specification

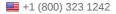
Range Resolution Weight -50 to 1000°C Switchable 0.1 or 1.0°C 300 g

Accessories



250 Asphalt Probe

Code: 47-0202/10









Breaking Head (Marshall)

Code: 45-6850



Vibrating Hammer Code: 47-0455/01

Alternatives



Marshall Test 50

Code: 45-6810/01



Marshall Test 50

Code: 45-6810/06





535 Asphalt Probe

Code: 47-0202/11 Product Group: Digital Asphalt Thermometer

Has a heavy-duty and reinforced needle probe. It is built with a t-shaped polyethylene handle and has a maximum tip temperature of 250°c and a 500 mm long probe.

Standards

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

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Specification

Max Reading	250°C
Length of probe	500 mm
Tip diameter (needle point)	6 mm





250 Asphalt Probe

Code: 47-0202/10 Product Group: Digital Asphalt Thermometer

Has a heavy-duty and reinforced needle probe. It is built with a t-shaped polyethylene handle and has a maximum tip temperature of 250°c and a 300 mm long probe.

Standards

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

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Specification

Max Reading	250°C
Length of probe	300 mm
Tip diameter (needle point)	6 mm

Accessories



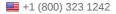
Breaking Head (Marshall)

Code: 45-6850



Vibrating Hammer

Code: 47-0455/01







Alternatives

Breaking Head (Marshall)

Code: 45-6850



Vibrating Hammer

Code: 47-0455/01



ELE



Buoyancy Balance

Code: 34-8100/09 Product Group: Hardened Concrete - Buoyancy Balance, Percentage Refusal Density (PRD)

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

Further Information **NOT AVAILABLE FOR SALE IN THE USA**

Accessories



Cradle

Code: 34-8105



www.ele.com +44 (0) 01525 249 200

ELE



Cradle

Code: 34-8105 Product Group: ELE Bouyancy Balance, Hardened Concrete - Buoyancy Balance, Percentage Refusal Density (PRD)

Standards

EN 12697-32, EN 13280-4, BS 598-104, EN 1097-6

Accessories



Vibrating Hammer Code: 47-0455/01

Alternatives



Vibrating Hammer Code: 47-0455/01

www.ele.com





Compact Core Drill

Code: 47-5175 Product Group: Compact Core Drill Machine

This compact and portable core drilling machine is designed to cut cores up to 150 mm diameter from concrete, asphalt and similar hard construction material.

The machine comprises a vertical support column which carries the drill head/motor assembly.

An integral water swivel is built into the drill head providing a 12 mm connection to an external water supply via 12 mm flexible hose (not supplied). The motor assembly comprises a 4 hp, 2-stroke petrol engine. Speeds of 800 rpm or 1200 rpm may be selected. A ball screw mechanism enables close control over drilling pressure and rapid return when drilling is completed.

The complete assembly is supplied on a rigid metal base frame with levelling facility and is suitable for vertically down drilling applications only.

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

Further Information

NOT AVAILABLE FOR SALE IN THE USA

Special Note: Requires a continuous clean water supply via a 12 mm flexible hose (not supplied).









Core Barrel 150 mm

Code: 47-5605 Product Group: Core Barrels

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

Further Information

NOT AVAILABLE FOR SALE IN THE USA









Core Barrel 100 mm

Code: 47-5565 Product Group: Core Barrels

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

Further Information

NOT AVAILABLE FOR SALE IN THE USA







100 Litre Drying Oven

Code: 78-1225/01 Product Group: Oven Drying Method, Oven Drying Method, Oven Drying Method

Standards BS 2648, BS 598, BS 1377, BS 1924

Further Information **NOT AVAILABLE FOR SALE IN THE USA**

Alternatives



150 Litre Drying Oven

Code: 78-1235/01



225 Litre Drying Oven

Code: 78-1250/01



425 Litre Drying Oven Code: 78-0135/01



50 Litre Drying Oven Code: 78-1215/01

