



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

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78-0260

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24-9070

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24-9182

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24-9184

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24-9228

ASTM Cbr Mould Complete with Collar & Perforated Base

24-9238

ASTM Spacing Disc.

24-9240

Filter Screen 150mm Dia with 0.15mm Mesh.



Trase Soil Moisture Analyser

Code: 514-160/01

Product Group: TDR

The Trase Soil Moisture Analyser is a self-contained, portable unit designed for field use for fast and accurate measurements of moisture in various materials (for example soil, cement, powders, grains etc) using Time Domain Reflectometry (TDR).

Measurements are completed within 15 seconds, and can be viewed immediately or stored for later use. The data is displayed digitally on screen along with the TDR waveform. The comprehensive keyboard enables the operator to set the date and time, define the units of measurement, designate and label the memory storage area in use, and define the protocols necessary to interface the instrument with computer hardware for data transfer.

There is also a comprehensive help function available. The data screen provides a database listing of current readings and graphs, and provides various methods of managing the data. The search feature automatically sorts through thousands of readings and hundreds of graphs to locate the desired information to be displayed or reviewed. The graph screen is a powerful tool for soil physics investigation e.g. infiltration studies, salinity and many experimental programmes.

Two independently, key pad controlled, vertical line markers allow precise time measurements between two points on the TDR waveform. Real time and difference in time in nanoseconds is constantly displayed to the two vertical line markers. A computer can be connected via the RS-232 port to enable remote operation of the unit or to download stored graphs and data.

A multiplexer is available which allows measurements to be made automatically from up to 256 different locations with one Trase unit. The Trase also processes an auto-logging capability with reading interval range from one per minute to one per day.

Trase system comes supplied with; Trase analyser, waveguide connector, 15cm long waveguide set, buriable waveguide (consisting of 2x 200mm long parallel stainless steel tubes with 1.8 coaxial lead), 6AH power pack, and battery charging transformer comes with a 150mm wave guide set, power pack, charging transformer and full operating instructions.

Specification

Product Sheet

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Dimensions	230 x 320 x 410 (depth x width x height)
Measuring range	0-100% volumetric moisture content
Measuring accuracy	+/- 2% or better
Operating temperature	0-50 °C
Power supply (supplied)	2 x 6 amp hr, sealed electrolyte batteries
Recharge time	9 hours
Auxillary power input	18-24V AC or DC, 2 amp, for battery recharge or operation from mains
Operating temperature	0- 45°C
Memory	256Kb, capacity for 170+ graphs/5400 readings
Graphic display	128 x 256 dot black lit LCD
Weight	10.43 kg

Accessories



20 m cable extension

Code: [514-168](#)



Alignment Block

Code: [514-169](#)



Insertion tool

Code: [514-167](#)



Wave Guides 300mm

Code: [514-162](#)



Wave Guides 600mm

Code: [514-164](#)



Wave Guides 700mm

Code: [514-165](#)

Spares/Consumables



Buriable wave guide

Code: [514-166](#)



Wave Guide 150mm

Code: [514-160/10](#)



Guelph Permeameter Supplied Complete with Extension Kit.

Code: 25-0650

Product Group: Guelph Permeameter, Guelph Permeameter

- Lightweight and portable
- Robust construction
- Requires only 2.5 litres of water
- Results usually within 2 hours

The Guelph Permeameter is used to obtain accurate measurements of hydraulic conductivity, soil sorptivity and soil matrix flux potential. These three factors govern how liquids will move through an unsaturated soil profile.

Recent significant advances in both the theoretical and practical techniques of measuring soil hydraulic conductivity have been made by the University of Guelph, Canada. This has resulted in the development of the Guelph Permeameter, utilising the Constant Head Well principle.

Standards

ASTM D5126

Further Information

Guelph Permeameter Set Includes:-

- 1 Field Tripod
- 1 Well Auger
- 1 Well Tripod
- 1 Preparation Tool
- 1 Hand Pump
- 1 Extension Kit (extends depth by 800 mm)
- 1 Collapsible Water Container
- 1 Set of Instructions and Carrying Case

Specification

Cell	Plated seamless tube 100 mm diameter x 130 mm height
Capacity	3.18 Litres
Base	Porous plate with three tie rods
Top plate	Machined to accept smaller tubes
Net Weight	13.6 kg
Overall Weight	111 kg
Permeameter	High impact polycarbonate, molded elastomers.

Product Sheet

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Auger	2" (50.8 mm) diam.; machined steel.
Carrying Case	Die-cut foam for parts storage.
Test Time	1/2 – 2 hours.
Test Depth	15 to 75 cm (0.5 to 2.5 ft).
Hydraulic Conductivity Range	10-4 to 10-8 m/sec (10-2 to 10-6 cm/sec).
Weight	Net 30 lbs. (13 .6 kg).

Accessories



Permeameter Extension Kit

Code: [25-0655](#)



Muffle Furnace

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

Product Group: [Furnaces](#), [Loss-on-Ignition](#),
[Loss-on-Ignition](#)

Standards

EN 196-2, EN 459-2, EN 13454-2, BS 1016-4, ISO 344, ISO 1171, ASTM D2361, ASTM D2795, ASTM D3714

Specification

External Dimensions (l x w x h)	545 x 385 x 400 mm
Work chamber dimensions (l x w x h)	300 x 200 x 120 mm
Internal volume	6.9 litres
Maximum temperature	1200 °C
Electrical supply	220 – 240 V AC, 50 - 60 Hz, 1 ph
Power supply	3500 W
Weight	130 kg

Spares/Consumables



Controller, for use in 83-4170/01

Code: [83-4170/11](#)



Element heating for use in 83-4170

Code: [83-4170/14](#)



Element/Chamber complete, heating, for use in 83-4170/01

Code: [83-4170/12](#)



Refractory brick for 83-4170/01

Code: [83-4170/13](#)



Thermostat, KGrade, 370 long, dia 2.5, for 83-4170/01

Code: [83-4170/10](#)

Alternatives



Heat of Hydration Apparatus

Code: [38-4600/06](#)



Heat of Hydration Apparatus

Code: [38-4600/01](#)



Rotatest 1500

Code: [45-3810/01](#)



Rotatest 3000

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



Distilled Water Still

Code: [82-8020/01](#)

Product Group: [Distilled Water Still](#)

Further Information

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

Specification

Dimensions (l x w x h)	590 x 530 x 940 mm
Boiling chamber	Glass
Condenser	Borosilicate glass
Output	3.5 litres/hr when permanently connected to water supply
Electrical supply	220 – 240 V AC, 50 - 60 Hz, 1 ph
Rated power	2.75 kW
Weight	12 kg



Digestion Unit 8 place, semi-auto c/w block, rack, heat shield, exhaust,

Code: [525-355/01](#)

Product Group: [Kjedahl apparatus](#)

Supplied with digestion block, carrying rack with heat shield, exhaust system, two-tier console, instruction manual and 8 digestion tubes, 250 ml, 300 x 42 mm.

Further Information

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

Spares/Consumables



Digestion Tube Macro 250MI

Code: [525-355/10](#)



Automatic distillation unit 220-240V 50/60Hz 1ph

Code: [525-375/01](#)

Product Group: [Kjedahl apparatus](#)

- Fully automatic steam generator.
- Electronic control of steam pressure and water level.
- Programmable, utilising microprocessor control.

This distillation unit is fully automatic with full microprocessor control. The operator has only to insert the digestion tube and the distillate receiver vessel.

The control display is a back-lit LCD with 2 x 16 character lines. Information is entered via the touch sensitive keypad which has numerical characters for entering distillation program parameters, and manual function keys to activate the chemical addition pumps and for programming.

There are 10 programmes with 0-8 for Kjeldahl and associated distillations and 9 for alternative distillation work. Each of the programmes have the following variables entered in sequence. All the programme steps are controlled by time with chemical addition pumps having a known flow rate of 13 ml/second.

The unit is divided into 4 chambers, distillation, instrumentation, steam generation and chemical pumps, for maximum protection of the various components. All the functions of the unit are monitored and errors are displayed on the character display.

This unit has a manual end point titration.

Further Information

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

Accessories



Storage tanks for automatic distillation units-set of 3

Code: [525-376](#)



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.

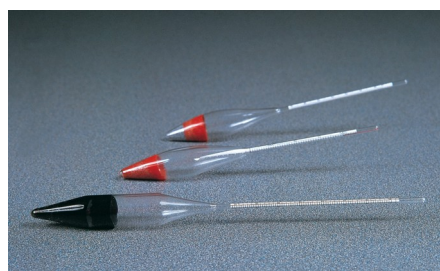
The shaker is ideal for laboratory or on site use. It is robust, compact and sufficiently lightweight to be portable. The separate digital microprocessor controlled console unit incorporates a keypad for setting the sieving program and is isolated from any effects of vibration from the shaker.

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.



Soil Hydrometer Type 152H ASTM/Aashto Graduated -5 to +60G/Litre.

Code: [24-4640](#)

Product Group: [ASTM Soil Hydrometers, Soil Hydrometers](#)

Graduated -5 to +60 g/litre.

Standards

BS 1377, EN 1997-2, ASTM D422, ASTM E100, AASHTO T88

Specification

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

Alternatives



Soil Hydrometer BS EN DD ENV graduated 0.995 to 1.030 g/ml

Code: [24-4620](#)



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

Code: [24-4650](#)



5-Bar Pressure Plate Extractor.

Code: 532-100

Product Group: Pressure plate extractors

Used to determine - available water capacity, water retentivity, hydraulic conductivity and field capacity.

Applications include - soil classification and survey, optimisation of irrigation and drainage, calibration of soil water and measuring apparatus for field use.

The pressure plate is used to determine soil water retention and suctions greater than 0.4 bar. The apparatus consists of strongly built metal chambers containing one or more ceramic plates, on to which uniform soil samples are placed. Having attained maximum moisture retention (field capacity) the samples within the cells are then subjected to controlled positive air pressures and water is gradually removed. By careful control of pressure, the various equilibrium conditions of pressure and soil water tension or suction are obtained.

The air pressure is provided either from a compressor, compressed air bottle or nitrogen bottle. The air pressure source must always be routed via a pressure regulation manifold.

ELE can supply three types of pressure plate extraction, which cover the pressure range 0.1-15 bar.

Specification

Capacity	4 pressure plate cells. (Up to 48 samples)
Pressure	0.1-5 bar extractor (75psi)
Closure	6 bolts with wing nuts; O-ring seal on lid
Support Clips	Stainless steel, adjustable
Outflow	4 tube assemblies with 3 plug bolts; screw into side wall
Dimensions	30cm dia x 22cm deep
Weight	10 kg

Accessories



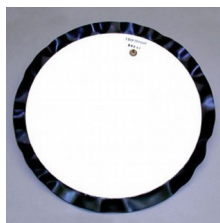
1-Bar Pressure Plate Cell

Code: [532-104](#)



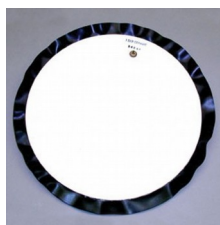
15 bar ceramic cup

Code: [532-124](#)



3-Bar Pressure Plate Cell

Code: [532-106](#)



5-Bar Pressure Plate Cell

Code: [532-107](#)



Electrical lead through

Code: [532-126](#)



Soil Sample Retaining Rings Pack of 12.

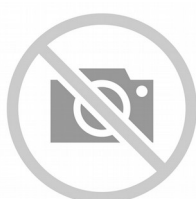
Code: [532-108](#)

Spares/Consumables



Hose Manifold to 5 Bar Extractor.

Code: [532-111](#)



O-Ring Lid Seal Pack of 2

Code: [532-100/10](#)



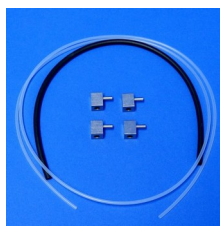
Outflow tube assembly with seal

Code: [532-120/14](#)



Plug bolts with seal

Code: [532-120/16](#)



Right angle outflow adapter kit

Code: [532-120/12](#)



15-Bar Pressure Plate Cell.

Code: [532-120/10](#)

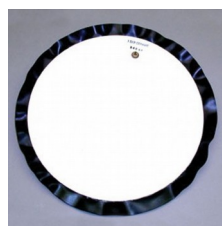
Product Group: [Pressure plate extractors](#)

Accessories



1-Bar Pressure Plate Cell

Code: [532-104](#)



3-Bar Pressure Plate Cell

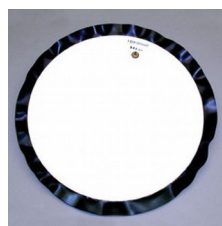
Code: [532-106](#)

Alternatives



1-Bar Pressure Plate Cell

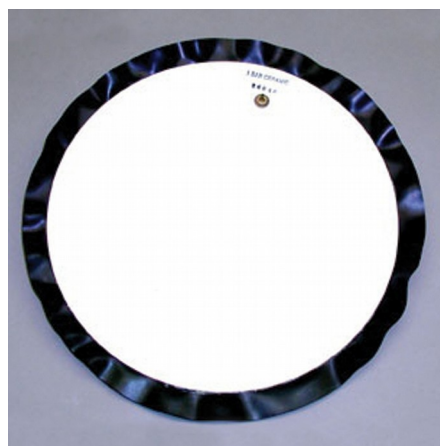
Code: [532-104](#)



3-Bar Pressure Plate Cell

Code: [532-106](#)





5-Bar Pressure Plate Cell

Code: [532-107](#)

Product Group: [Pressure plate extractors](#)

Developed from a complex mixture of ball clays into a fired ceramic body. Good porosity and good hydrologic flow capability. The material is very hard and brownish-white in colour, is not recommended for fluid sampling. Recommended for specialised applications where the pressure differentials are under 5 Bar (72.5 psi). Typical bubbling pressure: 80 psi. Effective pore size: 0.5 micron. Hydraulic conductivity: .000000121 cm/sec. Approximate porosity: 31% by vol. Flow through.

Specification

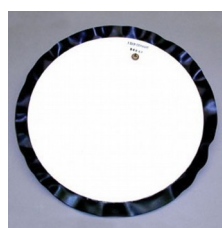
Weight	1 kg
Diameter	27.30 cm

Accessories



1-Bar Pressure Plate Cell

Code: [532-104](#)



3-Bar Pressure Plate Cell

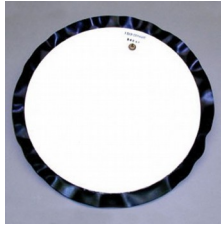
Code: [532-106](#)

Alternatives



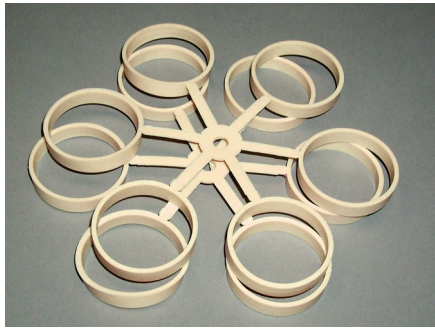
1-Bar Pressure Plate Cell

Code: [532-104](#)



3-Bar Pressure Plate Cell

Code: [532-106](#)



Soil Sample Retaining Rings Pack of 12.

Code: [532-108](#)

Product Group: [Pressure plate extractors](#)



Combination Manifold.

Code: [532-136](#)

Product Group: [Pressure plate extractors](#)

This is required to regulate gas pressure source in pressure plate extraction systems.

There are 3 types available to cover all requirements and they enable precise control of pressure.

Pressure manifolds are an essential component in pressure plate extraction systems. They are required to control the air pressure, from a compressor or compressed air vessel, into the extractor. ELE can supply three different types to cover all requirements.

Low pressure manifold: for 0-5 bar systems.

Low to high pressure manifold: for 1-15 bar systems.

Combination manifold: for both 0-5 and 1-15 bar systems running in parallel.

The combination manifold combines both the low pressure and low to high pressure manifolds.

Specification

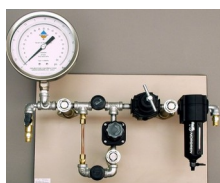
Pressure Range	1 to 75 psi
Weight	12 kg
Dimensions	685 x 483 x 330 mm

Alternatives



Low Pressure Manifold

Code: [532-110](#)



Low to high pressure manifold.

Code: [532-128](#)



Hose Manifold to 5 Bar Extractor.

Code: [532-111](#)

Product Group: [Pressure plate extractors](#)



Hose Manifold to 15 Bar Extractor.

Code: [532-112](#)

Product Group: [Pressure plate extractors](#)



Connection Set for 532-180 Series.

Code: [532-182](#)

Product Group: [Pressure plate extractors](#)



PM Compressor 220-240V 50Hz 1Ph.

Code: [532-180/01](#)

Product Group: [Pressure plate extractors](#)

IDEAL FOR PRESSURE PLATE EXTRACTION SYSTEMS.

ELECTRICALLY POWERED AND FULLY CE ACCREDITED

CONFORMS TO EC DIRECTIVE 98/37/CE

This unit provides compressed air for all ELE's pressure plate apparatus. The compressor is designed for sustained, continuous operation and provides up to 20 bar operating pressure.

These compressors are compact and can be transported easily by one person. The compressor consists of motor and block, which is cast in one piece. This improves heat dissipation considerably. Pistons, piston rings, con-rod, bearings and crank flange have been designed with efficiency and durability in mind. Valves in the compressor block are machined in non-corrosive stainless steel and the valve reeds are fitted with heat dissipating lift limiters. This ensures air-tight valves and longer life.

The robust electric motor features strengthened bearings and a generously-sized winding. This lengthens motor life considerably. The motors start without problem even if the supply voltage is low.

Every compressor is filled with special, temperature resistant top performance lubricating fluid. The result is almost no oil carbon deposits on the valves.

This compressor must be used in conjunction with a manifold assembly if intended for use in pressure plate extraction systems.

Specification

Max. gauge working pressure	20 bar
Weight	29.5 kg
Dimensions	525 x 260 x 430 mm
Air receiver capacity	4 litres
Highest sound pressure value	75dB when tested to DIN 45635
Theoretical inlet capacity	160 l/ min
Free air delivered	20 bar (at 8 bar working pressure)
No. of cylinders	1
Speed	2850 rpm

Product Sheet

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Oil capacity	0.13 l
Oil top-up quantity	0.05 l
Max. mains fusing (slowblow or gl glass)	16 amp
Max. rated current	6.2 amp
Rated power	1.1 kW
Rated speed	2850 rpm
Protection class	IP54
Max. cut-in frequency	30 times / hour

Accessories



Connection Set for 532-180 Series.

Code: [532-182](#)



Pocket Penetrometer.

Code: [29-3729](#)

Product Group: [In-situ Testing](#), [Pocket Penetrometer](#), [Plate Bearing Apparatus](#)

- Direct-reading scale in tons/sq. ft. and kg/sq. cm.
- Ground and polished stainless steel loading piston.
- Calibrated spring and penetrometer body plated for rust resistance and long life.
- Convenient belt-loop style carrying case.
- Optional Adapter Foot for testing very soft materials.

The Pocket Penetrometer was originally developed for use by field personnel in checking visual classification of soils. Data was compiled on several thousand unconfined compressive strength tests of silty clays and clayey soils against the penetrometer readings to develop the scale.

Further Information

IMPORTANT: the readings obtained from the pocket penetrometer do not replace laboratory test results due to the fact that a small area penetration test is inherently liable to give misleading results. The instrument should not be used for obtaining foundation design data.

Specification

Range	0.25 to 4.5 tons/sq. ft. (kg/sq. cm).
Scale Divisions	0.25 tons/sq. ft. (kg/sq. cm).
Load Piston	1/4" (6 mm) diam.; stainless steel.
Carrying Case	Canvas; belt-loop style.
Dimensions	3/4" diam. x 6-3/8" l. (19 x 162 mm).
Weight	Net 7 oz. (198 g).

Accessories



Adaptor Foot

Code: [29-3729/10](#)

Alternatives



C.O.E Cone Penetrometer

Code: [29-3741](#)



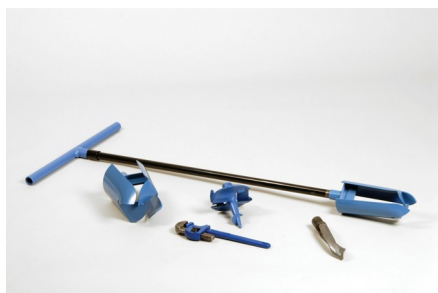
Proctor & Mortar Penetrometer Set

Code: [29-3935](#)



Proving Ring Penetrometer

Code: [29-3739](#)



100mm Dia Soil Auger Head

Code: [23-1501](#)

Product Group: [Soil and Gravel Auger Heads](#)

Constructed of heavy-duty steel plates; partly interlocked at the cutting end and suitable for cohesive soils.

Accessories



38mm Diameter Sample Tube 230mm Long Complete with End Caps.

Code: [23-1577](#)



Extension Rod 27mm Diameter 1m Long. for Use with Auger Heads

Code: [23-1541](#)



Handle and T Piece for Use with EL23-1541.

Code: [23-1547](#)



Jarring Link for Driving Sample Tubes.

Code: [23-1587](#)



Spiral Auger 40mm Diameter. One Piece Model

Code: [23-1617](#)



Stillson Wrench Size 14.

Code: [23-1543](#)

Alternatives



150mm Dia Gravel Auger Head.

Code: [23-1517](#)



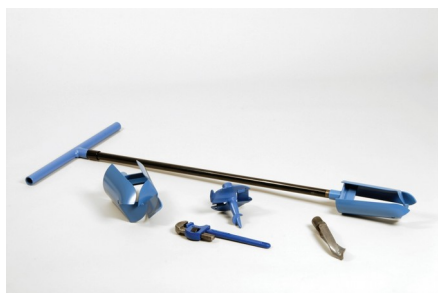
150mm Dia Soil Auger Head

Code: [23-1504](#)



50mm Dia Dutch Soil Auger Head.

Code: [23-1525](#)



150mm Dia Soil Auger Head

Code: [23-1504](#)

Product Group: [Soil and Gravel Auger Heads](#)

Constructed of heavy-duty steel plates; partly interlocked at the cutting end and suitable for cohesive soils.

Accessories



38mm Diameter Sample Tube 230mm Long Complete with End Caps.

Code: [23-1577](#)



Extension Rod 27mm Diameter 1m Long. for Use with Auger Heads

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100mm Dia Soil Auger Head

Code: [23-1501](#)



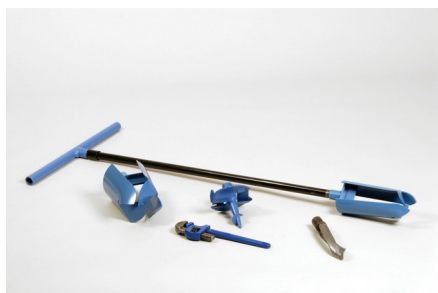
150mm Dia Gravel Auger Head.

Code: [23-1517](#)



50mm Dia Dutch Soil Auger Head.

Code: [23-1525](#)



150mm Dia Gravel Auger Head.

Code: [23-1517](#)

Product Group: [Soil and Gravel Auger Heads](#)

Comprises one piece steel casting with a spiral point and two plates designed to close when lifting samples from the borehole; suitable for gravel and sand.

Accessories



38mm Diameter Sample Tube 230mm Long Complete with End Caps.

Code: [23-1577](#)



Extension Rod 27mm Diameter 1m Long. for Use with Auger Heads

Code: [23-1541](#)



Handle and T Piece for Use with EL23-1541.

Code: [23-1547](#)



Jarring Link for Driving Sample Tubes.

Code: [23-1587](#)



Spiral Auger 40mm Diameter. One Piece Model

Code: [23-1617](#)



Stillson Wrench Size 14.

Code: 23-1543

Alternatives



100mm Dia Soil Auger Head

Code: 23-1501



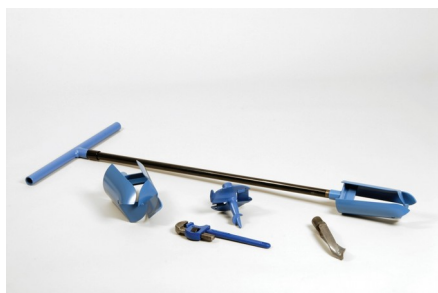
150mm Dia Soil Auger Head

Code: 23-1504



50mm Dia Dutch Soil Auger Head.

Code: 23-1525



50mm Dia Dutch Soil Auger Head.

Code: [23-1525](#)

Product Group: [Soil and Gravel Auger Heads](#)

Constructed of heavy-duty steel plates; partly interlocked at the cutting end and suitable for fine, silty sand.

Accessories



38mm Diameter Sample Tube 230mm Long Complete with End Caps.

Code: [23-1577](#)



Extension Rod 27mm Diameter 1m Long. for Use with Auger Heads

Code: [23-1541](#)



Handle and T Piece for Use with EL23-1541.

Code: [23-1547](#)



Jarring Link for Driving Sample Tubes.

Code: [23-1587](#)



Spiral Auger 40mm Diameter. One Piece Model

Code: [23-1617](#)



Stillson Wrench Size 14.

Code: 23-1543

Alternatives



100mm Dia Soil Auger Head

Code: 23-1501



150mm Dia Gravel Auger Head.

Code: 23-1517



150mm Dia Soil Auger Head

Code: 23-1504



Handle and T Piece for Use with EL23-1541.

Code: [23-1547](#)

Product Group: [Extension Rods, Handles and Tools](#)



Extension Rod 27mm Diameter 1m Long. for Use with Auger Heads

Code: [23-1541](#)

Product Group: [Extension Rods, Handles and Tools](#)

With tube connector, constructed of steel tubing
approximately 1 metre long.



38mm Diameter Sample Tube 230mm Long Complete with End Caps.

Code: [23-1577](#)

Product Group: [Extension Rods, Handles and Tools](#)

Supplied without Adaptor, but with two end caps



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](#)



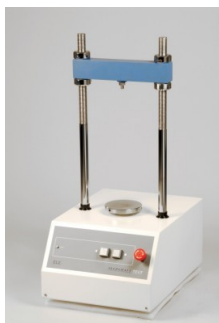
Cbr/Core Cutter Extruder Frame and Hydraulic Jack Extrudes 150mm/6 Inch Diameter Specimens.

Code: [23-4250](#)



Marshall Test 50

Code: [45-6810/06](#)



Marshall Test 50

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



Stillson Wrench Size 14.

Code: [23-1543](#)

Product Group: [Extension Rods, Handles and Tools](#)

Size 14, for use with 23-1541. Two required.



Rod Comparator

Code: [24-0811](#)

Product Group: [Rod Comparator](#), [Determination of Plastic Limit](#)

3mm diameter rod comparator to BS1377.

Standards

BS 1924-2, EN 1997-2, ASTM D4318, BS 1377, AASHTO T90



Evaporating Dish - 150 x 45 mm

Code: [82-2000](#)

Product Group: [Volumetric Shrinkage, Evaporating Dishes](#)

Shallow form with spout, porcelain 150 x 45 mm nominal diameter x height.

Further Information

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



Spatula 150 mm

Code: [81-0120](#)

Product Group: [Spatulas](#)

Further Information

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



Moisture Content Tin

Code: [81-2979](#)

Product Group: [Moisture Content Tin and Sample Containers](#)

Further Information

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



Liquid Limit Device ASTM/ Aashto Hand-Operated W/ Revolution Counter. Supplied Less Grooving Tool.

Code: [24-0434](#)

Product Group: [Casagrande Method](#)

Complete with revolution counter. Supplied less grooving tool.

Standards

ASTM D4318, AASHTO T89

Accessories



ASTM Metal Grooving Tool.

Code: [24-0453](#)



Casagrande Grooving Tool Aashto

Code: [24-0461](#)



Casagrande Grooving Tool Aashto

Code: [24-0461](#)

Product Group: [AASHTO Grooving Tool, Casagrande Method, Motorized Liquid Limit Device](#)

- Rust resistant brass construction.
- 1 cm gage block located at end of handle.

The AASHTO Grooving Tool is used to control the width of the soil groove in the liquid limit cup, in accordance with AASHTO specifications.

Standards

AASHTO T89

Further Information

Brass construction with a gauge height of 1 cm.

Specification

Construction	Brass.
Gauge Height	1 cm.
Weight	Net 3 oz. (85 g).

Spares/Consumables



ASTM Plastic Grooving Tools

Code: [24-0451](#)



Grooving Tool and Gauge B.S.

Code: [24-0425](#)

Product Group: [Casagrande Method](#)

Constructed to British Standards.

Standards

BS 1377-2



Glass Plate.

Code: [24-0430](#)

Product Group: [Casagrande Method, Determination of Plastic Limit](#)

500 mm square x 10 mm thick.

Standards

BS 1377-2



Support Assembly

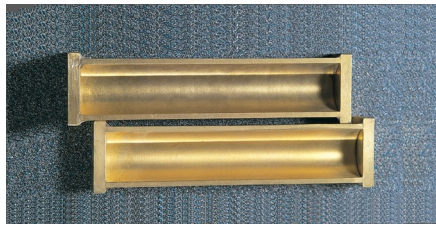
Code: [81-0094](#)

Product Group: [Stand, Bosshead and Clamp](#)

- Retort stand and clamp for general purpose

Further Information

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



Shrinkage Mould to BS 1377

Code: [24-1800](#)

Product Group: [Linear Shrinkage](#)

To produce a specimen 140 mm long x 12.5 mm radius.

Standards

BS 1377

Accessories



Vernier Caliper Range 0 to 200mm X 0.02mm.

Code: [81-0588](#)



Vernier Caliper Range 0 to 200mm X 0.02mm.

Code: [81-0588](#)

Product Group: [Determination of the Shape Index, Linear Shrinkage, Miscellaneous Laboratory Hardware](#)

Vernier callipers 200 x 0.002mm. Graduated in mm and inches.

Standards

EN 933-4, BS 1377



Electronic Balance - 220g x 0.001g

Code: [78-5335/01](#)

Product Group: [Electronic Balances](#)

Further Information

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

Specification

Capacity resolution	220 g x 0.001 mg
Pan size	120 mm dia
Mains and battery	No
Dimensions (w x d x h)	220 x 310 x 270 mm
Weight	12 kg
Weighing units	g, mg, ct, GN, N, oz, ozt, dwt, T, custom unit
Readability	0.001 mg



50 Litre Drying Oven

Code: [78-1215/01](#)

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



100 Litre Drying Oven

Code: [78-1225/01](#)



150 Litre Drying Oven

Code: [78-1235/01](#)



225 Litre Drying Oven

Code: [78-1250/01](#)



425 Litre Drying Oven

Code: [78-0135/01](#)





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 (l 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](#)



Unconfined Compression Platens. for Use on Ele Load Frames Max Sample Dia 95mm.

Code: [25-3650](#)

Product Group: [N/A](#)

Standards

ASTM D2166, AASHTO T208, BS 1377, BS 1924, EN 13286-47, ASTM D1883, AASHTO T193



Clamped Boss Load Ring - 4.5 kN

Code: 78-0260

Product Group: Digital Tritest 50 Load Frame, Direct/Residual Shear Apparatus, Proving Rings, Load Measurement, Load Measurement, Load Measurement, Clamped Boss Load Rings

Specification

Capacity: kN, kgf, lbf	4.5, 450, 1000
Typical Design sensitivity: N/div, kgf/div, lbf/div	3.0, 0.30, 0.66
Overall height mm	248
Approx weight kg	3.5
Capacity - lbf	1,000
Capacity - kN	4.5
Capacity - kgf	450
Typical Design Sensitivity - lbf/div	0.66
Typical Design Sensitivity - kN/div	3
Typical Design Sensitivity - Kg/div	0.3
Overall Height	9.76" (248 mm)
Approx Weight	7.7 lbs.(3.5 kg)

Accessories



50kN Clamped Boss Load Ring

Code: 78-0860



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](#)



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

Code: [78-0264](#)

Spares/Consumables



Spare Dial Indicator for Load Rings

Code: [78-5461](#)

Alternatives



50kN Clamped Boss Load Ring

Code: [78-0860](#)



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](#)



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

Code: [78-0264](#)



ASTM Compaction Rammer 2.5Kg.

Code: [24-9063](#)

Product Group: [Proctor compaction](#), [Standard Compaction Hammer](#)

50.8mm diameter x 305mm deep.

Standards

ASTM D1557, AASHTO T180, ASTM D558, ASTM D559, ASTM D560, ASTM D698, AASHTO T99, AASHTO T134, AASHTO T135, AASHTO T136

Specification

Hammer	2" diam. (50.8 mm); 5-1/2 lbs. (2.49 kg).
Drop	12 " (305 mm).
Guide Sleeve	Machined steel tubing with air pressure release holes
Finish	Corrosion resistant
Weight	4.1 kg (9 lbs)

Accessories



ASTM/Modified Proctor Compaction Rammer 4.5Kg.

Code: [24-9070](#)



Straight Edge 300mm.

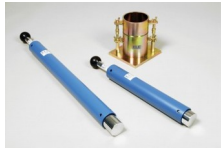
Code: [24-9010](#)

Alternatives



ASTM/Modified Proctor Compaction Rammer 4.5Kg.

Code: [24-9070](#)



Straight Edge 300mm.

Code: [24-9010](#)



ASTM/Modified Proctor Compaction Rammer 4.5Kg.

Code: [24-9070](#)

Product Group: [ASTM/Modified Proctor compaction, Modified Compaction Hammer](#)

50.8mm diameter x 457.2 mm drop.

Standards

ASTM D1557, AASHTO T180

Specification

Hammer	2" diam. (50.8 mm); 10 lbs. (4.5 kg).
Drop	18" (457.2 mm).
Guide Sleeve	Machined steel tubing with integrally spun end cap; air pressure release holes.
Finish	Corrosion resistant
Weight	Net 6.3 kg (14 lbs)

Accessories



ASTM Compaction Rammer 2.5Kg.

Code: [24-9063](#)

Alternatives



ASTM Compaction Rammer 2.5Kg.

Code: [24-9063](#)



Penetration Piston

Code: [24-9182](#)

Product Group: [Penetration Measurement](#)

1.935 mm² (3 in²) area foot of case hardened steel.
Designed to fit all ELE load rings.



Penetration/Swell Dial Gauge ASTM.

Code: 24-9184

Product Group: Expansion (swell) Test Equipment,
In-situ CBR, Conversion of In-situ to Laboratory CBR,
Penetration Measurement

1 in travel x 0.0005 in divisions. Complete with rack
extensions and chisel edge anvil.

Standards

BS 1377, BS 1924



ASTM Cbr Mould Complete with Collar & Perforated Base

Code: [24-9228](#)

Product Group: [ASTM/AASHTO CBR mould](#)

With collar and perforated baseplate.

Standards

ASTM D1883, AASHTO T193

Specification

Mould	152.4 x 177.8 mm (inside diameter x height)
Collar	50.8 mm height, fits both ends of mould
Base plate	Perforated
Construction	All steel, plated
Weight kg	9

Accessories



4.5Kg Annular Surcharge Weight ASTM.

Code: [24-9243](#)



5 Lb. Annular Surcharge Weight ASTM.

Code: [24-9245](#)



ASTM Cutting Collar.

Code: [24-9236](#)



ASTM Spacing Disc.

Code: [24-9238](#)

Alternatives



4.5Kg Annular Surcharge Weight ASTM.

Code: [24-9243](#)



5 Lb. Annular Surcharge Weight ASTM.

Code: [24-9245](#)



ASTM Cutting Collar.

Code: [24-9236](#)



ASTM Spacing Disc.

Code: [24-9238](#)



ASTM Spacing Disc.

Code: [24-9238](#)

Product Group: [Spacer Discs, ASTM/AASHTO CBR mould accessories](#)

150.8 mm diameter x 61.4 mm deep.

Specification

Construction

Steel; machined on all sides.

Finish

Plated.

Weights

Net 18.9 lbs. (8.6 kg).

Accessories



ASTM Cbr Mould Complete with Collar & Perforated Base

Code: [24-9228](#)

Alternatives



ASTM Cbr Mould Complete with Collar & Perforated Base

Code: [24-9228](#)



Filter Screen 150mm Dia with 0.15mm Mesh.

Code: [24-9240](#)

Product Group: [Filter Screen, ASTM/AASHTO CBR mould accessories](#)

150 mm dia, 150 µm mesh for use with ASTM mould.

Specification

Mesh	Brass; number 100.
Size	5-15 /16" diam. (135 mm).
Weight	Net 1 oz. (28 g).

Accessories



Filter Paper Equivalent to Whatman No 5 150mm Dia Box of 100.

Code: [24-9250](#)

Alternatives



Filter Paper Equivalent to Whatman No 5 150mm Dia Box of 100.

Code: [24-9250](#)