



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

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+44 (0) 01525 249 200



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Semi-Automatic Cone Penetrometer

Code: 24-0545/01

Product Group: Semi-Automatic Cone Penetrometer,
Semi-Automatic Cone Penetrometer

Bench mounted apparatus to determine the liquid limit of soils to BS1377. This method is applicable to a wide range of soils. The apparatus is fitted with a 150mm diameter dial indicator for direct reading of penetration. Supplied complete with 30 deg, 30mm long test cone. Manufactured from stainless steel and includes adjustable levelling feet.

Incorporates digital automatic controller, which releases the plunger head and ensures free falling of the penetration device during the test. The time set is displayed by a bright easy to read display.

Standards

BS 1377, BS 1924-2, EN 1997-2

Specification

Dial Indicator	150 mm diameter graduated in 400 x 0.1 mm divisions. Indicator incorporates a friction/gear system.
Height	Adjustable using rapid integral clamping mechanism.
Cone Release	Semi-Automatic
Cone	1 x 30°, 35 mm test cone included.
Base	Cast aluminum with adjustable leveling feet.
Weight	Net 19 lbs. (8.64 kg).



Penetration Test Cup.

Code: [24-0548](#)

Product Group: [Cone Penetrometer Method](#), [Cone Penetrometer](#)

Brass construction, 55mm dia x 40mm depth to fit BS1377

Standards

BS 1377-2



Prong Plate.

Code: [24-1500](#)

Product Group: [Volumetric Shrinkage](#), [Shrinkage](#)
[Prong Plate](#)

Made of acrylic plastic fitted with three prongs,
nominal 76 mm square and 2.4 mm thick.

Standards

BS 1377, ASTM D427, AASHTO T92

Specification

Construction	Acrylic plastic with 3 metal prongs.
Dimensions	3" square x 1/8" thick (76 x 3.2 mm).
Weight	Net 1 oz. (28 g).



Standard Compaction Rammer 2.5kg BS1377

Code: [24-9002](#)

Product Group: [BS/EN compaction test 2.5kg](#)

50mm diameter with 300mm drop, manufactured from corrosion protected steel.

Standards

BS 1377-4, BS 1924-2

Specification

Rammer	50 mm dia, 2.5 kg
Drop	300 mm
Guide Sleeve	Machined steel tubing with air pressure release holes
Finish	Corrosion resistant
Weight kg	4.2



BS Compaction Rammer 4.5Kg Wt.

Code: [24-9004](#)

Product Group: [BS/EN compaction test 4.5kg, Straightedge](#)

50mm diameter with 450mm drop, manufactured from corrosion protected steel.

Standards

BS 1377-4, BS 1924-2

Specification

Rammer	50 mm dia, 4.5 kg
Drop	450 mm
Guide Sleeve	Machined steel tubing with air pressure release holes
Finish	Corrosion resistant
Weight kg	7.5



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 Dial Gauge BS

Code: [24-9186](#)

Product Group: [In-situ CBR](#), [Conversion of In-situ to Laboratory CBR](#), [Penetration Measurement](#)

Complete with rack extensions and chisel edge anvil. 25 mm travel x 0.01 mm divisions.

Standards

BS 1377, BS 1924



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

Code: [24-9188](#)

Product Group: [In-situ CBR](#), [Conversion of In-situ to Laboratory CBR](#), [Penetration Measurement](#)

Dual purpose mounting bracket for CBR penetration dial gauges. Allows gauge to be fixed to penetration piston or load ring.

Standards

BS 1377, BS 1924



BS Cbr Mould Body.

Code: [24-9198](#)

Product Group: [BS EN CBR mould, Accessories for BS compaction and CBR](#)

Standards

ASTM D1883, AASHTO T193

Specification

Mould	152 x 127 mm (inside diameter x height)
Collar	51 mm height, fits both ends of mould
Base plate	Solid, fits both ends of mould
Construction	All steel, plated
Weight kg	7.3



BS Extension Collar

Code: [24-9200](#)

Product Group: [BS EN CBR mould accessories](#),
[Accessories for BS compaction and CBR](#)

Standards

EN 13286-4, BS 1377-4, BS 1924-2



BS Perforated Base Plate.

Code: [24-9202](#)

Product Group: [BS EN CBR mould accessories](#)

To fit mould body

Standards

EN 13286-4, BS 1377-4, BS 1924-2



BS Solid Base or Top Plate

Code: [24-9204](#)

Product Group: [BS EN CBR mould accessories](#),
[Accessories for BS compaction and CBR](#)

Standards

EN 13286-4, BS 1377-4, BS 1924-2



Cbr Cutting Collar with Area Ratio of 21.9% to Fit BS Moulds.

Code: [24-9206](#)

Product Group: [BS EN CBR mould accessories](#)

To fit BS/EN mould body.

Standards

EN 13286-4, BS 1377-4, BS 1924-2



C-Spanner for BS Cbr Mould. Two Required.

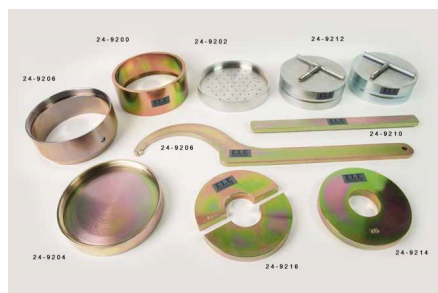
Code: [24-9208](#)

Product Group: [BS EN CBR mould accessories](#)

To fit BS/EN CBR moulds and collars. Two required.

Standards

BS 1377-4, BS 1924-2, EN 13286-4



Base Plate Tool for BS Mould

Code: [24-9210](#)

Product Group: [BS EN CBR mould accessories](#)

To fit into base plate to assist removal from mould body.

Standards

EN 13286-4, BS 1377-4, BS 1924-2



Static Compaction Plug.

Code: [24-9212](#)

Product Group: [BS EN CBR mould accessories](#)

Steel, 150 mm dia x 51 mm thick. Complete with removable handle.

Standards

EN 13286-4, BS 1377-4, BS 1924-2



2Kg Annular Surcharge Weight

Code: [24-9214](#)

Product Group: [BS EN CBR mould accessories](#)

Standards

EN 13286-4, BS 1377-4, BS 1924-2



2Kg Split Surcharge Weight.

Code: [24-9216](#)

Product Group: [BS EN CBR mould accessories](#)

Standards

EN 13286-4, BS 1377-4, BS 1924-2



Filter Papers 150mm Dia Equivalent to Whatman No 1. Box of 100.

Code: [24-9220](#)

Product Group: [BS EN CBR mould accessories](#)

Box of 100.

Standards

EN 13286-4, BS 1377-4, BS 1924-2



Spacer Disc 5-7/8" Diameter

Code: [24-9237](#)

Product Group: [Spacer Discs](#)

5-7/8" diam. x 2" h. (147.6 x 50.8 mm).

Specification

Construction

Steel; machined on all sides.

Finish

Plated.

Weights

Net 15.4 lbs. (7 kg).



Expansion Index Test Apparatus

Code: 25-0380

Product Group: Expansion Index Test Apparatus

- Completely self-contained and compact design.
- Accurate to 0.0001" (0.002 mm).
- Testing time of 24 hours or less on cured soil specimens.

The Expansion Index Test Apparatus is a completely self-contained apparatus designed for use in determining the expansion index of soils. Using the new consolidation apparatus, contractors and laboratory technicians can conduct an expansion test on a cured soil specimen in 24 hours or less.

The apparatus is designed to control all of the variables that influence the expansive characteristics of a particular soil while still performing a practical test for general engineering use.

Standards

ASTM D4829, California UBC 29-2

Specification

Base and Collar	Cast aluminum construction; brass hold-down rods.
Specimen Ring	Stainless steel; 4" i.d. x 1" h. (101.6 x 25 .4 mm).
Porous Stones	4" diam. x 1/2" thick (101.4 x 12 .7 mm).
Loading Weight	Brass; 12 .6 lbs. (5.7 kg).
Dial Indicator	0.3" range x 0.0001" graduations
Test Duration	24 hours or less on cured sample.
Dimensions	6" diam. x 11 " h. (152 x 279 mm).
Weight	Net 18 lbs. (8.2 kg).



Plastic Limit Set

Code: [2810E](#)

Product Group: [Plastic Limit Set](#)

Set includes:

- 1 Plastic Limit Plate (24-0810) 12" x 12" x 3/8".
- 1 25 ml Graduated Cylinder (88-6002A).
- 1 Mixing Dish (88-6710).
- 1 Doz. Aluminum Moisture Cans (88-7002).
- 1 Flexible Spatula (88-7500).
- 1 Rod Comparator (24-0811).

Standards

ASTM D4318, AASHTO T90



Electronic digital theodolite

Code: [500-175](#)

Product Group: [Surveying Equipment](#)

Supplied complete with instruction manual, protective cover, carrying case and a heavy duty, aluminium tripod.

Specification

Magnification	30x
Clear Objective Aperture	45 mm
Shortest Focusing Distance	1.4 mm
Accuracy	2 mgon (10 inches)
Min Reading	1 mgon (5')



Total Station with EDM, Tribach, Li-Ion Battery, Charger, Flat Prism, Reflector Pole and Carry Case

Code: **500-196**

Product Group: **Surveying Equipment**

The Tool Station is specifically designed for non-surveyors, such as site foremen architects and landscape gardeners etc. who have no direct surveying education. It is trouble-free, accurate and quick.

Many customers are very familiar with co-ordinates in their office based CAD design & drawing packages and the Builder is really just an extension of this environment in the field.

Clear and intuitive graphical interface increases workflow.

Data can be collected in the field as a series of points and transferred directly to the CAD package and a design can similarly be uploaded for setting out in the field.

Data can be exchanged via USB stick.

The software has a simple menu structure, which guides the user through each task in terminology that the layman can easily follow and understand.

The 500-196 will calculate all the angles and measure the distances with the in-built laser. Quick, Efficient, Accurate!

With the 500-196 you can call up plan data and record points, eliminating read and write errors.

Data can be exchanged via industrial grade USB stick, simplifying data handling.

It also features a direct DXF download function, tracking mode, setup anywhere function, optional volume calculation.

- Up to 120m reflectorless
- Up to 250m with flat prism or reflective tape.
- Internal Memory - up to 15,000 points
- Serial RS232 Interface
- USB Compartment
- Laser Plummet
- 1 keyboard
- Extended RedDot range
- Industrial USB Memory Stick
- USB Type A and mini B
- Volumes Calculation

- Data Im/Export to USB Stick
- Setout by co-ordinates or baseline offset
- Survey points with codes and point numbers

- Direct DXF download
- 1-Man Station
- Serial Interface
- Tracking Mode
- Laser Pointer Switch Key
- PC/Handheld Interface
- Laser Distance Measure
- Control Line Setup
- Free Station Setup
- Theft Protection
- Pit Stop Alert
- 3 Languages
- Electronic Levelling
- Sector Beep
- Dual Axis Compensator
- Endless Drives
- Laser Plummet
- Display Heating and Illumination
- Li-Ion Batteries
- Set Delivery
- Internal Memory (points): 15,000
- Accuracy/Option: 9"
- Laser Pointer
- Range without reflector (90% reflective):

120m

- Range to reflective tape (60mm x 90mm):

250m

- Laser Dot Size: At 30m: approx. 7mm x

10mm, At 50m: approx. 8mm x 20mm

- Weight incl. Battery & Tribrach: 5.1kg
- Operating Temperature: -20°C to +50°C
- Battery Type/Life: Li-Ion/approx. 20 hours
- Environmental: IP55
- Keyboard: Standard
- Switch Key: single function



Clamped Boss Load Ring - 28.0 kN

Code: 78-0760

Product Group: Clamped Boss Load Rings, Digital Tritest 50 Load Frame, Load Measurement, Proving Rings, CBR-Test 50 Machine, Conversion of In-situ to Laboratory CBR, Load Measurement, CBR Loading Press, Hand-Operated, Force measurement

Standards

BS 1377, BS 1924

Specification

Capacity: kN, kgf, lbf	28.0, 2800, 6000
Typical Design sensitivity: N/div, kgf/div, lbf/div	25.5, 2.54, 5.45
Overall height mm	248
Approx weight kg	5.4
Capacity	28 kN
Value of CBR	Average range of CBR
Capacity - lbf	6,000
Capacity - kN	28
Capacity - kgf	2,800
Typical Design Sensitivity - lbf/div	5.45
Typical Design Sensitivity - N/div	25.5
Typical Design Sensitivity - Kgf/div	2.54
Overall Height	9.76" (248 mm)
Approx Weight	11 .9 lbs.(5.4 kg)