



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

This wishlist was generated on 10/05/2018, and contains the following Products:

45-3810/01

Rotatest 1500

45-3815/01

Rotatest 3000

45-3855/01

Reflux Extractor (4000 gram)

46-6100/01

Asphalt Binder Analyser 220-240V 50/60 Hz

46-4100/01

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

46-4150/01

Rolling Thin-Film Oven 220-240V 50/60 Hz

46-7003/01

Saybolt viscometer two place unit with furol and universal orifices

46-5010/01

Pressure Ageing Vessel

46-3310/01

Cleveland Flash Cup Apparatus

46-5290

Standard Penetrometer

46-5380/01

Automatic Penetrometer

46-4605

BS/EN Ring and Ball Apparatus

46-4825/01

Electrical Hotplate with Integral Magnetic Stirrer

45-9305/01

Vacuum Pyknometer Apparatus

45-9315/01

Rice Test Vibrator

47-0450

PRD Split Mould and Baseplate

47-0455/01

Vibrating Hammer

47-0202

Digital Asphalt Thermometer

47-5175

Compact Core Drill

42-6000

Pendulum Skid Resistance Tester

47-1460

Benkelman Beam

47-3025

Travelling Beam Device

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

45-6410

Compaction Pedestal BS 598

45-6460

Compaction Hammer

45-6600/01

AutoComp 100-A

45-6310/10

Compaction Mould Body

45-6550/01

30 L Heating Bath with Led Display Cover

45-6810/01

Marshall Test 50

45-6850

Breaking Head (Marshall)

45-6890

Flow Meter ASTM

78-0860

50kN Clamped Boss Load Ring

46-4120

Ductility Testing Machine



Rotatest 1500

Code: 45-3810/01

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. 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.

Standards

EN 12697-1, ASTM D2172, AASHTO T164

Further Information

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

1500 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: [45-3803](#)



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 1500 centrifuge extractor

Code: [45-3810/10](#)

Alternatives



Muffle Furnace

Code: [83-4170/01](#)



Rotatest 3000

Code: [45-3815/01](#)



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

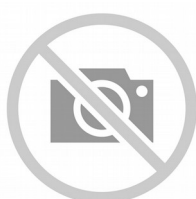
Code: [82-1000](#)



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](#)



Reflux Extractor (4000 gram)

Code: [45-3855/01](#)

Product Group: [Reflux Extraction](#)

- 4000 gram capacity
- Glass jar for visual observations
- Thermostatically controlled hot plate

The 4000 gram capacity of the Reflux Extractor provides higher accuracy for acceptance testing procedures. This extractor has two cone type screens holding 2000 grams each. The unit consists of two cone screens, water condenser, pyrex reflux jar, a thermostatically controlled hot plate and a supply of filter paper.

Standards

ASTM D2172, AASHTO T164

Further Information

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

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

Accessories



Filter Paper

Code: [45-3857](#)



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

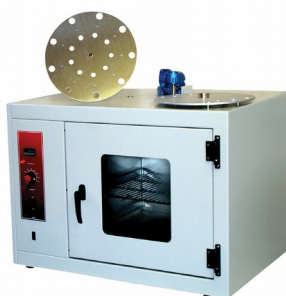
Product Sheet

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Type
Thermocouple type
Max power (W)

Bench-top
K
8000



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



Rolling Thin-Film Oven 220-240V 50/60 Hz

Code: 46-4150/01

Product Group: [Asphalt and Bitumen Ovens](#)

The Rolling Thin-Film Oven (RTFO) procedure provides simulated short term aged asphalt binder for physical property testing. Asphalt binder is exposed to elevated temperatures to simulate manufacturing and placement ageing. The RTFO also provides a quantitative measure of the volatiles lost during the ageing process.

The exterior is constructed from sheet steel finished in an easy clean powder coated paint and the interior chamber is made from stainless steel.

The control system comprises of a microprocessor digital controller and overheat thermostat with calibrated scale and tamper-proof lock.

Further Information

- Complies to the requirements of ASTM D2872
- Internal dimensions (mm): 380 high x 480 wide x 440 deep
- External dimensions (mm): 800 high x 710 wide x 660 deep (add 40mm for door handle)
- Double wall construction with high density thermal insulation
- Non-rusting grade 304 stainless steel interior
- Easy clean powder painted steel exterior in light grey (RAL 7035) textured finish
- Top mounted fan constructed with an air plenum as described in ASTM D2872
- Fitted with a squirrel-type fan blade for better uniformity of air and temperature distribution
- Equipped with air jet for blowing heating air into each bottle at its lowest point of travel
- Base mounted elements
- Vented to atmosphere
- Single front opening, side hinged door with positive quarter turn latching mechanism
- Double glazed window in door for viewing the test chamber

Top mounted controls comprise:

- Dual display microprocessor digital control
- Independent overheat thermostat
- Mains switch
- Flow meter to control air flow
- Indicator lamps
- 1500 watts
- Supplied with built-in 305mm diameter vertical circulator carriage for 8 sample containers
- Glass samples rotate at 15 rpm \pm 0.2rpm (glass containers supplied separately)
- Temperature is controlled and pre-set at 163°C \pm 1°C

Specification

Max Temp (°C)	163°C \pm 1°C (preset)
Dimensions: Internal (HxWxD)	380 x 480 x 440 mm

Product Sheet

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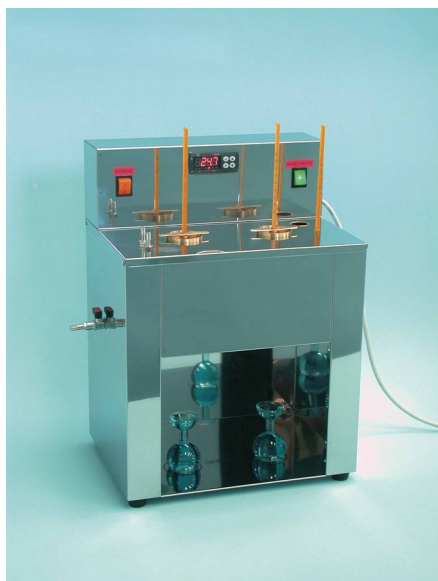
Dimensions: External (HxWxD)	800 x 710 x 660 mm
Insulation	Double wall
Internal material	304 stainless steel
Max power (W)	1500

Accessories



Glass Sample Container for 46-4150 pack of 8

Code: [46-4150/11](#)



Saybolt viscometer two place unit with furol and universal orifices

Code: 46-7003/01

Product Group: Saybolt-Furol Viscosity

Used to determine the viscosity of petroleum products at specified temperatures between 70 to 210 °F. Stainless steel made, the Saybolt viscometer is supplied complete with two interchangeable orifices "Furol" and "Universal", oil bath, electric heater with digital thermoregulator, stirrer, cooling coil, viscosity flask.

Stainless steel made, the Saybolt viscometer is supplied complete with two interchangeable orifices "Furol" and "Universal", oil bath, electric heater with digital thermoregulator, stirrer, cooling coil, viscosity flask.

Thermometers, filter funnel, withdrawal tube are not included and must be ordered separately.

The viscometer is equipped with a dual safety thermostat to prevent accidental over-heatings.

Specification

Power supply	230 V 1ph 50 Hz 500 W
Dimensions	270 x 270 x 550 mm
Weight	12 kg



Pressure Ageing Vessel

Code: [46-5010/01](#)

Product Group: [Pressure Ageing Vessel](#)

Pressure Aging Vessel (PAV) is designed to simulate in-service oxidative aging of asphalt binder by exposure to elevated temperatures in a pressurized environment

The system meets ASTM, AASHTO and EN 14769 requirements.

It includes a pressure relief valve and high-temperature thermal shut-down.

It allows remote operation capabilities, and allows the user to completely control the PAV.

Operating pressure range of 2.1 ± 0.1 mPa, and a temperature range of 80°C to 115°C, with resolution of 0.1°C.

Specification

Estimated Weight Kg	195
Dimensions mm (W x D x H)	710 x 460 x 760



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



Standard Penetrometer

Code: [46-5290](#)

Product Group: [Asphalt Penetrometer](#), [Bitumen Penetration Test](#), [Penetration Test](#)

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 Weight	Manual mechanism. Net 18 lbs. (8.2 kg).

Accessories



ASTM (NIST Certified) Penetration Needle

Code: [46-5297](#)



Constant Temperature Bath 21 - 56°C

Code: [46-5500/01](#)



Penetration Needle

Code: [46-5360/10](#)



Penetration Tin

Code: [46-5860](#)



Penetration Tin

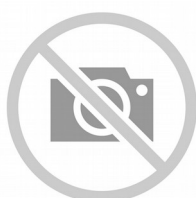
Code: [46-5861](#)



Transfer Dish

Code: [46-5800](#)

Spares/Consumables



ASTM (Non-Certified) Penetration Needle

Code: [46-5290/10](#)



Automatic Penetrometer

Code: [46-5380/01](#)

Product Group: [Penetration Test](#)

- Fully automatic
- Microprocessor control
- Optoelectronic penetration direction

The unit is compact with an anodised aluminium baseplate, levelling screws, spirit level, centring guide and optoelectronic detection of depth penetration. Penetration depth is displayed in increments of 0.01 mm.

Supplied without penetration needles.

Specification

Dimensions	260 x 320 x 540 mm
Weight	23 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



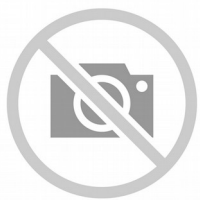
Electrical Hotplate with Integral Magnetic Stirrer

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. Viscosity	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 6 1/4"W x 3"H
Weight	6lbs



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

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

Alternatives

Product Sheet

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Vacuum Pyknometer, 6000 g

Code: [45-9300](#)



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

Accessories



6,000 gr. Vacuum Pycnometer Attachment

Code: [45-9315/10](#)

Alternatives



Rice Test Vibrator 115vAC, 50/60 Hz

Code: [45-9315/02](#)



PRD Split Mould and Baseplate

Code: 47-0450

Product Group: Percentage Refusal Density (PRD)

Standards

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

Further Information

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

Accessories



300 mm Shank

Code: 47-0480



Vibrating Hammer

Code: 47-0455/01



Vibrating Hammer

Code: [47-0455/01](#)

Product Group: [Percentage Refusal Density \(PRD\)](#)

Accessory - suitable for compacting asphalt samples.

Standards

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

Further Information

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

Accessories



250 Asphalt Probe

Code: [47-0202/10](#)



300 mm Shank

Code: [47-0480](#)



Cradle

Code: [34-8105](#)



Engineer's Steel Rule

Code: [81-0805](#)



Filter Paper - Medium

Code: [82-7901](#)



Paraffin Wax

Code: [82-7031](#)



Spatula 200 mm

Code: [81-0140](#)



Vernier Caliper (LCD) Range 0 to 200mm X 0.01mm

Code: [81-0590](#)

Alternatives



250 Asphalt Probe

Code: [47-0202/10](#)



300 mm Shank

Code: [47-0480](#)



Cradle

Code: [34-8105](#)



Engineer's Steel Rule

Code: [81-0805](#)



Filter Paper - Medium

Code: [82-7901](#)



Paraffin Wax

Code: [82-7031](#)



Spatula 200 mm

Code: [81-0140](#)



Vernier Caliper (LCD) Range 0 to 200mm X 0.01mm

Code: [81-0590](#)



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

Accessories



250 Asphalt Probe

Code: [47-0202/10](#)



Breaking Head (Marshall)

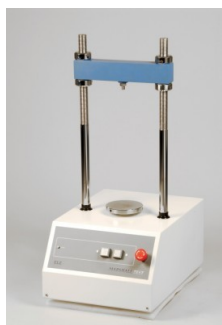
Code: 45-6850



Vibrating Hammer

Code: 47-0455/01

Alternatives



Marshall Test 50

Code: 45-6810/01



Marshall Test 50

Code: 45-6810/06



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).



Pendulum Skid Resistance Tester

Code: 42-6000

Product Group: [Skid Resistance Testing](#), [Skid Resistance Testing](#)

The Pendulum Skid Resistance Tester was originally designed in the 1940s in the USA and further developed in the 1960s at the TRL (Transport Research Laboratory) for the testing of road surfaces.

The device measures the frictional resistance between a rubber slider mounted on the end of a pendulum arm and the surface to be tested. This provides road engineers with a method of checking the resistance of wet and dry surfaces to slipping and skidding, both in the lab and in situ.

It operates by a pendulum rotating about a spindle which is attached to a vertical pillar. At the end of the tubular arm, a head of known mass is fitted with a rubber slider. The pendulum is released from a horizontal position so that it strikes the sample surface at a constant speed. The distance travelled by the head after hitting the sample is determined by the friction of the sample surface.

Standards

EN 1097-8:2009, EN 1436:1997, EN 13036-4:2003, ASTM E303-93, BS 812 Pt 114, BS 6077 Pt 1, BS 7044, BS 7188, BS 8204, BS 7976

Further Information

Applications:

- Assessment of surface friction and skid resistance properties
- Testing of aggregates in the PSV (Polished Stone Value) test
- Testing of new road surface materials
- Testing of pedestrian pavements
- RTA (road traffic accidents)
- Litigation investigations

Features:

- Designed for lab and on site road surface testing
- Factory calibrated to EN1097-8
- Low friction arm, and lightweight pointer
- Supplied with 'F' scale for use with small slider set for 76mm slide length (PSV test)
- Highly repeatable
- Supplied with carrying case

Specification

Dimensions (WxDxH)	695 x 295 x 695 mm
Volume	0.15m3
Weight	30 kg

Accessories



1.25" Rubber Mounted PSV Slider for 42-6000

Code: [42-6000/11](#)



3.00" Rubber Mounted CEN Slider for 42-6000

Code: [42-6000/14](#)



3.00" Rubber Mounted Four S (96) Slider for 42-6000

Code: [42-6000/13](#)



3.00" Rubber Mounted TRL (55) Slider for 42-6000

Code: [42-6000/12](#)



Base Plate for Skid Resistance Tester for lab testing

Code: [42-6200](#)



First traceable calibration for 42-6000

Code: [42-6000/15](#)



Set of 3 Spreader Feet for Skid Resistance Tester for in-situ testing

Code: [42-6000/10](#)



Benkelman Beam

Code: 47-1460
Product Group: Benkelman Beam, Benkelman Beam

Standards
AASHTO T256

Further Information
Complete with Dial Gauge 25 mm tavel x 0.02 mm divisions.

Specification

Dimensions: Main Body (length), Arm (telescopic) extended, Operating length fully extended	1397 mm, 2400 mm, 3700 mm
Beam fulcrum ratio	2:1
Weight	15.9 kg
Main Body	55 " (1,397 mm) long, black finish aluminum.
Probe Beam	Aluminum, 8 ft. (2.4 m) long, telescopes into case for storage.
Probe Fulcrum	Ball pivot bearing, gives lever ratio of 2:1.
Vibrator System	Operating switch mounted on top of instrument section (requires 4 "D" size batteries).
Dial Indicators	Compensated for direct reading (not included).
Leveling Wheel	Adjusts beams to proper elevation.
Open Length	12 ft. (3.7 m) l.
Weight	Net 29 lbs. (13.2 kg).

Accessories



Vertical Dial Indicator 1" range x 0.002" divisions

Code: [47-1460/12](#)



Vertical Dial Indicator 25 mm range x 0.02 mm divisions

Code: [47-1460/14](#)



Travelling Beam Device

Code: [47-3025](#)

Product Group: [Travelling Beam Device](#)

Travelling Beam Device with Autographic Recorder
Supplied Without Recorder Charts.

The 3 metre long Travelling Beam Device is used to check for any irregularities in both concrete and bituminous road surfaces. A sensing unit comprising a wheel connected to an indicator provides a magnification of 4:1.

Deviation of the surface from a straight-line is shown on a scale calibrated in increments of 2 mm up to 10 mm and 5 mm up to 25 mm. A dye-marker is fitted which may be used to identify suspect areas. Outrigger wheels provide mobility on site. The device is supplied as three sub-assemblies which are quickly assembled on site. The Travelling Beam is supplied fitted with an autographic recorder providing a permanent record of the surface profile. Records up to 1 kilometre can be recorded on the special chart paper rolls used.

Standards

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

Further Information

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

Accessories



Charts for Autographic Recorder Pack of 10 Rolls Complete with 10 Fibre-Tipped Pens.

Code: [47-3130](#)

Spares/Consumables



Fibre-tipped Pen

Code: [47-3131](#)



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****



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

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



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	3-7/8" (98 mm) diam.
Hammer	10 lb. (4.54 kg).
Drop	18" (457 mm).
Construction	Machined steel; cast aluminum handle.
Weight	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

Complies to BS 598-107

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

Product Sheet

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



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

Accessories

Compaction Mould

Code: [45-6310](#)



Digital Hotplate

Code: [78-3104/01](#)



Paper Discs

Code: [45-6462](#)



Sample Tray - 306 x 306 x 38 mm

Code: [81-4020](#)



Alternatives

Product Sheet

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Autocomp 100-A

Code: [45-6600/06](#)



Compaction Mould Body

Code: [45-6310/10](#)

Product Group: [Accessories for manual and automatic compaction](#)

Accepts baseplate and filling/extraction collar of 45-6310 compaction mould.

Standards

EN 12697-30

Further Information

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

Accessories

Steel Block

Code: [45-6463](#)





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)

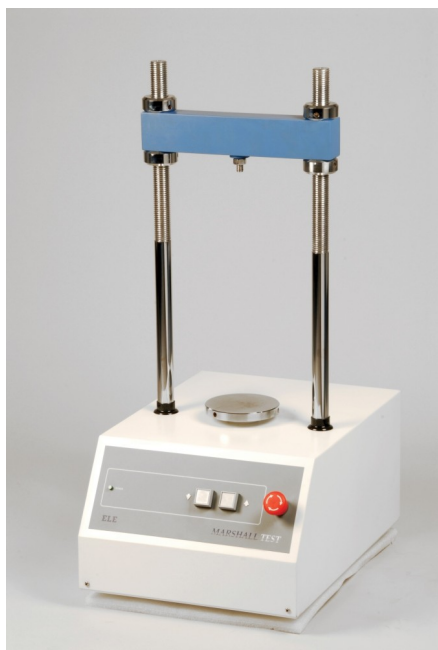
Code: 45-6850

Alternatives



Breaking Head (Marshall)

Code: 45-6850



Marshall Test 50

Code: [45-6810/01](#)

Product Group: [Marshall Load Frames](#)

- Geared screwjack and motor drive
- Precise speed
- Internal limit switch for both directions of travel
- Easy to use controls

This bench-mounting mechanical load frame is ruggedly constructed to encompass the strain and loads involved with the test. The unit is compact in size and can be quickly installed on a bench top, requiring only a power point. It has been designed for simple operation, is easy to clean and requires minimum maintenance.

Standards

EN 12697-34

Further Information

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

Load frame, 50 kN capacity. Supplied without Breaking Head. For 220 - 240 V AC, 50 Hz, 1 ph.

Accessories



250 Asphalt Probe

Code: [47-0202/10](#)



30 L Heating Bath with Led Display Cover

Code: [45-6550/01](#)



50kN Clamped Boss Load Ring

Code: 78-0860



50kN S-type Load Cell

Code: 27-1559



Breaking Head (Marshall)

Code: 45-6850



Flow Meter BS/EN

Code: 45-6880

Alternatives



Digital Asphalt Thermometer

Code: 47-0202



DSU Electronic Readout and Control System 110 V AC 60 Hz

Code: 27-1300/02



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

Code: [27-1300/01](#)



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

Code: [23-4200](#)



Breaking Head (Marshall)

Code: [45-6850](#)

Product Group: [Accessories for the Marshall test](#)

Complete with gauge disc. Supplied without flow meter.

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 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****



50kN Clamped Boss Load Ring

Code: 78-0860

Product Group: Clamped Boss Load Rings, Digital Tritest 50 Load Frame, Load Measurement, Proving Rings, Accessories for the Marshall test, Accessories for the Marshall Test, CBR-Test 50 Machine, Load Measurement, CBR Loading Press, Hand-Operated, Force measurement

Calibrated in compression.

Standards

EN 12697-34

Specification

Capacity - kN	50
Capacity - kgf	5000
Capacity - lbf	11,200
Typical Design Sensitivity - kN/div	45.5
Typical Design Sensitivity - Kgf/div	4.54
Typical Design Sensitivity - lbf/div	10.18
Overall Height	9.76" (248 mm)
Approx Weight	6.35 kg

Accessories



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](#)



Digital Proving Ring, 11,200 lbs (50.0 kN)

Code: [78-0864](#)

Spares/Consumables



Spare Dial Indicator for Load Rings

Code: [78-5461](#)

Alternatives



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](#)



Digital Proving Ring, 11,200 lbs (50.0 kN)

Code: [78-0864](#)



Ductility Testing Machine

Code: 46-4120

Product Group: Ductility Testing

The Ductility Testing Machine is used to determine the ductility of bituminous materials in a briquette mould by measuring the breaking elongation at a constant speed of 50 mm/min. It is designed for testing 3 specimens simultaneously. The Internal tank is made of stainless steel. The bath is fitted with an immersion heater in order to obtain (in normal conditions), the 25°C test temperature.

The Ductility Testing Machine comprises of speed control and water circulator to maintain the homogenous water temperature.

Elongation measurement through the motor encoder.

3 simultaneous load measurements with 18-bit resolution.

Speed control with servo AC motor between 0.01 to 100 mm/min.

Ethernet connection for computer interface.

Has 3 load cells with an accuracy of $\pm 0.1N$, with a maximum capacity of 300 N.

Failure conditions can be downloaded to the unit.

Complies with EN13398, ASTM D113, ASTM D6084 and AASHTO T51 standards.

Specification

Dimensions	300 x 1850 x 550 mm
Weight	80kg
Watts	1000 W
Power supply	220V 50-60Hz 1Ph