

For the construction industry.

# MATERIAL TESTING EQUIPMENT (2021)





## Table of Content

### SOIL

TEST SIEVES	1
SIEVE SHAKER	2
DRYING OVEN	3
MUFFLE FURNACE	4
BALANCE	5
RIFFLE BOX	6
CORE CUTTER	
ADVANCE CBR LOADING TESTER	7
AUTOMATIC PROCTOR/CBR SOIL COMPACTOR	
UNIVERSAL EXTRUDER	
PLASTIC LIMIT & LIQUID LIMIT	8
SAND REPLACEMENT & PROCTOR TEST APPARATUS	9
VIBRATING COMPACTION HAMMER	10
HAND AUGER APPARATUS	
PEAT AUGER	11
DYNAMIC CONE PENETROMETER	12
MACKINTOSH/JKR PROBE APPARATUS	
CBR FIELD TEST SET (CBR INSITU)	13
CALIFORNIA BEARING RATIO (C.B.R)	

### AGGREGATE

SPEEDY MOISTURE TESTER	14
AGGREGATE IMPACT VALUE (AIV)	15
AGGREGATE CRUSHING VALUE (ACV)	
BULK DENSITY MEASURES	16
PYCNOMETER	
SAND ABSORPTION CONE & TAMPER	
FLAKINESS & ELONGATION GAUGE	17
DENSITY BASKET	



## BITUMEN & ASPHALT

AUTOMATIC MARSHALL COMPACTOR	18
MANUAL MARSHALL COMPACTOR	19
THERMOSTATIC DIGITAL DISPLAY WATER BATH with COVER	
ELECTRIC HOT PLATE	
MOTORIZED MARSHALL STABILITY COMPRESSION 50KN	20
AUTOMATIC MARSHALL STABILITY COMPRESSION TESTER 50KN (BM288)	21
AUTOMATIC MARSHALL STABILITY COMPRESSION TESTER 50KN (BM300)	22
CENTRIFUGE EXTRACTOR APPARATUS	23
FILTER DISC	
SOLVENT RECOVERY UNIT	24
PORTABLE SKID RESISTANCE TESTED	
ROAD FLATNESS CHECKER	
PRESSURE FILTER APPARATUS	25
BOTTLE ROLLER APPARATUS	
BINDER RECOVERY APPARATUS	26
FILTRATION APPARATUS	

## CONCRETE/CEMENT

DIGITAL MANUAL CONCRETE COMPRESISON MACHINE	27
AUTOMATIC CONCRETE COMPRESSION MACHINE	
CONCRETE TEST HAAMMER	28
CAST IRON CONCRETE MOULD	29
THREE-GANG MOULD	
PLASTIC CUBE MOULD	30
CYLINDER MOULD	31
PRISM MOULD	
STEEL BEAM MOULD	32
CONCRETE STEEL SCOOP	
SLUMP TEST SET	33
COMPACTING FACTOR APPARATUS	34
PLASTIC CONCRETE CURING TANK C/W OUTLET	
ELECTRICAL CONCRETE MIXER WITH DRUM	35
CEMENT MORTAR MIXERS	



GROUT FLOW CONE SET .....	36
MARSH FUNNEL VISCOMETER	
CONCRETE VIBRATING TABLE	
ELECTRIC DRILLING CORING MACHINE .....	37
MISCELLANEOUS .....	38 - 47



## TEST SIEVES

### Description:

Standard: BS 410, EN 933-2; ISO 3310-1; ISO 3310-2; ISO565

All test sieves are manufactured to International Specifications and are supplied with a "Certificate of Compliance".

Particle Size Analysis is probably performed in all laboratories engaged in testing materials for civil engineering applications. The range of sieves offered includes ISO, EN, BS and ASTM sieves. Woven wire test sieves are manufactured from stainless steel mesh. All test sieves are supplied with full-depth frames.



Nominal Aperture	Model Number	
	200mm dia.	300mm dia.
38 µm	SV201	SV301
40 µm	SV202	SV302
45 µm	SV203	SV303
50 µm	SV204	SV304
53 µm	SV205	SV305
63 µm	SV206	SV306
75 µm	SV207	SV307
80 µm	SV208	SV308
90 µm	SV209	SV309
100 µm	SV210	SV310
106 µm	SV211	SV311
125 µm	SV212	SV312
150 µm	SV213	SV313
160 µm	SV214	SV314
180 µm	SV215	SV315
200 µm	SV216	SV316
212 µm	SV217	SV317
250 µm	SV218	SV318
300 µm	SV219	SV319
315 µm	SV220	SV320
355 µm	SV221	SV321
400 µm	SV222	SV322
425 µm	SV223	SV323
500 µm	SV224	SV324
600 µm	SV225	SV325
630 µm	SV226	SV326
710 µm	SV227	SV327
800 µm	SV228	SV328
850 µm	SV229	SV329

Nominal Aperture	Model Number	
	200mm dia.	300mm dia.
1 mm	SV230	SV330
1.18 mm	SV231	SV331
1.25 mm	SV232	SV332
1.4 mm	SV233	SV333
1.6 mm	SV234	SV334
1.7 mm	SV235	SV335
2 mm	SV236	SV336
2.36 mm	SV237	SV337
2.5 mm	SV238	SV338
2.8 mm	SV239	SV339
3.15 mm	SV240	SV340
3.35 mm	SV241	SV341
4 mm	SV242	SV342
4.75 mm	SV243	SV343
5 mm	SV244	SV344
5.6 mm	SV245	SV345
6.3 mm	SV246	SV346
6.7 mm	SV247	SV347
8 mm	SV248	SV348
9.5 mm	SV249	SV349
10 mm	SV250	SV350
11.2 mm	SV251	SV351
12.5 mm	SV252	SV352
13.2 mm	SV253	SV353
14 mm	SV254	SV354
16 mm	SV255	SV355
18 mm	SV256	SV356
19 mm	SV257	SV357
20 mm	SV258	SV358

22.4 mm	SV259	SV359
25 mm	SV260	SV360
26.5 mm	SV261	SV361
28 mm	SV262	SV362
31.5 mm	SV263	SV363
37.5 mm	SV264	SV364
40 mm	SV265	SV365
45 mm	SV266	SV366
50 mm	SV267	SV367
53 mm	SV268	SV368
56 mm	SV269	SV369
63 mm	SV270	SV370
75 mm	SV271	SV371
80 mm	SV272	SV372
90 mm	SV273	SV373
100 mm	SV274	SV374
125 mm	SV275	SV375
Lid and Pan	SV276	SV376

Nominal Aperture	Model Number
	200mm dia. Wash Sieves
2 mm	SW120
63 µm	SW163
75 µm	SW175



## HIGH FREQUENCY ELECTRIC SIEVE SHAKER

Standard: EN 932-5, ISO 565, 3310-1, 3310-2,  
ASTM E11, 323:BS 410-1, 410-2

### Description:

The Sieve Shaker imparts a up and down vibration to the material being sieved so that it makes a slow progression over the surface of the sieve.

At the same time, a feature of the rapid vertical movement agitates the sample which helps to clear the sieve apertures and avoid them blinding.

The shaker is fitted with a timer which can be pre-set for any duration up to 60 minutes. This unit will accept 200mm and 300mm sieves diameter.



Sieve Shaker + 300mm Sieve



Sieve Shaker + 200mm Sieve

### Technical Specifications:

Model Number	SS-HF05
Sieve Capacity	200mm dia. (9 pcs) 300mm dia. (7 pcs)
Vibration Frequency	42 Hz
Vibration Type	Up and down vibration
Amplitude	1.5mm
Setting Time	0-60 min
Power	25 W
Voltage	240V, 50Hz
Weight	30kg

## DIGITAL DISPLAY DRYING OVEN

Standard: ASTM C127/C136/D558/D698/D1559, EN 932-5/1097-5, BS 1377/1924, 598 & 2648



OV080



OV450

### Descriptions:

The Geotechnical Laboratory Ovens offer a range of highly efficient, reliable, cost effective units to suit most drying, warming, and general laboratory applications such as soil, concrete, asphalt and aggregate.

The exterior is constructed from cold pressed steel plate. The interior filled with aluminum silicate. Fan circulation is fitted as standard on ovens. Temperature ranges from Room Temperature – 300 °c. The door and chamber are filled with carbon silicone seals for excellent insulation against heat also come with glass viewing door. The interior is fitted with fixed shelf positions with removable chrome plated steel wire grid shelves.

The control system comprises of a Digital display panel with thermostatically controlled units Microprocessor digital controller.

### Technical Specifications:

Model Number	OV080	OV125	OV225	OV450
Capacity	80 litres	125 litres	225 litres	450 litres
Voltage	240 V, 50-60 Hz, 1ph			
Temp. Variation	Room Temperature – 300 °c			
Temp. Precision	±1°C			
Temp. Distinguishability	0.1°C			
Ambient Temperature	+5-40°C			
Heating Power	1.5 kw	2 kw	3 kw	5.4 kw
Interior Dimension	450x450x400mm	500x450x550mm	500x600x750mm	650x950x750mm
Exterior Dimension	750x580x670mm	570x810x770mm	630x910x920mm	820x1450x920mm
Load Per Rack	25/kg 2 for standard configuration			25/kg 3 for standard configuration
Gross/Net Weight	50/62 kg	56/71 kg	72/85 kg	110/140 kg
Timing Range	1-9999 mm			

### Accessories:

Model Number	Description
OV080-A-1	Shelve for Drying Oven 80 litres
OV125-A-1	Shelve for Drying Oven 125 litres
OV225-A-1	Shelve for Drying Oven 225 litres
OV450-A-1	Shelve for Drying Oven 450 litres



## MUFFLE FURNACE

Standard: EN 196-2; EN 459-2; BS 1016:4; ASTM D2361; D 2795

### Description:

The Muffle Furnaces are widely used for determining various properties of construction materials such as the loss of ignition. Vertical lift door directs heat away from the user and saves counter space.

A safety interlock switch disconnects power when the door is open. Vertical lift door directs heat away from the user and saves counter space. A safety interlock switch disconnects power when the door is open. Vertical lift door has maximum access with minimum headroom for easy loading and unloading.



### Technical Specifications:

Model Number	DMF-SX4D	DMF-SX25	DMF-SX41
Maximum temperature	1200°C	1000°C	1000°C
Internal dimension	300 x 200 x 200 mm	200 x 120 x 80 mm	300 x 200 x 120 mm
Voltage	240V, 50Hz	240V, 50Hz	240V, 50Hz
Power	4kW	2.5kW	4kW



## ELECTRONIC BALANCE

Standard: ASTM D4753, BS 1377, pr EN 9325-5

### Description:

Our range of balances are designed for the lab but have the rugged features needed for materials testing. They include all metal chemical resistant dies-cast housings. Compact and durable, these balances are the best choice for basic weighing and economy.

### Technical Specifications:

Model Number	Capacity	Resolution	Pan Size	Overall Dimensions (L x W x H)	Weight
<b>BFW-2001</b>	600g	0.01g	130 mm dia.	250 x 180 x 80 mm	3kg
<b>BFW-2002</b>	1000g	0.1g	145 x 145 mm	220 x 160 x 50 mm	0.65kg
<b>BFW-2003A</b>	3000g	0.1g	165 x 165 mm	250 x 180 x 80 mm	3kg
<b>BFW-2003B</b>	3000g	0.01g	130 mm dia.	250 x 180 x 80 mm	3kg
<b>BFW-2009</b>	5000g	0.1g	255 x 190 mm	320 x 260 x 110 mm	4kg
<b>BFW-2004</b>	6000g (with hook)	0.1g	255 x 190 mm	320 x 260 x 110 mm	4kg
<b>BFW-2005A</b>	15kg	1g	255 x 190 mm	425 x 365 x 170 mm	4.6kg
<b>BFW-2005B</b>	15kg (with hook)	0.5g	255 x 190 mm	320 x 260 x 110 mm	4kg
<b>BFW-2006A</b>	30kg	0.1g	255 x 190 mm	320 x 260 x 110 mm	4kg
<b>BFW-2006B</b>	30kg	0.5g	255 x 190 mm	320 x 260 x 110 mm	4kg
<b>BFW-2007</b>	30kg	1g	255 x 190 mm	425 x 365 x 170 mm	4.6kg
<b>BFW-2008</b>	100kg	1g	400 x 500 mm	700 x 400 x 950 mm	14kg



## SPECIFIC GRAVITY FRAME/BUOYANCY BALANCE



Standard: BS 812:2, 1881:14 – pr EN 12390-7 – UNI 6394-2

### Description:

Used in conjunction with a suitable electronic balance for specific gravity determination of fresh and hardened concrete and aggregates.

### Technical Specifications:

<b>Model Number</b>	<b>BBS-5000</b>
<b>Max. measure capacity</b>	5000g
<b>Accuracy</b>	0.1g
<b>Dimension</b>	200 x 265 x 505 mm
<b>Power</b>	240 V





## RIFFLE BOX

Standard: BS 812:1, 1377:2, 1924:1, EN 932-1, 933-3, ASTM C136, C72, BS 812, AASHTO T27/T87



SS063



SS380



SS508

### Description:

Riffle Boxes are used for dividing soil aggregates into representative sample increment for testing.

Heavy Duty Electrostatic painted and manufactured from heavy gauge sheet metal the slots widths and number of slots as required in the standards.

Riffle boxes are supplied complete with 3 containers easy to handle.

### Technical Specifications:

Model Number	Sloth Width (mm)	Sloth No.	Dimension (mm)	Weight (kg)
SS063	6.3	12	193 x 133 x 142	1.5
SS095	9.5	12	265 x 107 x 175	3
SS127	12.7	12	266 x 161 x 176	3
SS190	19.0	12	400 x 214 x 263	7
SS254	25.4	12	340 x 243 x 295	7
SS380	38.0	8	483 x 286 x 390	15
SS508	50.8	8	573 x 286 x 390	18
SS635	63.5	8	653 x 380 x 430	20

## SURFACE SOIL SAMPLER (CORE CUTTER)

Standard: BS 1377-9

### Description:

**Model Number** SCC-137

The core cutter is driven into the soil using the driving rammer. Then the core cutter is dug out, trimmed, weighed, and dried and the density and moisture content calculated. Made of plated steel.

### Accessories:

Model Number	Description	Weight
SCC-137-1	100mm dia. x 130mm long Core Cutter	1kg
SCC-137-2	Driving Dolly for 100mm dia. Core Cutter	1kg
SCC-137-3	Driving Rammer for 100mm dia. Core Cutter	13.5kg





## ADVANCE CBR LOADING TESTER 50KN

Standard: EN 13286-47, BS 1377:4, ASTM D1883, AASTHO T193

### Description

Bench mounting type machine, with rigid and compact design. By using DC motorised drive system to achieve more reliable and high accurate testing result.

### Technical Specifications

Model Number	SCT-106
Capacity	50kN
Testing speed	1mm/min
Vertical clearance	730mm
Horizontal clearance	270mm
Power	115-230 V, 50/60 Hz, 1 hp, 370 W
Product dimension (L x W x H)	800 x 410 x 1200 mm
Packing dimension (L x W x H)	900 x 545 x 1400 mm

### Unit consists of:-

Machine Frame	1 no
Proving Ring 50kN/0.002mm	1 no
Dial Gauge Holder	1 no
Dial Gauge 25mm x 0.01mm	1 no
Extension Rod Ø 50 x 100 mm for BS Penetration Piston	1 no



## AUTOMATIC PROCTOR/ CBR SOIL COMPACTOR - Model Number: SSC1025

Standard: EN 13286-47 / BS 1377:4 / ASTM D698, D1557, D1183 / AASTHO T99, T108, T193

### Description

Provides a fully automatic uniform compaction of specified effort, thus ensuring repeatable test results and eliminating any operator fatigue during the tests.

### Technical Specifications

Compaction Rate	30 blows/min
Adjustable Rammer	Interchangeable 2.5 or 4.5
Weight	kg
Rammer Diameter	50 mm
Drop Height	300 or 450 mm
Power	240 volt

### Unit consists of:-

- Compactor Unit Controller
- 2 Type Mould (100mm and 152mm dia)
- 2 Rammer Weight (2.5kg and 4.5kg)



## UNIVERSAL EXTRUDER

Standard: ASTM D698, D1587, D1883, BS 598:107, 1377:4, 1924:2

### Description

Used to remove Marshall, proctor and CBR specimens. Mainly used to remove 4" and 6" samples from Marshall, proctor and CBR moulds

### Technical Specifications

Model Number	SL020
Extrusion Force	30 km
Ram Stroke	200 mm
Weight	25 kg







## PLASTIC LIMIT SET

Standard: AASTM D4318, AASHTO T90, BS 1377:2, UNI 10014

### Descriptions

A comprehensive test set which includes most of the necessary equipment for the determination of the plastic limit of soil.



### Technical Specifications

Model Number	SP205
<b>Unit consists of:-</b>	
Glass Plate 50 x 50 x 4 mm	1 no
Porcelain Evaporating Dish	2 nos
Moisture Content Tin	6 nos
Flexible Spatula	1 no
Measuring Cylinder 25ml	1 no

Model Number	SP206I
<b>Unit consists of:-</b>	
Glass Plate 15cm x 20cm x 10mm	1 no
Porcelain Evaporating Dish	1 no
Moisture Content Tin 2" x 1" with Lid	4 nos
Stainless Steel Spatula 10cm (L) with wooden handle	1 no
Wash Bottle 500ml	1 no
Brass Rod 3mm Ø x 100mm (L)	1 no



## LIQUID LIMIT APPARATUS

### Descriptions

Used to determine the moisture content at which clay soils pass from a plastic to a liquid state.

Standard: AASTM D4318, AASHTO T89, BS 1377, 1997-2



### Technical Specifications

Model Number	SL260
<b>Unit consists of:-</b>	
ASTM Grooving Tool	1 no
AASHTO Grooving Tool	1 no
ASTM LL Gauge Block	1 no

Standard: AASTM D4318, BS 1377:2, NF P94-051, DIN 18122, UNE 7377 7002, UNI 10014

## LINEAR SHRINKAGE MOULD

Standard: AASTM D4318, AASHTO T90, BS 1377:2, UNI 10014

### Descriptions

This test covers the determination of linear shrinkage of soils and indicates the plastic properties of soils with a low clay content.

### Technical Specifications

Model Number	SLD226	SLD227
Internal dimension	140mm long x 12.5mm radius	254mm long x 12.5mm radius





## SAND REPLACEMENT

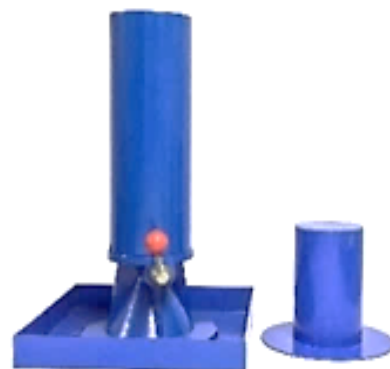
Standard: BS 1377-9/1924-2, ASTM D1556, AASHTO T191, CNR No.22, NF P94

### Description

The Sand Replacement is used to determine the dry density of in-situ compact, fine, medium-grained soils and for layer not exceeding 50 cm thickness.

### Technical Specification

Model Number	Description
<b>SK100</b>	Sand Replacement Pouring Cylinder 100mm Set Consists of:- Pouring Cylinder 100mm Calibration Container 100mm Tray with 100mm central hole, 300mm square, galvanised steel
<b>SK101</b>	Sand Replacement Pouring Cylinder 150mm Set Consists of:- Pouring Cylinder 150mm Calibration Container 150mm Tray with 150mm central hole, 335mm square, galvanised steel
<b>SK102</b>	Sand Replacement Pouring Cylinder 200mm Set Consists of:- Pouring Cylinder 200mm Calibration Container 200mm Tray with 200mm central hole, 445mm square, galvanised steel
Optional Accessories	
<b>SD050</b>	Density Sand (50kg/bag) 600/300 micron



## PROCTOR TEST APPARATUS

Standard: BS 1377/1924, ASTM D558/698, AASHTO T99/T134, EN 13286-2

### Description

Moulds and rammers are used for determining the relationship between the moisture content and density of compacted soil. Made of plated steel, includes collar, mould body and base plate.

The Rammers are used to compact the soil sample in the Proctor Moulds and made of plated steel. Different models are available conforming to the relevant standards.

### Technical Specification

Model Number	Description
<b>SR104</b>	Standard Proctor Mould Internal dia. 105mm, body height 115.5mm Capacity: 1000 cu.cm 1/30 cu.ft with collar and base plate
<b>SR103</b>	Standard Proctor Rammer 2.5kg – 300mm fall, 50mm dia. Dimension: Ø 65mm x 400mm
<b>SR105</b>	Modified Proctor Rammer 4.5kg – 450mm fall, 50mm dia. Dimension: Ø 65mm x 700mm





## VIBRATING COMPACTION HAMMER



Standard: BS 1377:4, 1924:2

### Description

Used for the compaction of proctor and CBR soil specimen. By changing the tamping foot, it can also used for compacting concrete cubes or beam specimens and compacting asphalt in percentage refusal density (PRD) tests.

### Technical Specification

Model Number	SH028
Impact Rate	2900/min
Power	240 V, 1 ph, 50/60 Hz, 1200 W

### Accessories

Description	Qty
Compacting Frame	1 no
Proctor Tamping Foot (Ø 95mm)	1 no
Proctor, CBR & PRD Tamping Foot Ø 145mm	1 no
100mm Cube Tamping Foot 75 x 50 mm	1 no
150mm Cube Tamping Foot 140 x 100 mm	1 no
Steel Shank 300mm (L)	1 no

## HAND AUGER APPARATUS



Standard: ASTM D420/D1452, AASHTO T86/T202

### Description

Used to obtain samples for general exploration in soil investigation. We also offer 80mm and 150mm dia. hand auger sets. Gravel auger head for gravel and sand sampling, and Dutch auger head for fine silty sand.

### Technical Specification

Model Number	Description
SA100	<b>100mm dia. Hand Auger Set</b> Consists of:- 1 x Auger Head 100mm dia. 3 x Extension Rod 1m (L) 1 x Auger 'T' Handle
Accessories: SA-100-2B	Extension Rod 1m (L)



## TROPICAL PEAT AUGER SET

Standard: ASTM D420, D1452, AASHTO T86, T202

### Descriptions:

KONEG Tropical Peat Auger Set for sampling peats and soft clays. The set comes complete with accessories allowing sampling down to a depth of 15 meters in suitable conditions. Supplied in a strong aluminum carry case.



Push and pull handle



### PEAT SAMPLING UNIT

Sample length 50cm, diameter 52mm  
Sample volume 530 ml,  
Sample Specification – semi disturbed  
and vertical position

### Technical Specifications:

Model Number	SPA-262
<b>Unit consists of:-</b>	
'T' Handle c/w Synthetic Detachable Grip	1 no
Peat Sampler Unit	1 no
Ø 20mm Breadth Bend Spatula	1 no
Extension Rod (Full length)	14 nos
Extension Rod (Half length)	2 nos
Push & Pull Handle	1 no
Maintenance Kit	1 set
Aluminium Transport Case	1 no



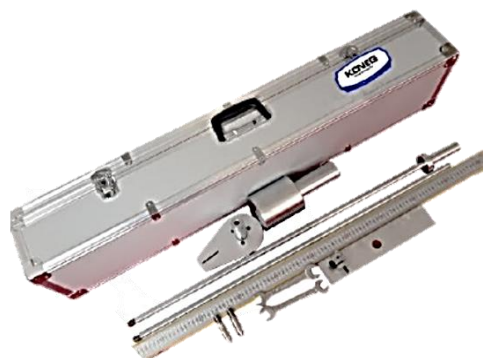
## DYNAMIC CONE PENETROMETER

Standard: ASTM D6951-03, BS 1377, 1924, 812, EN 932-1

### Description:

This portable hand operated equipment is designed to obtain a direct and rapid in-situ evaluation of the structural strength of road pavement layers constructed with unbound materials.

The test is performed with continuous penetrations at approx. 800mm depth with max. depth of 2m by using extension rods.



### Technical Specifications:

Model Number	SDCP-282
Slide Hammer	8kg
Drope of Hammer Measurement	575mm
Penetration Cone	60° and diameter 20mm
Weight	31kg
Packing Size	1060 x 170 x 140 mm

### Additional Accessories:

DCP-2821A	Penetration Rod 910 mm
-----------	------------------------

### The DCP apparatus consists of the following:-

Slide Hammer DCP-8-007	8kg	1 pc
Penetration Cone DCP-8-001	60° x ø 20 mm	2 pcs
Pentration Rod DCP-8-002	910mm	2 pcs
Guide Rod DCP-8-003	803mm	1 pc
Steel Ruler DCP-8-004	1000mm	1 pc
Hand Guard Plate DCP-8-005	300mmx60mmx8mm	1 pc
Coupling Clamping Ring DCP-8-006	105mm	1 pc
Lifting Handle		1 pc
Wrenches		1 kit
Carry Case		1 pc

## MACKINTOSH/JKR PROBE APPARATUS



### Description:

This equipment is particularly useful for initial site investigation work in remote area. Use in conjunction with control boreholes considerable area can be investigated quickly and cost effectively. The set capable probing up to 13 meters depth depending on ground condition.

### Technical Specifications:

Model Number	SL102 - Mackintosh Probe Apparatus	Model Number	SL103 - JKR Probe Apparatus
Weight	29kg	Weight	39kg
13 nos.	Penetration Rod (1.2m each)	13 nos.	Penetration Rod (1.2m each)
13 nos.	Coupling	13 nos.	Coupling
2 nos.	Pipe Wrenches	2 nos.	Pipe Wrenches
2 nos.	Penetration Cone 30° (MAC)	2 nos.	Penetration Cone 60° (JKR)
2 nos.	Hammer Nut (MAC)	2 nos.	Hammer Nut (JKR)
1 no.	Hammer (MAC)	1 no.	Hammer (JKR)
1 no.	Lifting Handle	1 no.	Lifting Handle
1 no.	Heavy Duty Steel Carrying Case	1 no.	Heavy Duty Steel Carrying Case





## CBR FIELD TEST SET (CBR INSITU), Model Number: SC107

Standard: BS 1377, ASTM D1883, AASHTO T193

### Description

Used in road construction to enable the bearing of soil to be determined quickly and efficiently on-site.

### Technical Specifications

Model Number	Description	Qty
SC107-2J	50kN Mechanical Jack (Single Speed) c/w Spiral Ball Attachment	1 no
SC107-5E	Extension Rod Set consist of length:- 50mm x 1, 102mm x 1, 305mm x 1, 610mm x 1 and 915mm x 1	1 set
SC107-3P	Penetration Piston/Plunger	1 set
SC107-8A	Dial Gauge Holder	1 no
SC107-4W	4.5kg Ring and Split 4.5kg Weight	1 set
SC107-3D	Datum Bar Set (1400mm (L) Datum Bar, Tripod Set and Holder Set)	1 set
SC107-1T	Tool Kits (Spanner No. 17 and Allen Key)	1 set
SC108-4A	Dial Gauge 25mm x 0.01mm	1 no
SC107-1S	Steel Carrying Case	1 no
PR50KN	Proving Ring 50kN	1 no



Conversion Frame Set Up



### Optional Accessories

Model Number	Description
SC106-1A	Laboratory Conversion Frame
SC106-2B	Plunger Guide Bar
SC107-1J	50kN Mechanical Jack (Double Speed) c/w Spiracle Ball Attachment



50kN Mechanical Jack (Double Speed)

## CALIFORNIA BEARING RATIO (C.B.R)

Standard: BS 1377:4/1924:2, ASTM D1883, AASHTO T193, NF P94-078/P94-093

### Description

CBR method are developed by the California State Highway Department, used for the laboratory evaluation of subgrade and subbase materials in road construction.

### Technical Specifications

Model Number	Description
SC108-1A	CBR Mould Body c/w Collar and Perforated Base Plate
SC108-2A	Perforated Plate with Adjustable Stem (Swell Plate)
SC108-3A	Dial Gauge Tripod
SC108-4A	Dial Gauge (25mm x 0.01mm division)
SC108-5A	Solid Base Plate for CBR Mould
SC108-6A	Spacer Disc with "T" Handle
SW-01R	Annular Surcharge Weight 2kg (Ring Type)
SW-01H	Slotted Surcharge Weight 2kg (Horseshoe Type)
SW-01S	Split Surcharge Weight 2kg
SW-02R	Annular Surcharge Weight 2.27kg (Ring Type)
SW-02H	Slotted Surcharge Weight 2.27kg (Horseshoe Type)
SST-125L	Soaking Tank Capacity: 125L Dimension: 880mm x 540mm (L x W) Top, 830mm x 520mm (L x W) Bottom Overall Height: 280mm





## SPEEDY MOISTURE TESTER

Standard: BS 812, ASTM D4944, AASHTO T217, EN 413-2, 459-2, 1015-4, DIN 4211



### Descriptions:

The Speedy Moisture Tester is a portable system comprising a vessel with an integral pressure gauge a weighing scale and carries case. A small sample of the material is prepared, weighed and placed into the vessel. The reagent is then added to the vessel.

The reagent is then added, and the vessel is sealed and shaken to mix the reagent with the sample.

Free moisture within the sample reacts with the reagent to produce a gas and pressure rise within the vessel that is proportional to the amount of moisture.

The moisture content value is then read directly from the calibrated pressure gauge.

Speedy vessel manufactured from cast aluminium and fitted with a calibrated pressure gauge with a moisture measurement range of 0 – 25%. With 0.2% Gauge divisions.

Designed for the most demanding on-site conditions, the waterproof and durable case offers high levels of protection. The models comprise: Speedy Moisture teste, electronic balance, bottle brush, measuring scoop, steel ball, moisture content tin and calcium carbide.

### Technical Specifications:

Model Number	SSMT050	SSMT025
Moisture Range	50%	25%
Gauge Sensitivity	0.5% / Div	0.2% / Div.
Dimension (mm)	350 (L) x 280 (W) x 130 (H)	
Approx. Weight	5 kg	

### Accessories:

Model Number	SCC0500
<b>Calcium Carbide Powder</b>	
Supplied in 500g container.	
<i>Important: Calcium Carbide is a hazardous substance. For export orders, the container of calcium carbide is removed from the case and packed separately.</i>	
<i>Attention is drawn to the limitations imposed on the form of transportation. Only in special circumstances can Calcium Carbide be transported by air.</i>	





## AGGREGATE IMPACT VALUE (AIV)

Standard: BS812

### Description:

The Aggregate Impact Value machine has been developed for determining the impact value of aggregates. Manufactured from plated steel against corrosion, a counter fitted to the machine automatically records the number of blows delivered to the sample.



### Technical Specifications:

<b>Model Number</b>	<b>AIV0515</b>
<b>Impact hammer weight</b>	13.75kg $\pm$ 0.05kg
<b>Height of fall hammer</b>	380 $\pm$ 5mm
<b>Impact cup</b>	102 x 50mm
<b>Test sieve</b>	15.0mm, 10.0mm, 2.50mm
<b>Circular section metal straight stick</b>	10 x 230mm, one part is semicircle
<b>Gauge metal cylinder</b>	Cylinder 75 $\pm$ 1 x 50 $\pm$ 1mm

## AGGREGATE CRUSHING VALUE (ACV)

Standard: BS812-110

### Description:

Aggregate Crushing Value provides a relative measure of the resistance of an aggregate to crushing under a gradually applied compressive load.

The aggregate crushing value provides a relative measure of the resistance of an aggregate to crushing under a gradually applied compressive load. Supplied complete with cylinder, plunger, base plate, tamping rod, and measure.

### Technical Specifications:

Model Number	
ACV0150	ACV0075
150mm nominal dia. steel cylinder, plunger and base plate. Weight: 16.6kg	75mm nominal dia. steel cylinder, plunger and base plate. Weight: 3.5kg
Metal measure 115mm dia. x 180mm deep. Weight: 870g	Metal measure 57mm dia. x 90mm deep. Weight: 350g
Tamping rod 16mm dia. x 600mm long with rounded end.	Tamping rod 8mm dia. x 300mm long with rounded end.





## BULK DENSITY MEASURES

Standard: EN 1097-3, BS 812, NLT 156, UNI 8520-6, CNR No. 62-63-64, ISO 6872

### Description

The Bulk Density Measures are used to determine the weight per cubic meter of freshly mixed and compacted concrete.

### Technical Specifications

Model Number	Capacity (litre)
AUM001	1
AUM005	5
AUM010	10
AUM015	15
AUM020	20
AUM030	30



## PYCROMETER

Standard: BS 1377, 812-2, EN 1097-7, 1997-2, ASTM D854, AASHTO-T10

### Description

Glass jar supplied complete with cone and rubber seal. Capacity 1 litre.



### Technical Specifications

Model Number	Description
SP228	Pycnometer 1 Litre

## SAND ABSORPTION CONE & TAMPER

Standard: BS 812-137, AASHTO T100, ASTM D854, EN 10977

### Description

The Sand Absorption Abraham Cone Set is used in determining the specific gravity and water absorption of fine aggregates smaller than 10 mm. The apparatus is manufactured from plated steel for protection against corrosion.

### Technical Specifications

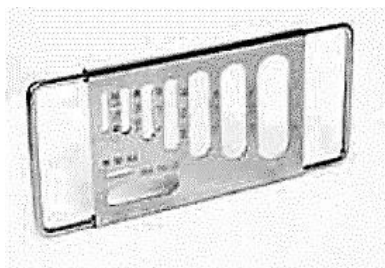
Model Number	Description
SAC-2502	Sand Absorption Cone and Tamper





## FLAKINESS & ELONGATION GAUGE

Standard: EN 12350-6 ASTM C29 C138, BS 812-105.1



CA009



CA008

### Description:

Flakiness Gauge is used to determine if the aggregate particles are to be considered as flaky, i.e. their thickness is less than 0.6 of their nominal size.

Length Gauge classifies aggregate elongation by measuring the length of individual particles. Aggregate particles are considered elongated when their length is more than 1.8 of their nominal size. Length Gauge test is not applicable to material retained on 63.0 mm BS test sieve.

### Technical Specifications:

Model Number	Description
CA008	<b>Elongation/Length Gauge</b> Aggregate particles are considered elongated when there is more than 1.8 of their nominal size.
CA009	<b>Flakiness/Thickness Gauge</b> Used to determine if aggregate particles are to be considered flaky, i.e. their thickness is less than 0.6 of their nominal size.

## DENSITY BASKET

Standard: ASTM C127, AASHTO T85, BS 812:2



### Description:

Used in specific gravity tests. Made from stainless steel. Complete with handles.

### Technical Specifications:

Model Number	Dimension	Mesh Size
DS-612	200mm dia. x 200mm high	3mm
DS-613	250mm dia. x 200mm high	3mm
DS-615	200mm dia. x 180mm high	3mm

**AUTOMATIC MARSHALL COMPACTOR**

Standard: BS 598-107, EN 12697-10,30, ASTM D1559/D5581, D6926, AASHTO T245

**Description:**

The Automatic Compactor is made of rugged construction to stand work.

It provides a consistent and even degree of compaction. The Compactor comprises of a compaction pedestal, automatic control system, the secure base of 300 mm square x 25 mm thick steel plate.

After setting the required number of blows the Automatic Compactor lifts the 4535g  $\pm$  20g hammer and releases it at the desired height of 457mm  $\pm$  1.5mm

The control system comprises of operating light, start/stop switch and a reading counter used to set the desired number of blows.

**Technical Specifications:**

Model Number	BM305
Hammer Weight	4.5kg $\pm$ 10mm
Drop Height	457mm $\pm$ 1.5mm
Hammer Diameter	985mm
Blow Frequency	60 $\pm$ 5 blows / minute
Mould Spec.	$\varnothing$ 101.6mm $\pm$ 0.2mm x 63.5mm
Power	240 V
Weight (approx..)	100 kg

**Optional Accessories:**

101.6mm + 0.1mm Marshall Stability Mould  
Model Number: BM287-1A



## MANUAL MARSHALL COMPACTOR

Standard: BS 598:107, ASTM D1559

### Descriptions:

Manual Marshall Compactor has been designed for hand compaction. To compact the specimen manually. Complete with hammer to be fall into the mould, hammer can be easy lifted and can be clocked after lifted.

### Technical Specifications:

Model Number	SM001
Hammer weight	4.536kg
Height of fall	457.2mm
Compaction head diameter	98.5mm
Specimen size	101.6 mm Ø x 87mm



## THERMOSTATIC DIGITAL DISPLAY WATER BATH WITH COVER

Standard: ASTM D1559, BS 598-107, AASHTO T245, DIN 1996

### Descriptions:

Water bath is used as constant temperature for Marshall specimens. It keeps temperature at boiling point. Constructed with stainless steel inside chamber and exterior case in painted steel sheet.

### Technical Specifications:

Model Number	BW032	BM022
Capacity	32 litres	22 litres
Temperature range	+10°C to 100°C	+10°C to 100°C
Temperature fluctuation	≤ ±0.5°C	≤ ±0.5°C
Power	220V, 1.5kw	220V, 1.5kw



BM032



BM022

## ELECTRIC HOT PLATE

### Descriptions:

Used for a variety of heating applications in the laboratory.

### Technical Specifications:

Model Number	BH085
Max. temperature	400°C
Table size (L x W)	400 x 280 mm
Power	1.8kw





## MOTORISED MARSHALL STABILITY COMPRESSION 50kN

Standard: BS 598:107, ASTM D1559

### Descriptions

Bench mounting type machine, with rigid and compact design, by using DC motorised drive system to achieve more reliable and high accurate testing result.



### Technical Specifications

<b>Model Number</b>	<b>BM287</b>
<b>Capacity</b>	50kN
<b>Testing speed</b>	50.8mm/min
<b>Plunger travel</b>	60mm
<b>Vertical clearance</b>	730mm
<b>Horizontal clearance</b>	270mm
<b>Power</b>	240V

### Unit consists of:

<b>Description</b>	<b>Qty</b>
100mm Marshall Stability Mould	1 no
Proving Ring 50kN	1 no
Extended Plunger	1 no
Dial Gauge 25mm x 0.01mm	1 no
Cranleed Handle	1 no





## AUTOMATIC MARSHALL STABILITY COMPRESSION TESTER 50KN (BM288)

### Description:

The Marshall Stability Machine is used to determine the and flow values of bituminous mixtures.

The Marshall is composed by a robust and compact two-column frame with adjustable upper cross beam driven by an electro-mechanical ram with a maximum capacity of 50 KN and a data acquisition and processing system.

The Marshall Stability Machine can be hand operated by a lateral hand wheel for calibration purposes. The mechanical jack raises the lower cross beam at a constant speed of 50.8 mm/min.

The limit switches are provided for both, bottom and top limit of travel.

The Automatic measuring system consists of a 50KN capacity strain gauge load cell that is fitted to the upper cross beam to read stability values and 25mm x 0.001mm displacement transducer fitted to Break Head.

The Manual measuring system consists of a 50 KN capacity load ring and dial gauge graduated 0.01mm with 25mm travel.

The Marshall Stability Machine comes complete with a lateral hand wheel for calibration purposes and a 100mm breaking head.

Standard: BS 598-107, EN 12697-4, ASTM D1559, AASHTO T245



### Technical Specifications:

Model Number	BM288
Max. capacity	50kN
Testing speed	50.8mm/min
Plunger travel	70mm
Displacement probe travel	15mm x 0.1mm
Vertical clearance	300mm
Horizontal clearance	270mm
Approx. Weight	100 kg
Power	240V

### Unit Consists of:

50kN 'S' Type Load Cell	1 no
Displacement Transducer Probe	1 no
4" Diameter Stability Mould	1 no
Handle	1 no
Mini Printer	1 no





Standard: ASTM D1559, D5581, AASTHO T245, BS 598:107, BS EN 12697

## AUTOMATIC MARSHALL STABILITY COMPRESSION TESTER 50KN (BM300)

### Description

- Integrated design of the overall structure, the control system is completely built into the host.
- With speed closed loop control, the loading speed is constant, no vibration and no noise.
- 10.1-inch touch screen can display more information on the same screen, and the graph details are more intuitive.
- With USB master/slave interface, it can connect to the USB port of PC, use test software to operate the instrument test, or insert U disk to export test data.

### Technical Specifications

<b>Model Number</b>	<b>BM300</b>
<b>Max. capacity</b>	50kN
<b>Testing speed</b>	50.8mm/min
<b>Displacement probe travel</b>	15mm x 0.005 mm
<b>Flow value range</b>	25mm
<b>Accuracy</b>	0.5%
<b>Pressure head inner diameter</b>	101.6 ± 0.2 mm
<b>Voltage</b>	240V

### Unit consists of:-

Description	Qty
Tester body	1 no
Pressure head inner Ø 101.6mm	1 no
Pressure sensor	1 no
Displacement sensor	1 no
Power cord	1 no
Printer paper roll	1 no



## AUTOMATIC BINDER EXTRACTION UNIT

Standard: DIN 1996, CNR a. VII No. 38, ASTM D2172

### Description

Automatic binder extraction unit is a test method for determination of asphalt content in mixture by reflux extraction. It is suitable for testing and using the amount of asphalt for asphalt pavement construction and evaluating the construction quality. It is also suitable for testing the asphalt content of asphalt pavement in old road survey. With USB master/slave interface, it can connect to the USB port of PC, use test software to operate the instrument test, or insert U disk to export test data.

### Technical Specifications

<b>Model Number</b>	<b>BR001</b>
<b>Sample capacity</b>	1000g to 3000g
<b>Extraction time</b>	20 to 40 min
<b>Centrifugal shaft speed</b>	6000 rpm
<b>Power</b>	4 kW
<b>Voltage</b>	415 V
<b>Net weight</b>	386 kg



- Low vibration noise
- LCD display, recycling status graphic display
- With internal circulation cooling system



Standards: ASTM D2172, AASHTO T164: Method A, CNR No. 38

## Description

Centrifuges are used for the determination of bitumen percentage in bituminous mixtures.

### CENTRIFUGE EXTRACTOR APPARATUS 3000G

#### Technical Specifications

Bowl capacity	3000g
Speed	1300-3000 rpm
Bowl diameter	280mm
Operating temperature	<35°C
Relative humidity	<85°C
Power	750 W
Voltage	220-240V, 50Hz, 1/2ph



Model Number: BC300

### CENTRIFUGE EXTRACTOR APPARATUS 1500G

#### Technical Specifications

Bowl capacity	1500g
Speed	1300-3000 rpm
Bowl diameter	280mm
Operating temperature	<35°C
Relative humidity	<85°C
Power	750 W
Voltage	220-240V, 50Hz, 1/2ph



Model Number: BC301

## Accessories

### Filter Disc

Filter disc for Centrifuge Extractor, pack of 100pcs.

Model Number	Dimensions		Thickness
	OD	ID	
BF045	250mm	45mm	1mm
BF125	254mm	125mm	1mm
BF127	254mm	127mm	1mm
BF140	295mm	140mm	1mm
BF160	320mm	160mm	1mm



\*OD = Outer Diameter

\*ID = Inner Diameter



## SOLVENT RECOVERY UNIT

Standard: ASTM D5404, AASHTO TP2

### Description

Used to recover the solvent liquid after its use for the extraction tests. This unit has been designed to recover non-flammable solvents and consists of two stainless steel chambers, one for dirty solvent and the other for the cleaned solvent. An electric heater distills the solvent, which then passes through a water-cooling system and drops into the second



### Technical Specifications

Model Number	BR005
Range of temperature control	50 - 200°C
Power of heating element	1000 W
Capacity	10 l/h
Voltage	240 V
Dimension	520 x 460 x 460 mm
Weight	23.5kg

## PORTABLE SKID RESISTANCE TESTER

Standard: EN 1097-8,  
ASTM E103, BS  
812:114, NLT 174,  
CNR No. 105, 140



### Technical Specifications

Model Number	BR062
<i>Unit consists of:-</i>	
Spray Bottle	1 no
Rubber Slider	1 no
Brush	1 no
Wrench	1 no
Ruler	1 no

### Description

Used for the measurement of surface friction properties, the apparatus is suitable for both site and laboratory applications and for Polished Stone Value tests using curved specimens from accelerated polishing tests. The apparatus consists of an adjustable pendulum arm and a spring-loaded rubber slider mounted on the end of the arm. During operation the pendulum is raised and then allowed to swing freely, allowing the edge of the rubber slider to skid across the surface of the road or sample.

## ROAD FLATNESS CHECKER

### Description

Used for detecting road surface irregularities. Vertical deviations of the surface are recorded on the wireless console.

### Technical Specifications

- Displacement range: 0-40mm, accuracy: 0.25mm
- Road range: Unlimited, accuracy 0.1m
- Measure the outside diameter of the wheel:  $160 \pm 1$ mm, measure wheel rubber surface hardness: HA (55-70)
- Radio frequency: 433mh
- Communication distance: Open field 200mm
- Battery power supply, continuous measurement for 20 hours, at least 150km distance
- Can be human or motor vehicle traction, minimum turning radius 5m, detection speed is 6-8km/h, max. speed: 12km/h





## PRESSURE FILTER APPARATUS

Standard: BS 598-102, EN 12697-1

### Description:

The 4 litre pressure filter consists of a plated steel pressure vessel with a filter support and pressure gauge.

Pressure Filter Apparatus is used for determining the bitumen content.

The pressure filter consists of a plated steel pressure vessel with a filter support and pressure gauge.

Foot pump, test sieve, filter paper and filter filler funnel.



### Technical Specifications:

<b>Model Number</b>	<b>SP 0140</b>
<b>Overall dimension</b>	292mm dia. x 382mm
<b>Pressure gauge range</b>	0-58 psi / 0-4 bar
<b>Accessories</b>	1 no. Foot Pump 1 box Whatman #1 Filter Paper OD 270mm ID 33mm (50pcs/box)

## BOTTLE ROLLER APPARATUS

Standard: BS 598-102, BS 812, EN 12697-1, EN 13108



### Description:

This unit can be bench or floor mounted. It is of a sturdy construction and designed to rotate 2 bottles from 600ml to 7000ml capacity or 1 bottle of 12000ml capacity.

Steel bottles 600ml, 2500ml and 7000ml.

### Technical Specifications:

<b>Model Number</b>	<b>GN 0290</b>
<b>Main shaft rotation</b>	Adjustable up to 120rpm
<b>Bottle track</b>	2 units (various size)
<b>Dimension (L x W x H)</b>	910 x 560 x 295 mm
<b>Power</b>	240V, 370W, 50/60Hz, 1ph, 3 Amp
<b>Unit consists of</b>	2 nos Movable Rotation Shaft

### Accessories:

<b>Model Number</b>	<b>Description</b>
<b>SP 0131</b>	Steel Bottle 600ml c/w Stopper



## BINDER RECOVERY APPARATUS

Standard: BS 598-102, BS 5284, EN 12697-1

### Description:

The Binder Recovery Apparatus is used to remove the solvent from the binder/solvent solution in order to determine directly the total content binder in the aggregate/binder mixtures.

The apparatus consists of a power operated vacuum pump, fit with vacuum regulator, producing a vacuum down to 200 mbar, a thermostatically controlled water bath, and two flat-bottomed flasks 250ml capacity with rubber bungs and connections, all necessary fittings and connections complete the set.

The water bath can be used for other application as well.



### Technical Specifications:

<b>Model Number</b>	<b>AS 0126</b>
<b>Power rating</b>	1380 W
<b>Weight approx.</b>	23kg

### Accessories:

Model Number	Description
AS 0126-1	Flat bottom flask
AS 0126-2	Rubber bungs
AS 0126-3	Vacuum regulator
AS 0126-4	Vacuum pump
AS 0126-5	Water bath

## FILTRATION APPARATUS

### Description:

Filtration Apparatus set consists of:

- 1 x Retort Stand
- 1 x Retort Clamp
- 1 x Glass Buret 100ml

### Technical Specifications:

<b>Model Number</b>	<b>BFA219</b>
<b>Approx. weight</b>	1.6kg
<b>Dimension (L x W x H)</b>	135 x 190 x 755 mm





## DIGITAL MANUAL CONCRETE COMPRESSION MACHINE

Standard: BS 1610, ASTM E4/C39, DIN 51220, BS1881:115

### Description:

Used to measure the compressive strength of building materials such as brick, stone and concrete.

Key Features: Manual loading, digital load measurement. The screen displays loading speed, breaking peak value, data storage, and compression strength conversion. Instant data printout on console.

### Technical Specifications:

Model Number	CM-2000
Minimum resolution	0.1kN
Maximum load capacity	2000kN
Minimum resolution	0.1kN
Accuracy	Class 1
Maximum distance between pressure plates	320mm
Upper and lower pressure plates size	220mm, 250mm
Piston diameter x Max. stroke	Ø 250mm x 80mm
Motor power	0.75 kW
Voltage	240V, 50Hz
Overall dimensions	900 x 360 x 1300 mm
Net weight	650 kg



## AUTOMATIC CONCRETE COMPRESSION MACHINE

Standard: BS 1610, ASTM E4/C39,  
DIN51220, BS1881:115

### Description:

Used to measure the compressive strength of building materials such as brick, stone and concrete.

Key Features: Manual loading, digital load measurement. The screen displays loading speed, breaking peak value, data storage, and compression strength conversion. Instant data printout on console.

### Technical Specifications:

Model Number	CM-2001
Maximum load capacity	2000kN
Minimum resolution	0.1kN
Maximum distance between pressure plates	340mm
Upper and lower pressure plates size	250mm x 250mm
Piston stroke	0-50 mm
Motor power	0.75 kW
Voltage	240V, 50Hz
Overall dimensions	1110 x 650 x 1400 mm
Net weight	850 kg







## CONCRETE TEST HAMMER

Standard: ASTM C805, BS 1881:202, NF P18-417, DIN 1048, UNI 9189, PR EN 12504:PART 2

### Description:

The concrete test hammer is the traditional instrument used for the non-destructive testing of hardened concrete. This easy-to-use instrument provides a quick and simple test for obtaining an immediate indication of concrete strength in various parts of a structure.

The verifiable strength is between 5 and 120N/mm<sup>2</sup>

There are two models available:

- Concrete test hammer normal type complete with carrying case, PSI curve and carborundum stone.
- Concrete test hammer digital type complete with carrying case, abrasion stone, tools kit set, charger, USB cable, software CD and user manual.



HT225

### Technical Specifications:

Concrete Test Hammer 'N' Type	
Model Number	HT225
Impact energy	0.225 mkg (2.207 Joule)
Measuring range	10 to 70 N <sup>2</sup>
Weight	1.8kg
Case dimension (L x W x H)	320 x 190 x 90 mm

### Technical Specifications:

Digital Concrete Test Hammer	
Model Number	HT001
Impact energy	0.225 mkg (2.207 Joule)
Measuring range	10 to 70 N <sup>2</sup>
Indication consistency	≤±1 (The difference between the pointer reading and the screen reading)
Display screen	2.0 inch (220 x 176 pixel)
Language	English
Storage quantity	640,000 data
Power source	3.7V lithium battery 1050mah
Data processing	Automatic data analysis, export test report
Weight	1kg
Case dimension (L x W x H)	325 x 205 x 125 mm



HT001

## TEST ANVIL FOR CONCRETE TEST HAMMER CALIBRATION



### Technical Specifications:

Model Number	Description
HA005	The Test Anvil is an essential semi-spherical steel block made of hard steel C45 with a diameter of about 150mm and 150mm in height. A semi-spherical shape which mirrors the rebound hammer strike piston surface has been created on one of the two flat surfaces.





## CAST IRON CONCRETE MOULD

Standard: EN 12390-1, ASTM C39/C192, AASHTO T23/T126, BS 1881:108

### Description:

The cast iron steel cube molds are manufactured from heavy-duty durable material and per the dimension and tolerances acceptable by the standard.

Each mold is numbered and tested for conformity. There are several models and sizes available 4 parts, 100mm and 150mm.

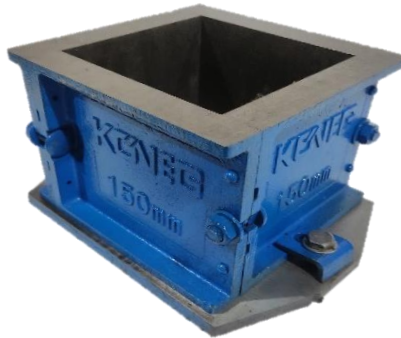
The Tamping Rod for compacting concrete into cube molds. This rod is made of steel bar it is 25mm square face x 380mm long with round side handle.

### Technical Specifications:

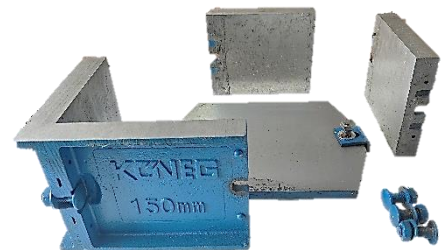
Model Number	Description	Parts	Weight
CM101	Cast Iron Cube Mould 100 x 100 mm - Complete with base plate	4	8.26kg
CM102	Cast Iron Cube Mould 150 x 150 mm - Complete with base plate	4	15.36kg



CM101



CM102



Detachable into parts

## THREE-GANG MOULD

Three-gang mould for 50mm mortar cubes manufactured from cast iron with simple cube release mechanism.

### Technical Specifications:

Model Number	Description	Weight
CM100	Cast Iron 3 Gang Mould 50 x 50 x 50 mm	3.34kg
CM103	Mild Steel 3 Gang Mould 50 x 50 x 50 mm	3.76kg

**Accessories:-**  
(CS011)  
**Metal Tamping Bar**  
380mm (L) x 25mm sq.



CM100



CM103



## PLASTIC CUBE MOULD

Standard: EN 12390-2, BS 1881-108, ASTM C157, ASTM C192



CMP09B



CMP12G



CMP08B

### Description:

Plastic Concrete Cube Moulds are one-piece units constructed of ABS plastic, used to mold consistent concrete compressive strength specimens for strength testing and set-time determinations. Compressed air is applied to a hole in the base to easily remove the molded specimen.

### Technical Specifications:

Model Number	Description	Weight
CMP08B	Plastic Cube Mould 100 x 100 mm (Black)	0.4kg
CMP09B	Plastic Cube Mould 150 x 150 mm (Black)	0.9kg
CMP12G	Plastic Cube Mould 150 x 150 mm (Green)	0.9kg



CMP10BS

### Description:

The Detachable Plastic Test Cube Mould is made with Acrylonitrile Butadiene Styrene (ABS) plastic and comply with EN 12390-1 standard. It consists of two identical halves and a base that are easy to assemble. The elements are coupled together by self-aligning nuts & bolts, which ensure an even, tight fit. It contains 8 sets of nuts and bolts in total.

### Technical Specifications:

Model Number	Description	Weight
CMP10BS	Detachable Plastic Cube Mould 150 x 150 mm	0.9kg

**Accessories:-**  
**EXTRACTOR BLOWER**  
Model Number: CMP10



CMP07G



CMP05G

### Description:

Plastic Concrete 3 Gange Cube Molds are one-piece units constructed of ABS plastic, used to mold consistent concrete compressive strength specimens for strength testing and set time determinations. Compressed air is applied to a hole in the base to easily remove the molded specimen.

### Technical Specifications:

Model Number	Description	Weight
CMP05B	Plastic 3 Gang Mould 50 x 50 x 50 mm (Black)	0.2kg
CMP05G	Plastic 3 Gang Mould 50 x 50 x 50 mm (Green)	0.2kg
CMP06B	Plastic 3 Gang Mould 100 x 100 x 100 mm (Black)	0.94kg
CMP07G	Plastic 3 Gang Mould 100 x 100 x 100 mm (Green)	0.94kg



## CAST IRON / MILD STEEL CYLINDER MOULD

Standard: EN 12390-1, ASTM C39/C192, AASHTO T23/T126, BS 1881:108

### Description:

The cylinder mould is made of cast iron and are all grinded by the lathe.



CMC150



CMC180M

### Technical Specifications:

Model Number	Description	Dimension (L x W x H)	Weight
<b>CMC100</b>	Cast Iron Cylinder Mould ø 100mm x 200mm	200 x 190 x 220 mm	8kg
<b>CMC150</b>	Cast Iron Cylinder Mould ø 150mm x 300mm	255 x 240 x 320 mm	15kg
<b>CMC160</b>	Cast Iron Cylinder Mould ø 160mm x 320mm	265 x 250 x 340 mm	17kg
<b>CMC170M</b>	Mild Steel Cylinder Mould ø 100mm x 200mm	140 x 140 x 210 mm	9kg
<b>CMC180M</b>	Mild Steel Cylinder Mould ø 150mm x 300mm	185 x 185 x 310 mm	13kg
<b>CMC190M</b>	Mild Steel Cylinder Mould ø 160mm x 320mm	195 x 195 x 330 mm	15kg

## PLASTIC CYLINDER MOULD

Standard: EN 12390-1, ASTM C78, C293, C39, 192, BS 1881:108

### Description:

The plastic cylinder mould is manufactured from rigid high-quality plastic that is weather-resistant and has an unlimited shelf life. Cured specimens can easily be molded from the mold.

### Technical Specifications:

Model Number	Dimension	Weight
<b>CMP100</b>	100 x 200 mm	0.5kg
<b>CMP150</b>	150 x 300 mm	1kg



Standard: BS 3892-1, 4551-1, EN 196-1, 413-2, 459-2, 1744-1, 1015-10, 11, 13454-2

## PRISM MOULD

### Description:

The prism mould is manufactured of steel with hardness over HV400 the surface is heat-treated to comply with the related standards.

### Technical Specifications:

Model Number	Dimension	Weight
<b>CM0140</b>	40 x 40 x 160 mm	12.5kg
<b>CM0141</b>	50 x 50 x 200 mm	8kg
<b>CM0142</b>	25 x 25 x 250 mm	6kg
<b>CM0143</b>	75 x 75 x 254 mm	9kg
<b>CM0144</b>	25 x 25 x 285 mm	6kg





## STEEL BEAM MOULD

Standard: EN 12390-1-2, ASTM C39, 192, AASHTO T23, T126, BS 1881:108



### Description:

Steel beam moulds are manufactured by dimensions and tolerances stated in the related standards.

The steel beam moulds are made of two-part, and clamp attached base plate steel moulds are designed to be durable, resistant and easy to clean.

### Technical Specifications:

Model Number	Dimension	Weight
<b>CBM1004</b>	100 x 100 x 400 mm	19kg
<b>CBM1005</b>	100 x 100 x 500 mm	24.5kg
<b>CBM1505</b>	150 x 150 x 600 mm	32kg
<b>CBM1705</b>	150 x 150 x 750 mm	43kg

## Sample Fresh Concrete

Standard: BS 1881:108, UNI 9416, PR EN 12350-1

## CONCRETE STEEL SCOOP



### Technical Specifications:

Model Number	Description	Weight
<b>CS1225</b>	125mm dia. x 250mm long, 5kg capacity, ideal for taking increments of concrete	0.8kg



## SLUMP TEST SET

### Description:

Standard: EN 12350-2, BS 1881:102, ASTM C143, AASHTO T119, UNI 9418, NF P18-305

Slump Cone test set is used for the determination of the consistency and workability of fresh concrete. The Concrete Slump Test is supplied complete with: Slump Cone, Slump Funnel, Base Plate, Tamping Rod, Rubber Mallet and Steel Ruler.

Model Number	Description
CS010	Slump Cone Test Set, chrome plated
Consists of:-	
CS010-1A	Slump Cone, chrome plated
CS010-2A	Tamping Rod, 600mm (L) x 16mm Ø
CS010-3A	Slump Funnel
CS010-4A	Stainless Steel Rule 300mm without graduation



### Technical Specifications:

	Dimension
CS010-1A	100±2mm Dia
	200±2mm Dia
	300x2mm Dia
	550x660x250mm Dia
	6 kg
CS010-2A	Ø 16x600mm
CS010-4A	300x1mm
CS010-5A	500x500x60mm

### Optional Accessories

Model Number	Description
CS010	Slump Cone Test Complete
CS010-1A	Slump Cone
CS010-2A	Tamping Rod
CS010-3A	Slump Funnel
CS010-4A	Steel Ruler
CS010-5A	Tray

Model Number	Description
CS020	Slump Cone Test Set Consists of:-
CS010-1A	Slump Cone, chrome plated
CS020-2A	Tamping Rod, 600mm (L) x 16mm Ø
CS013	Base Plate, 420mm sq. x 3mm







## COMPACTING FACTOR APPARATUS

Standard: BS 1881-103 5075

### Description:

#### MODEL NUMBER: CF 008

The apparatus enables a check to be made on the weight of concrete when it falls from fixed heights into a cylindrical container of standard capacity.

The apparatus consists of two conical hoppers each with a hinged strap with a quick-release mechanism to allow free flow of the concrete sample.

A cylindrical mold is fitted beneath the hoppers.



### Accessories:

Model Number	Description
CS014	Steel Tamping Rod, 600mm (L) x 16mm ø

## PLASTIC CONCRETE CURING TANK C/W OUTLET

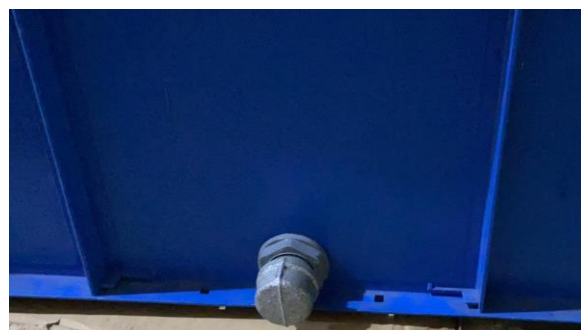
Standard: ASTM C31, C192, C511 – pr EN 12390-2, BS 1881:111, NF P18-404, UNE 7240, UNI 6127, 6128

### Technical Specifications:

Model Number	Capacity	Outer Dimension	Inner Dimension	Overall Height	Capacity base on 150mm cube
CCT-1300 (with frame)	1300 litres	1980 x 1080mm	1880 x 1000mm	650mm	Approx. 260 nos.
CCT-1280 (without frame)	260 litres	1180 x 775mm	1120 x 695mm	300mm	56 nos.



CCT-1280 (WITHOUT FRAME)



OUTLET POINT



CCT-1300 (WITH FRAME)





## ELECTRICAL CONCRETE MIXER WITH DRUM

Standard: EN 12390-7, 1097-6, BS 1991:114

### Description

Used to prepare concrete specimens and samples.

### Technical Specifications

<b>Model Number</b>	<b>CCM240</b>
<b>Drum capacity</b>	240 Litres
<b>Drum speed</b>	20-25 rpm
<b>Motor speed</b>	2800 rpm
<b>Voltage</b>	240 V
<b>Power</b>	750 W



## CEMENT MORTAR MIXER WITH 3 LITRES BOWL



Standard: EN 196-1, 413-2, 459-2, BS 3892, ASTM C305,

### Description

A robust mixer for the efficient mixing of cement mortars as required by the relevant technical specifications.

### Technical Specifications

<b>Model Number</b>	<b>CM003</b>
<b>Bowl capacity</b>	3 Litres
<b>Stirring speed</b>	Low speed $62 \pm 5$ rpm High speed $125 \pm 10$ rpm
<b>Voltage</b>	240 V

## CEMENT MORTAR MIXER WITH 5 LITRES BOWL

### Technical Specifications

<b>Model Number</b>	<b>CM005</b>
<b>Bowl capacity</b>	5 Litres
<b>Stirring speed</b>	Low speed $140 \pm 5$ rpm High speed $285 \pm 10$ rpm
<b>Voltage</b>	240 V





## GROUT FLOW CONE SET

Standards: ASTM C939, ASTM C6449

### Description

Test set for measuring the flow of grout for preplaced, aggregate concrete. Intended for neat grout and grouts containing fine aggregate capable of passing a No. 8 sieve and grouts which have an efflux time of less than 35 seconds.

### Technical Specifications

<b>Model Number</b>	<b>CFC0013</b>
<b>Upper diameter</b>	178mm
<b>Upper height</b>	76mm
<b>Lower diameter</b>	13mm
<b>Lower height</b>	38mm
<b>Thickness</b>	3mm
<b>Material</b>	Stainless steel

### Flow Cone Stand

Sturdy well-constructed steel stand to support flow cones so the top is level and the cone free from vibration.



## MARSH FUNNEL VISCOMETER

Standard: API RP 13B-1

### Description

The Marsh funnel viscometer is used to determine the quality of drilling mud. Funnel viscosity is the ratio of the speed of the sample as it passes through the outlet tube (shear rate) to the amount of force (fluid weight) that is causing the fluid to flow (shear stress). Made of plastic.



*\*Precision: When 1500ml standard distilled water was injected into the funnel, the outflow time of 946ml standard distilled water is 26±0.5s.*

### Technical Specifications

<b>Model Number</b>	<b>CMV-0355</b>
<b>Marsh funnel mesh size</b>	1.6mm
<b>Measuring cup</b>	2000ml

## CONCRETE VIBRATING TABLE 1000 X 1000 MM

Standard: EN 12350-6, EN 12350-7, EN 12390-2, EN 13286-50, 1354

### Description

It is used for moulding of test sample of concrete and mortar in the testing laboratory. Electric vibration table is used to compact the concrete specimens by vibrating method in the laboratory, field test and so on. It has the advantages such as high production efficiency, good vibration efficiency and compaction performance, stable quality, cramped construction, low noise, easy to operate and convenient to maintain and repair.



### Technical Specifications

<b>Model Number</b>	<b>CVB-1000</b>
<b>Table size</b>	1000 x 1000 mm
<b>Vibrating frequency</b>	2860 rpm
<b>Amplitude range</b>	0.3 - 0.6 mm
<b>Vibrator power</b>	1.5 kw
<b>Voltage</b>	240 V
<b>Maximum load</b>	220kg



## ELECTRIC DRILLING CORING MACHINE

### Descriptions

Used for laboratory and site coring for core sample such as rock and other material. It includes a side guard and a drainage water outlet, complete with clamp to provide secure during cutting.

### Technical Specifications

<b>Model Number</b>	<b>H-15</b>
<b>Max. drilling diameter</b>	150 mm
<b>Max. drilling depth</b>	400 mm
<b>Rated input power</b>	2200 W
<b>Rated frequency</b>	50 – 60 Hz
<b>No-load speed</b>	750 r.p.m.
<b>Voltage</b>	240 V
<b>Net weight</b>	24kg



### Accessories

#### Core Bit Set

OD / ID (mm)	Diameter	Model Number		
		Core Bit	Tube	Coupling
28.1 – 19.1	1"	MDB201	MDT201	MDC201
53.2 – 44.2	2"	MDB202	MDT202	MDC202
77.6 – 68.6	3"	MDB203	MDT203	MDC203
110.4 – 100.4	4"	MDB204	MDT204	MDC204
128.4 – 118.4	5"	MDB205	MDT205	MDC205
160.4 – 150.4	6"	MDB206	MDT206	MDC206
180.4 – 170.4	7"	MDB207	MDT207	MDC207
205.4 – 193.4	8"	MDB208	MDT208	MDC208





Model Number	Description
MB0250	Wash Bottle (Plastic) 250ml
MRG211	Rubber & Heat Resistant Gloves
MD300V	Desiccator 300mm, vacuum type
MGJ200	Gas Jar 200mm x 50mm with Lid
MS001	Spatula 27.5cm
MT0375	Crucible Tong (Mild Steel) 375mm
MV150	Vernier Caliper 150mm
MV200	Vernier Caliper 200mm
MV300	Vernier Caliper 300mm
BAC005	Airtight Container (5L)



## FIELD DENSITY TOOLS

Used to dig, level and remove soil during field density test.



Model Number	Description
SFD-T281	Metal Dibber
SFD-T282	Scraper
SFD-T283	Density Spoon
SFD-T284	Rubber Mallet
SFD-T285	Density Pick
SFD-T286	Chisel

## STAINLESS STEEL HEATING CONTAINER

Model Number	Description	Dimension
BC0280	Stainless Steel Heating Container c/w Lid Lock	280mm Ø x 290mm (H)
BC0030	Stainless Steel Heating Container	300mm Ø x 300mm (H)



## SPECIMEN CUTTING MACHINE

The cutting machine is suitable to cut various specimens with different sizes for asphalt, concrete, rock specimen and other materials.



Model Number	MCOM35
Brand	HIKOKI / HITACHI
Capacity: Cut-off wheel dia.	355mm
Power Input	2,200W
No Load Speed	3,800/min
Max Working Peripheral Speed	4,800m/min
Dimensions (L x W x H)	590 x 300 x 640 mm
Weight	17.0kg
Standard Accessories	Cut-off wheel, wrench


**MOISTURE CONTENT TIN WITH LID**

Model Number	Dimension	Material
<b>MC805</b>	80mm Ø x 50 mm (H)	Aluminium


**MEASURING BEAKER**

Model Number	Measuring Beaker, Glass	Model Number	Measuring Beaker, Plastic
	Capacity		Capacity
<b>MB101</b>	250ml	<b>MB201</b>	250ml
<b>MB102</b>	500ml	<b>MB202</b>	500ml
<b>MB103</b>	1000ml	<b>MB203</b>	1000ml
<b>MB104</b>	2000ml	<b>MB204</b>	2000ml


**MEASURING CYLINDER**

Model Number	Measuring Cylinder, Glass	Model Number	Measuring Cylinder, Plastic
	Capacity		Capacity
<b>MC101</b>	250ml	<b>MC201</b>	250ml
<b>MC102</b>	500ml	<b>MC202</b>	500ml
<b>MC103</b>	1000ml	<b>MC203</b>	1000ml
<b>MC104</b>	2000ml	<b>MC204</b>	2000ml


**MEASURING JUG (PLASTIC)**

Model Number	Capacity
<b>MJ101</b>	250ml
<b>MJ102</b>	500ml
<b>MJ103</b>	1000ml
<b>MJ104</b>	2000ml


**VOLUMETRIC FLASK (GLASS)**

Model Number	Capacity
<b>MV101</b>	250ml
<b>MV102</b>	500ml
<b>MV103</b>	1000ml
<b>MV104</b>	2000ml


**TRAYS**

Model Number	Tray, heavy duty galvanised steel
<b>MT102G</b>	100mm x 100mm x 20mm
<b>MT103G</b>	140mm x 140mm x 30mm
<b>MT104G</b>	200mm x 200mm x 40mm
<b>MT105G</b>	300mm x 300mm x 50mm
<b>MT106G</b>	400mm x 400mm x 75mm
<b>MT108G</b>	600mm x 600mm x 75mm
<b>MT118G</b>	1000mm x 1000mm x 1000mm



Model Number	Tray, stainless steel
<b>MT109S</b>	300mm x 300mm x 45mm
<b>MT110S</b>	400mm x 400mm x 45mm
<b>MT111S</b>	500mm x 500mm x 45mm



**GLOVES**

MRG211



MHG210

**Technical Specifications:**

Model Number	Description
MRG211	Rubber PVC Gloves, heavy duty
MHG210	Heat Resistant Leather Gloves

**SPECIFIC GRAVITY BOTTLE****Technical Specifications:**

Model Number	Capacity
MSG0250	25ml
MSG0500	50ml
MSG1000	100ml





## LOAD PROVING RING

Standard: BS 1610



### Description:

Used for load measurement and for calibration of testing machines. Made from special alloy steel. All standard models are supplied complete with dial gauge 5 x 0.002 mm. The repeatability is within the 0.2% and the accuracy is held within  $\pm 1\%$  over the upper 80% of the full range.

The load proving rings can be supplied in different versions depending upon the use and the machine to be used with.

The proving rings can be fitted for Marshall, CBR UU and unconfined test. Supplied with in-house calibration certificate & carry case.

### Technical Specifications:

Model Number	Description	Gauge Resolution (mm)	Weight
<b>PR2KN</b>	2.0 kN (200 kgf) Proving Ring	5 x 0.002	1.3kg
<b>PR10KN</b>	10.0 kN (1000 kgf) Proving Ring	5 x 0.002	1.6kg
<b>PR20KN</b>	20.0 kN (2000 kgf) Proving Ring	5 x 0.002	2kg
<b>PR30KN</b>	30.0 kN (3000 kgf) Proving Ring	5 x 0.002	3.8kg
<b>PR40KN</b>	40.0 kN (4000 kgf) Proving Ring	5 x 0.002	4kg
<b>PR50KN</b>	50.0 kN (5000 kgf) Proving Ring	5 x 0.002	4.5kg



## THERMOMETERS



MDT-2513



MDT-5200

### Technical Specifications:

Model Number	Description
<b>MDT-2513</b>	Dial Pocket Thermometer 25mm Ø, 0-120°C, 130mm (L)
<b>MDT-5120</b>	Dial Thermometer 50mm Ø, 0-280°C, 120mm (L)
<b>MDT-5200</b>	Dial Thermometer 50mm Ø, 0-280°C, 200mm (L)
<b>MDT-115</b>	Waterproof Thermometer (11.5cm) -5°C to 300°C

## POCKET DIAL TEST THERMOMETER

### Description:

Bimetal dial thermometers are an alternative to glass thermometers and have a stainless steel construction making them suitable for food products. These instruments have 24mm dials with 125mm stainless spike stem and have a case with pocket clip which may be used as a handle for the thermometer.



BT001

### Technical Specifications:

<b>Model Number</b>	<b>BT001</b>
<b>Brand</b>	Brannan (31/144/0)
<b>Dial diameter</b>	24mm
<b>Stem</b>	125mm
<b>Range</b>	0 to 250°C

## DIAL LABORATORY TEST THERMOMETER

### Technical Specifications:

<b>Model Number</b>	<b>BT003</b>
<b>Brand</b>	Brannan (31/287/0)
<b>Dial diameter</b>	51mm
<b>Stem</b>	200mm x 4mm diameter stainless steel
<b>Range</b>	0 to 250°C&F
<b>Case</b>	Steel with chrome bezel
<b>Window</b>	Plastic
<b>Pointer</b>	Black plastic
<b>Filing</b>	Dry
<b>Sensor mechanism</b>	Standard bimetal oil



BT003

### Features

- Bimetal dial test thermometer with spike stem
- Stainless steel stem suitable for corrosive liquids
- For handheld use and general test measurement



## THERMOMETERS

### WATERPROOF ELECTRONIC TEST THERMOMETER

#### Description:

Digital test waterproof thermometer probe (to IP65) with max/min memory and hold function. 120mm stainless steel waterproof thermometer probe. Supplied complete with pocket case and clip.

#### Technical Specifications:

<b>Model Number</b>	<b>BT004</b>
<b>Brand</b>	Brannan (31/162/0)
<b>Temperature range</b>	-40 to +240°C&F
<b>Divisions</b>	0.1°C
<b>Sample rate</b>	1 reading per second
<b>Accuracy</b>	+/-1°C between 0 and 100°C, otherwise +/-2°C
<b>IP rating</b>	IP 65
<b>Auto shut off</b>	After 10 minutes of non-use
<b>Standard battery life</b>	Approx. 1500 hrs



BT004

### PORTABLE HANDHELD DIGITAL INFRARED THERMOMETER

#### Technical Specifications:

<b>Model Number</b>	<b>BT009</b>
<b>Brand</b>	Smart Sensor (AT380)
<b>Temperature range</b>	-32 to 380°C (-26 to 716°F)
<b>Max measuring temperature</b>	120°C and above
<b>Accuracy</b>	±2% or ±2°C
<b>Distance spot ratio</b>	12:1
<b>Emissivity</b>	0.1 – 1.0 Adjustable
<b>Response time &amp; Wavelength</b>	500 mSec, 95% response
<b>Spectral response</b>	8-14 um
<b>Repeatability</b>	±1% or ±0.1°C
<b>Power</b>	2 x AAA battery
<b>Weight</b>	170g
<b>Size</b>	1330 x 930 x 370 mm



BT009

#### Features

- ✓ °C/°F selection
- ✓ Data hold function
- ✓ Laser target pointer function
- ✓ Backlight display function
- ✓ Auto power shut off



## THERMOMETERS

### PORTABLE 100MM DIAL FOR ASPHALT/BITUMEN

#### Description:

These robust instruments have diecast aluminium cases and chrome bezel, heavy duty handles and 16mm diameter spike ended stainless steel stems.

#### Technical Specifications:

<b>Model Number</b>	<b>BT002</b>
<b>Brand</b>	Brannan (15/411/0)
<b>Range</b>	0 to +400°C&F
<b>Stem length</b>	600mm
<b>Dimension</b>	310mm handle width, 100mm diameter dial plus stem length



BT002

## RAIN GAUGE

### PLASTIC RAIN GAUGE

#### Description:

A heavy duty, UV stabilised rain gauge calibrated in inches and millimetres with measuring jar which acts as the collection vessel. Supplied complete with rainfall chart.

#### Technical Specifications:

<b>Model Number</b>	<b>CG001</b>
<b>Brand</b>	Brannan (13/070/0)
<b>Range</b>	0 to 5 mm / 0 to 2 in
<b>Material</b>	Polypropylene
<b>Weight</b>	241g
<b>Dimension</b>	Funnel – 290mm x 120mm diameter Measuring Jar – 150mm x 74mm diameter



CG001

### WIRELESS DIGITAL RAIN GAUGE W/MAX-MIN THERMOMETER & CLOCK FEATURES

#### Description:

Digital wireless rain gauge (up to 30 m unobstructed) with maximum rainfall and temperature memory. History of hourly (last hour and last 24 hours), daily (up to last 6 days plus current day), weekly (up to last 6 weeks plus current week) and monthly (up to last 6 months plus current month) rainfall. Features include temperature alert, calendar and clock.

#### Technical Specifications:

<b>Model Number</b>	<b>CG002</b>
<b>Brand</b>	Brannan (13/441/0)
<b>Dimension</b>	Main unit – 178 x 84 x 24 mm Rain gauge – 128 x 120mm diameter
<b>LCD dimension</b>	62 x 45 mm



CG002



## WATER LEVEL INDICATORS

### Description:

For water level measurement can be measured without earthed line considerable time savings when measuring water level.

### Features

- You can measure without earthed line.
- You can select water quality as sensitivity is adjustable against various kinds of water.
- You can judge the breaking of wire with the test function.

## MILLION ROPE WATER LEVEL MEASURE

### Technical Specifications:

Model Number	RWL10M	RWL50M	RWL100M
Length	10m	50m	100m
Brand	Yamayo		
Tape material	PVC coated fiberglass (copper wire at the tape edges)		
Case	ABS		
Probe	Stainless		
Power source	UM-3x2		
Voltage	3V		
Battery life	Approx. in 24 hours consecutive use		
Width	6.2cm		
Thick	1.9mm		
Weight	0.73kg	2kg	3.1kg



- Probe: Stainless 12mm of diameter
- Graduation: 1cm throughout on one side

## MILLION WATER LEVEL MEASURE

### Technical Specifications:

Model Number	WL10M	WL50M
Length	10m	50m
Brand	Yamayo	
Tape material	PVC coated fiberglass (copper wire at the tape edges)	
Case	ABS	
Probe	Stainless	
Power source	UM-3x2	
Voltage	3V	
Battery life	Approx. in 24 hours consecutive use	
Width	12.5mm	
Thick	1.47mm	
Weight	0.6kg	1.2kg



0 point  
electrode

Probe tube



- Probe: Stainless 19mm of diameter
- Graduation: 2mm throughout on one side



## MICROLANCE INSERTION MOISTURE METER

### Description:

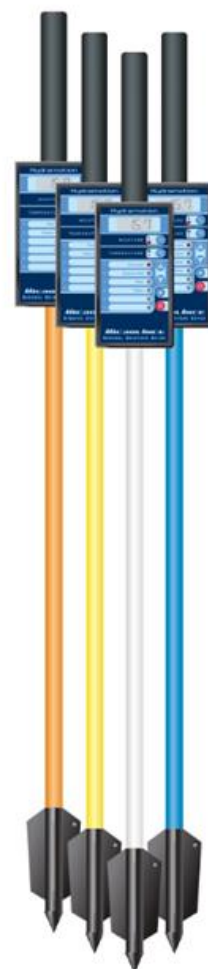
Hydramotion's MicroLance is revolutionary - it can instantly and accurately measure moisture and temperature of building materials (such as sand, aggregates and mixes) simply by insertion. This makes the MicroLance the perfect tool for determining in-situ moisture readings from stockpiles, be it spot sampling or utilising the averaging function to obtain overall stockpile value. Mounted on a 1 or 2m rod, the moisture probe is capable of reaching deep into stockpiles to collect data. The MicroLance has a built-in computer, which gives it the flexibility to handle a wide range of materials and water contents. The meter comes with standard calibration for sands and aggregates but is easily re-calibrated for virtually any material or mixture using the built-in "Autocal" facility. The MicroLance finds its ideal use in concrete batching operations, but has also seen application in hot mix asphalt, brick, and ceramics production.

### Technical Specifications:

<b>Model Number</b>	<b>ML1-COL1</b>
<b>Measurement response</b>	2 seconds
<b>Moisture measure technique</b>	Temperature compensated electric field
<b>Moisture range</b>	0-25%
<b>Moisture resolution</b>	±0.1%
<b>Moisture accuracy</b>	±0.5% of reading
<b>Temperature measurement technique</b>	BS1904/DIN 751 Platinum Resistance Detector
<b>Temperature range</b>	-20°C to 60°C
<b>Temperature resolution</b>	0.1°C
<b>Temperature accuracy</b>	<0.5°C
<b>Weight</b>	1500g
<b>Material selections</b>	6 (user configurable)
<b>Power requirement</b>	4 x 1.5v AA alkaline cells (or equivalent)
<b>Shaft color options</b>	Grey/orange/yellow/blue

### Features

- Instantaneous moisture and temperature
- Robust practical design
- Simple operation
- Accurate on-site readings
- Spot sample or heap average measurement







## CLEGG HAMMER

### Description:

For rapid determination of CBR values

Like the California Bearing Ratio (CBR) test, the Clegg Hammer provides a means for measuring and controlling soil-sub grade strength and is used to confirm uniform compaction over wide areas of ground, identifying poorly compacted areas and ineffective rolling of materials. In fact, the results are directly correlated to the CBR test. Used around the world (most famously by British Gas) and recognized by various international standards (ASTM D5974; BS 7044), the Clegg Hammer is a fast, accurate, and easy-to-operate tester for on-site assessment of mechanical properties of road materials during construction.

### Technical Specifications:

Model Number	CIST/882 (Basic Version)	CIST/883 (With Data Logger)	CIST/884 (With GPS & Data Logger)
<b>Hammer weight</b>	4.5kg		
<b>Readout display (alphanumeric)</b>	Backlit – easy to view. Hand held readout unit.	Vertical display with readout unit clamped to Guide Tube – easy to view.	Backlit vertical display. Readout unit clamped to Guide Tube – easy to view.
<b>Readout range</b>	Up to 101 impact values (IV)	Up to 101 impact values (IV)	Up to 101 impact values (IV)
<b>Power source</b>	3V: 2 x AA batteries located behind detachable rear sealed panel.	From 2 x AA Cells, type Alkaline/NiMH/NiCAD located in battery holder at base of readout.	Low power 3V: from 2 'C' cells.
<b>Transit &amp; storage</b>	Type CIST/ATS/15. Aluminium case for added protection in transit.		
<b>Size &amp; weight (approx.)</b>	71 x 13 x 13 cm. Instrument weight 6.9kg. Packed weight in case 12.2kg.	71 x 13 x 13 cm. Instrument weight 6.8kg. Packed weight in case 12kg.	71 x 13 x 13 cm. Instrument weight 6.9kg. Packed weight in case 12.2kg.



CIST/882



CIST/883



CIST/884