



GEOTECHNICAL

TESTING EQUIPMENT

THE BEST IN TEST

CONCRETE



Concrete

Concrete is used more than any other man-made material in the world, it is a composite construction material composed of cement (commonly Portland cement), coarse aggregates, sand, water and chemical admixtures.

The word concrete comes from the Latin word "concretus" (meaning compact or condensed) hence, concrete solidifies and hardens after mixing with water and placement due to a chemical process known as hydration.

The water reacts with the cement, which bonds the other components together, eventually creating a robust stone-like material that can be moulded in any shape we desire.

The quality of concrete is important if structures formed from this versatile material are to be safe and serve the purpose for which they were constructed therefore, several tests are conducted to identify the characteristics and parameters of concrete.

The testing equipment described in this section are special selected to test the physical parameters of concrete for consistency, degree of compaction, workability, setting time, segregation resistance, confined flowability, air content, bulk density, specific gravity, adhesion, water permeability and strength.



Slump Cone Test set

EN 12350-2 ASTM C143 ASTM C143 M AASHTO T119 BS1881

DESCRIPTION:

Slump Cone test set is used for the determination of the consistency and workability of fresh concrete.

The Concrete Slump Test Set is supplied complete with: Slump Cone, Slump Funnel, Base Plate, Tamping Rod, Rubber mallet, Steel ruler

TECHNICAL SPECIFICATIONS:

	Dimensions
CN 0101-2	500x500x60 mm
CN 0101-4	Ø 16x600 mm
CN 0101-6	300x1 mm

	CN 0101-1
Top	100 ±2 mm Dia
Base	200 ±2 mm Dia
Height	300 ±2 mm Dia
Dimensions	550x600x250 mm
Weight	6 kg



MAIN FEATURES:

- Heavy duty
- Made of thick galvanized steel

ORDERING:

CN 0101
Slump Cone test complete

ACCESSORIES:

CN 0101-1
Slump Cone

CN 0101-2
Base Plate

CN 0101-3
Slump Funnel

CN 0101-4
Tamping Rod

CN 0101-5
Rubber Mallet

CN 0101-6
Steel Ruler

Concrete Flow Table

EN 12350-5, BS 1881-105

DESCRIPTION:

The test set is used for concrete mixes of high workability and determines flow index as an arithmetic mean of the diameter of the specimen after working on a flow table.

The apparatus consists of a double steel table, an upper table measuring 700x700 mm and hinged at one side to the lower table.

The top table is inscribed and all parts are protected against corrosion. The stainless steel cone has a 130 ±2 mm top diameter, 200 ±2 mm base diameter and 200 ±2 mm height and 1.5 mm thickness.

The Concrete Flow Table Set is complete with flow cone and wooden tamper

MAIN FEATURES:

- High workability
- The apparatus consists of a double steel table
- All parts are protected against corrosion

ORDERING:

CN 0102
Concrete Flow Table Set

ACCESSORIES:

CN 0102-1
Flow Cone

CN 0102-2
Wooden Tamper



TECHNICAL SPECIFICATIONS:

Dimensions	Weight (approx.)
700x850x300 mm	40 kg

J-ring, narrow gap

EN 12350-12; ASTM C1621; ASTM C1611

DESCRIPTION:

The J-RING test, in conjunction with the Slump-flow test, is one way to determine the passing ability of SCC, defined as the ability of the concrete to flow under its own weight to completely fill all spaces within the formwork.

The J-RING test set includes the J-RING, Modified Slump Cone, Strike-off bar and a plastic base plate with convenient cut-out carrying handles.

TECHNICAL SPECIFICATIONS:

	CN 0103
Dimensions	350x350x140 mm
Weight (approx.)	10 kg



MAIN FEATURES:

- Manufactured from stainless steel.
- Protected against corrosion

ORDERING:

CN 0103

J Ring test set complete

ACCESSORIES:

CN 0104

J Ring

CN 0105

Slump Cone

CN 0106

Base Plate

Waltz Container

DESCRIPTION:

The Waltz Container is used to measure the degree of compact ability of fresh concrete.

It consists of a 200x200x400 mm metal container with two carrying handles. Coated against corrosion.

TECHNICAL SPECIFICATIONS:

Dimensions	Weight (approx.)
200x200x400 mm	5 kg



EN 12350-4

MAIN FEATURES:

- The apparatus consists of a metal box with handles.

ORDERING:

CN 0107

Waltz Container

Bulk Unit Weight Measures

EN 12350-6 ASTM C29 C138

DESCRIPTION:

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

Manufactured from heavy gauge steel complying with the related standard.

Available in 1, 3, 5, 7, 10, 15, 20 and 28 ltr. capacity models according to the requirements of different standards. Coated against corrosion.

TECHNICAL SPECIFICATIONS:

Product code	Dimensions	Weight (approx.)
CN 0108	100x170x150 mm	2.8 kg
CN 0109	150x210x210 mm	3.7 kg
CN 0110	170x240x250 mm	5.0 kg
CN 0111	190x260x270 mm	6.3 kg
CN 0112	210x290x310 mm	7.7 kg
CN 0113	250x340x330 mm	10 kg
CN 0114	270x370x380 mm	12 kg
CN 0115	310x410x430 mm	20 kg

MAIN FEATURES:

- Bulk Unit Weight measures is made from heavy steel sheet protected against corrosion



ORDERING:

CN 0108
Bulk Unit 1 ltr

CN 0109
Bulk Unit 3 ltr

CN 0110
Bulk Unit 5 ltr

CN 0111
Bulk Unit 7 ltr

CN 0112
Bulk Unit 10 ltr

CN 0113
Bulk Unit 15 ltr

CN 0114
Bulk Unit 20 ltr

CN 0115
Bulk Unit 28 ltr

Vebe Consistometer

EN 12350-3 ASTM C 1170 C 1176

DESCRIPTION:

The Vebe Consistometer is used to determine the consistency of fresh concrete by subjecting the concrete specimen to vibration after removal of the slump cone.

The assembly is mounted upon a small vibrating table operating at a fixed amplitude and frequency.

The time to complete the required vibration gives an indication of the concrete consistency.

The set consists of vibrating table, slump cone, graduated rod with transparent plate, filling cone and tamping rod.

TECHNICAL SPECIFICATIONS:

	CN 0116
Power	170 W
Dimensions	570x460x670 mm
Weight (approx.)	87 kg

MAIN FEATURES:

- Heavy duty

ORDERING:

CN 0116
Vebe Consistometer complete

ACCESSORIES:
CN 0116-1
Slump Cone

CN 0116-2
Filling cone

CN 0116-3
Transparent plate

CN 0116-4
Tamping rod.



Pocket Penetrometer

DESCRIPTION:

The Pocket Penetrometer is designed for the determination of setting time of fresh concrete for field and laboratory use.

Stainless steel plunger has 32.3 mm² (1/20 in²) area and 0-5 MPa measuring range.

TECHNICAL SPECIFICATIONS:

Total length	155 mm
Maximum diameter	20 mm
Diameter of the tip	6.35 mm (1/4")
Penetration of the tip	6.35 mm
Cross section of the tip	0.3165 cm ²
Net weight	0.150 kg
Force required to read 3 kg/cm ²	5.10 ± 0.25 kgf
Force required to read 4.5 kg/cm ²	7.71 ± 0.28 kgf
Compression of the spring for 4.5 kg/cm ²	35.6 mm
Nominal calibration factor of the spring	0.2166 ± 0.01 kg/cm ²

EN 12350-5 BS 1881-105 ASTM C403- ASHTO T197

MAIN FEATURES:

- Can be directly read from the scale of the instrument

ORDERING:

CN 0117
Pocket Penetrometer



Concrete Mortar Penetrometer

DESCRIPTION:

The Concrete Mortar Penetrometer consists of a cylindrical spring housing with a plunger attached to the top of the spring. Penetration needle is attached to the other end of the spring housing.

The plunger is graduated in 1 kg divisions, to a maximum capacity of 60 kg, which can be read with respect to the top end of the spring housing.

A set of six needle points with areas of 645, 323, 161, 65, 32 and 16 mm² are provided.

The Concrete Mortar Penetrometer is supplied complete with; Set of interchangeable needle points of 645, 323, 161, 65, 32, 16 mm area

ASTM C403; AASHTO T197

MAIN FEATURES:

- Heavy Duty
- Rigid design
- Easy to use



TECHNICAL SPECIFICATIONS:

Dimensions	Weight (approx.)
540x260x60 mm(packed)	5 kg

	Needle Pos.	Face areas
CN0118-1	11	16 mm ² (1/40 inch ²)
CN0118-2	12	32 mm ² (1/20 inch ²)
CN0118-3	12	65 mm ² (1/10 inch ²)
CN0118-4	12	161 mm ² (1/4 inch ²)
CN0118-5	12	323 mm ² (1/2 inch ²)
CN0118-6	12	645 mm ² (1 inch ²)

ORDERING:

CN 0118
Concrete Mortar Penetrometer complete

ACCESSORIES:

CN0119
Set of points needles

CN0120
Carrying case

V-Funnel Apparatus

DESCRIPTION:

The V-Funnel Apparatus is used to evaluate the segregation resistance of freshly mixed self compacting concrete by observing the flowing speed due to the difference of samples remaining period in the funnel.

The test set consists of a stainless steel funnel placed vertically on a supporting stand. The discharge orifice is equipped with a lid, which can be momentarily opened.

TECHNICAL

SPECIFICATIONS:

Dimensions	Weight (approx.)
525x300x1040 mm	18 kg



EN 12350-9

MAIN FEATURES:

- Stainless steel funnel

ORDERING:

CN 0121
V-Funnel Apparatus

ACCESSORIES:

CN 0122
Filling Hopper

CN 0123
Base

U Shape Box Apparatus

DESCRIPTION:

The U shape Box is used to determine the confined (flow ability) and the capacity of SCC concrete to flow within confined spaces.

The box is made of galvanized steel frame consisting of four 10 mm diameter and three 13 mm diameter bars.

The U Shape box is mounted on a frame with a fixing mechanism.

TECHNICAL

SPECIFICATIONS:

Dimensions	Weight (approx.)
650x650x1100 mm	20 kg



UNI 11044

MAIN FEATURES:

- Stainless steel funnel

ORDERING:

CN 0124
U Shape Box Apparatus

ACCESSORIES:

CN 0125
Filling Hopper

CN 0126
Base

Compacting Factor Apparatus

DESCRIPTION:

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

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

A cylindrical mold is fitted beneath the hoppers.



BS 1881-103 5075

MAIN FEATURES:

- Heavy duty
- Made to last

ORDERING:

CN 0127
Compacting
Factor Apparatus

TECHNICAL SPECIFICATIONS:

Dimensions	Weight (approx.)
300x400x1300 mm	41 kg

L Shape Apparatus

EN 12350-9

DESCRIPTION:

The L Shape Box is used for evaluation of self compact ability (confined flow ability) of freshly mixed self compacting concrete.

The box gives the opportunity to evaluate different properties, such as filling ability, passing ability and resistance to segregation.

TECHNICAL

SPECIFICATIONS:

Dimensions	Weight (approx.)
300x1000x1350 mm	35 kg



MAIN FEATURES:

- L shape box apparatus has resistance to segregation.

ORDERING:

CN 0128
L Shape Box apparatus

ACCESSORIES:

CN 0129
Filling Hopper

CN 0130
Base

Air Entrainment Meter

EN 12350-7 ASTM C231 AASHTO T152

DESCRIPTION:

The Air Entrainment Meter is used to determine air content of fresh concrete. Our air entrainment meter is one of the most precise air content measuring devices available in the market. With heat treated cast aluminum construction and cast in handles on the base, it is heavy duty, yet light weight, and easy to handle.

Our unit utilises the best clamping system available, with large stainless steel clamp levers and a holding capacity of about 7 ltr each. This clamping system provides an easy, dependable operation.

Employing the use of a superior high volume Ultra Pump, this system makes operation efficient yet rapid. This includes a larger more accurate pressure gauge with safety glass and bold color dial face. Color coded for entrapped and entrained air readings.

Our equipment comes complete:

B pressure meter Calibrated Vessel, Calibration Outside Tube, Calibration Inside Tube, Strike Off Bar, Tamping Rod rounded to a hemispherical tip at both ends, Bulb Syringe, Rubber Mallet, carrying case

Capacity	7ltr
air content range	0-22%
Dimensions	700x300x500 mm
Weight (approx.)	18 kg

TECHNICAL

SPECIFICATIONS:



MAIN FEATURES:

- Superior meter
- Reliable device
- Quickly and easily
- Durability and effective

ORDERING:

CN0131
The Air Entrainment Meter set

ACCESSORIES:

CN 0131-01
B pressure meter
Calibrated Vessel

CN 0131-02
Calibration Outside
Tube

CN 0131-03
Strike Off Bar

CN 0131-04
Tamping Rod

CN 0131-05
Bulb Syringe

CN 0131-06
Rubber Mallet

CN 0131-07
Carrying case

Specific Gravity Frame

DESCRIPTION:

Specific Gravity Frame is used in conjunction with electronic balance for specific gravity or density determination of hardened concrete and aggregates.

Consisting of a purpose built robust frame designed to support the electronic balance. The lower part of the frame incorporates a moving platform, which carries the water tank allowing the test specimens to be weighed in both air and water.

There are 3 choices of balances to choose from with different capacities.

Supplied complete with Cradle, Density Basket, hook and water tank .

TECHNICAL SPECIFICATIONS:

Dimensions	600x500x1100 mm
Weight (approx.)	25 kg



EN 1097-6, 12390-7, BS 1881:114

MAIN FEATURES:

- Under-bench weighing facility
- Robust frame

ORDERING:

CN 0132
Specific Gravity Frame supplied complete

ACCESSORIES:

CN 0133
Cradle and suspension hook

CN 0134
Water Tank

CN 0135
Density Basket

CN 0136
Buoyancy Balance, 15kg x 0.5g

CN 0137
Buoyancy Balance, 6kg x 0.01g

CN 0138
Buoyancy Balance, 32kg x 1 g

Grout Flow Cones and Sets

DESCRIPTION:

Grout Flow Cones measure the flowability of hydraulic grout used in preplaced aggregate concrete. Flowability is measured by time of discharge of a 1.725L sample of grout through an 12.7mm dia. discharge tube orifice from the cone. The cast aluminum Flow Cones all come with an adjustable point gauge assembly to indicate initial sample level.

Grout Flow Cone Set has a 12.7mm dia Orifice already installed, and a 3-Legged Steel Support Stand, and 2L stainless steel Beaker for use as a receiving container.

Grout Flow Cone Set has a 19mm Orifice to be used with alternate test methods.

TECHNICAL SPECIFICATIONS:

Dimensions	178mm dia for top 76mm
Cone section	190mm
Discharge Tube	38.1mm
Grout volume	1,725 ±5ml



ASTM C939

ORDERING:

CN 0139
The Grout Flow Cone

ACCESSORIES:

CN 0140
12.7mm Orifice

CN 0141
19 mm Orifice

CN 0142
Steel Stand

Pan Concrete Mixer

EN 1766



DESCRIPTION:

The Concrete Mixer is designed for laboratory use to give efficient mixing of both wet and dry materials.

The mixing pan is rotated by a turntable driven by an electric motor by a reduction gearbox. It has easily adjustable blades to fit different types and volumes of material to be mixed.

TECHNICAL SPECIFICATIONS:

	CN 0143	CN 0144
Dimensions	950x1050x1250 mm	950x1050x1270 mm
Weight (approx.)	255 kg	285 kg
Power	1500 W	3800 W
Mixing capacity	56 ltr YIELD 42 ltr	100 ltr YIELD 80 ltr

ORDERING:

CN 0143

Pan concrete Mixer type 56 ltr

CN 0144

Pan concrete Mixer type 100 ltr

MAIN FEATURES:

- Dry and wet materials mixer.
- Adjustable blades
- The mixing pan can be tilted and removed.

Drum Concrete Mixer

DESCRIPTION:

The Mixer is used for efficient mixing of concrete, plaster and mortars.

The Concrete Drum Mixer comes complete with: Drum, Light weight mixer, Stand, rubber Wheels which provide high portability and a motor.



TECHNICAL SPECIFICATIONS:

	CN 0145
Drum Volume	125 ltr.
Mixing Volume	125 ltr.
Mixing Capacity	2-3 m /h
Dimensions	670x1200x900 mm
Weight (approx.)	40 kg
Power	750 W (Electric Powered Model) 3.5 HP (Diesel Engine Powered Model)

EN 12390-7, 1097-6, BS 1881:114

MAIN FEATURES:

- This model comes both in electric and diesel
- Available in different capacity

ORDERING:

CN 0145

Drum concrete Mixer 125 ltr

CN 0146

Drum concrete Mixer 140 ltr

CN 0147

Drum concrete Mixer 170 ltr

CN 0148

Drum concrete Mixer 350 ltr

CN 0149

Drum concrete Mixer 425 ltr

ACCESSORIES:

CN 0150

Stand

CN 0151

Wheels

Cylinder Molds

DESCRIPTION:

The Cylinder Molds are designed to produce accurate specimens while avoiding distortion over the length of the mold.

Made from reinforced steel construction for added rigidity and long service life.

The edge of the rim is of accurate finish to insure clean specimens results. Each mould is tested for conformity, supplied with individual certificate.

Several models and sizes available 100X200, 150X300, 160X320mm, available in ring or clamp type.



EN 12390-1; ASTM C78, C293, C39,192

MAIN FEATURES:

- Durable, corrosion resistant and easy to clean.

ORDERING:

CN 0152 Cylinder mold steel ring type 100x200mm	CN 0155 Cylinder mold steel clamp type 100x200mm
CN 0153 Cylinder mold steel ring type 150x300mm	CN 0156 Cylinder mold steel clamp type
CN 0154 Cylinder mold steel ring type 160x320mm	CN 0157 Cylinder mold steel clamp type

TECHNICAL SPECIFICATIONS:

	Dimensions
CN 0152 / CN 0155	200x100 mm
CN 0153 / CN 0156	300x150 mm
CN 0154 / CN 0157	360x160 mm

Plastic Molds

DESCRIPTION:

Our Plastic Cube and Cylinder Mold is manufactured from rigid high quality plastic that is weather resistant and has an unlimited shelf life. Cured specimens can easily be demolded from the mold.

TECHNICAL SPECIFICATIONS:

	Dimensions
CN 0158	100x200 mm
CN 0159	150x300mm.
CN 0160	160x320mm.

	Dimensions
CN 0161	160x160 mm
CN 0162	160x160 mm
CN 0163	110x220 mm
CN 0164	160x160 mm

ORDERING:

CN 0161
Plastic Cube Mold 150mm 1gang-standard density g. 1,200

CN 0162
Plastic Cube Mold 150mm 1gang - high density g. 1,700

CN 0163
Plastic Cube Mold 100mm. 2 gang

CN 0164
Plastic Cube Mold 150mm with steel base and handle

EN 12390-1; ASTM C78, C293, C39,192

MAIN FEATURES:

- Heavy duty
- Easy to clean



CN 0158
Plastic Cylindrical Mold 150x300mm.

CN 0159
Plastic Cylindrical Mold 160x320mm.

CN 0160
Plastic Cylindrical Mold 100x200mm.

Beam Molds

DESCRIPTION:

Steel beam molds are manufactured in accordance to dimensions and tolerances stated in the related standards.

There are two types either heavy duty plastic or steel.

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

The heavy duty plastic beam mold which are much lighter are built to last long time.



TECHNICAL SPECIFICATIONS:

EN 12390-1-2, ASTM C39, 192, AASHTO T23, T126

MAIN FEATURES:

- Heavy duty

ORDERING:

CN 0165 Steel Beam Mold 100X100X400mm	CN 0169 Plastic Beam Mold 100X100X400mm
CN 0166 Steel Beam Mold 100x100x500mm	CN 0170 Plastic Beam Mold 100x100x500mm
CN 0167 Steel Beam Mold 150x150x600mm	CN 0171 Plastic Beam Mold 150x150x600mm
CN 0168 Steel Beam Mold 150x150x750mm	CN 0172 Plastic Beam Mold 150x150x750mm

	Dimensions
CN 0165 / CN 0169	100x100x400 mm
CN 0166 / CN 0170	100x100x500 mm
CN 0167/ CN 0171	150x150x600 mm
CN 0168 / CN 0172	150x150x750 mm

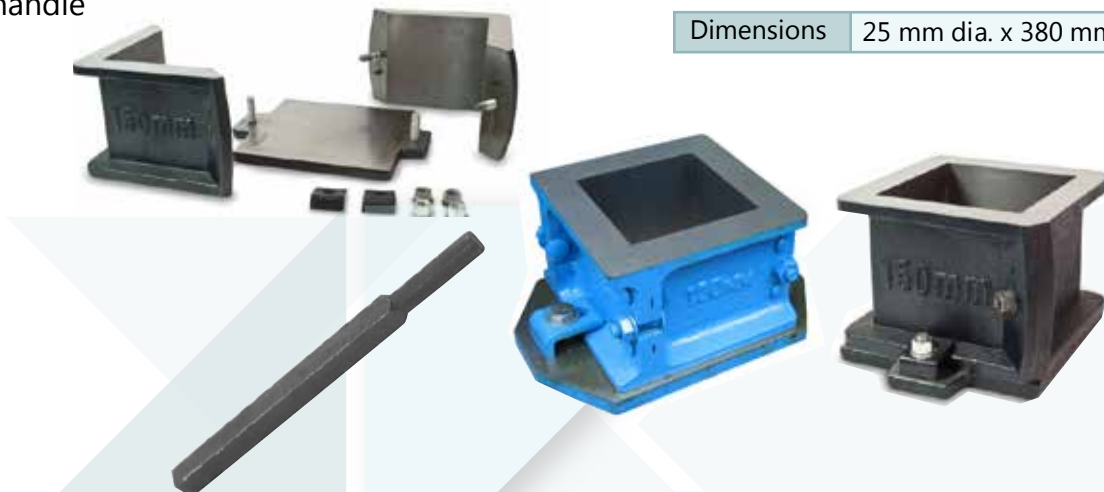
Cube Molds and Tamping

DESCRIPTION:

The cast iron steel cube molds are manufactured from heavy duty durable material and in accordance to the dimensions and tolerances acceptable by the standard.

Each mold is numbered and tested for conformity, supplied with individual certificate. There are several models and sizes available, 2 parts and 4 parts, 100mm, 150mm and 200mm.

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



Dimensions 25 mm dia. x 380 mm long.

TECHNICAL SPECIFICATIONS:

	Dimensions	Parts
CN 0173	100 mm	2
CN 0174	100 mm	4
CN 0175	150 mm	2
CN 0176	150 mm	4
CN 0177	200 mm	2
CN 0178	200 mm	4

MAIN FEATURES:

- Durable, resistant and easy to clean.

ORDERING:

CN 0173 Cube Mold 100mm 2 parts
CN 0174 Cube Mold 100mm 4 parts
CN 0175 Cube Mold 150mm 2 parts
CN 0176 Cube Mold 150mm 4 parts
CN 0177 Cube Mold 200mm 2 parts
CN 0178 Cube Mold 200mm 4 parts
CN 0179 Concrete Tamping Rod
CN 0180 Concrete Tamping Bar

Curing Tank

DESCRIPTION:

The Curing Tanks are designed for curing concrete cubes, beams and cylinders.

The temperature can be adjusted and can be set and maintained to the required value by an electric resistance incorporating as thermoregular which maintains set temperature between ambient and 65 °C with ± 1 °C accuracy.

The tank is also supplied with a submersible circulator pump to assure good temperature uniformity and a bottom rack.



MAIN FEATURES:

- Manufactured from rigid material.
- Adjustable temperature
- Circulating pump for temp uniformity.

ORDERING:

CN 0181
Small Curing Tank complete

CN 0182
Medium Curing Tank complete

CN 0183
Large Curing Tank complete

CN 0184
Curing Tank complete

ACCESSORIES:

CN 0185
Circulating Pump

CN 0186
Heater

TECHNICAL SPECIFICATIONS:

Product Code	Dimensions	Capacity	Weight approx.
CN 0181	660 mm x 480 mm x 510 mm	12 x 150 mm cubes	20 kg
CN 0182	970 mm x 610 mm x 610 mm	24 x 150 mm cubes	25 kg
CN 0183	1130 mmx1130 mmx760 mm	36 mm cubes	60 kg
CN 0184	1550 mmx805 mmx820 mm	64 cubes mm	110 kg

Melting pot

DESCRIPTION:

The Melting Pot is mainly used for melting capping compound .

The apparatus consists of aluminum container in a well-lagged steel jacket, lid cover and a thermostatic control heater to adjust the temperature constant as required.



EN 12390-7, 1097-6, BS 1881:114

MAIN FEATURES:

- Adjustable thermostat
- Complete with cover.

ORDERING:

CN 0187
Melting Pot 2.5 ltr

CN 0188
Melting Pot 5 ltr

CN 0189
Melting Pot 9 ltr

TECHNICAL SPECIFICATIONS:

	CN 0188
Capacity	5 l approx.
Temperature range	+30 to +300°C
Power	700 W
Internal dimensions	200 mm dia.x160 mm high
External dimensions	285 mm dia.x275 mm high
Weight approx.	2.7 kg

Capping Compound

ASTM C307, C321, C386, C579, C617; D71

DESCRIPTION:

100 kg bag of sulfur-based, flake-form capping compound melts and sets within minutes. Silica-filled compound has 150 psi bond strength, 9000 psi compressible strength and 605 psi tensile strength. Compound pours between 129 and 143°C. Over-heated material's viscosity is reinstated by decreasing temperature.



ORDERING:

CN 0190
Capping Compound

TECHNICAL

SPECIFICATIONS:

Strength Compressive	Strength Tensile	Compound pours
9000 psi	605 psi	265 and 290°F (129 to 143°C)

Cylinder Capping Equipment

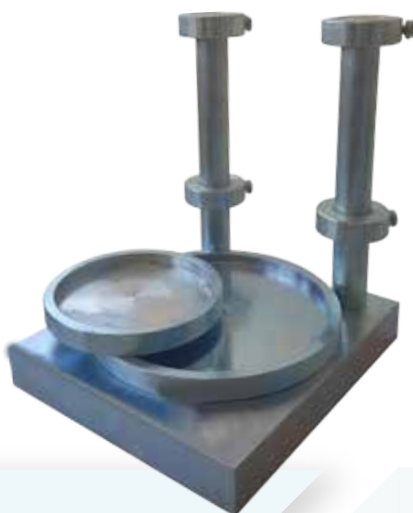
EN 12390-3 AASHTO T23 AASHTO T126 ASTM C31
ASTM C192 ASTM C617

DESCRIPTION:

The Cylinder Capping Frame is used to assure plane and surfaces perpendicular to the axis of the cylinder during the capping.

Built to last the frame comprising vertical supports mounted on a steelbase which can be disassembles for easy machining.

The Cylinder Capping is used in conjunction with flake capping compound and melting pot. The equipment comes complete with capping flame with one size capping flat to choose from.



MAIN FEATURES:

- Made from steel, accurately machined.
- Protected against corrosion.

ORDERING:

CN 0191
Cylinder Capping equipment complete with one size capping plate

ACCESSORIES:

CN 0192
Capping plate 75mm dia

CN 0193
Capping plate 100mm dia

CN 0194
Capping plate 150mm dia specimens

CN 0195
Capping plate 160mm dia

CN 0196
Flake Capping compound pack of 100kg

TECHNICAL

SPECIFICATIONS:

Product	Dimensions
Cylinder carriers	50 mm (6"x12"x9 and 160x320 mm sizes
Melting pot	internal 200 mm dia.160 mm depth external 285 mm dia.x 275 mm high
Capping plate for concrete blocks	500x300 mm, 20 mm thick

Steel Retainer Set

DESCRIPTION:

Steel Retainer Set are used with neoprene pads (sold separately) in unbounded capping for compressive strength testing of Concrete Cylinders.

They hold and confine the neoprene pads, which are placed at each end of the concrete cylinder before testing.

Steel Retainers are constructed of alloy steel, precisely machined to specified dimensions and are plated inside out to resist corrosion.

Bearing surfaces are plane to within 0.002in (0.05mm). Sold in sets of 2.

TECHNICAL SPECIFICATIONS:

Specimen Diameter	165 mm
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ASTM C1231; ASHTO T22

MAIN FEATURES:

- Rugged alloy steel construction
- Corrosion-resistant plating inside and out
- Plane bearing surfaces

ORDERING:

CN 0197
Steel Retainer Set 100mm

CN 0198
Steel Retainer Set 150mm

CN 0199
Steel Retainer Set 160mm

Neoprene Pads

DESCRIPTION:

Neoprene Pads are available in 50, 60, or 70 durometer for compressive strength testing of concrete cylinders, and meet requirements of ASTM C1231 and AASHTO T 22.

These thick pads flow during compression to fill irregularities in cylinder ends and assure uniform load distribution.

Two pads are required for testing. Pads are reusable in up to 100 tests, and are sold as a pair

TECHNICAL SPECIFICATIONS:

Specimen Diameter	100X20mm/ 150x20mm/160x20mm
Duro Strength	50 Duro: 1,500-6,000 psi (10-40 mPa)
	60 Duro: 2,500-7,000 psi (17-50 mPa)
	70 Duro: 4,000-7,000psi (28-50 mPa)



AASHTO T 22,ASTM C1231, AASHTO T22,T851

MAIN FEATURES:

- Available in three different durometer ratings
- Can be used up to 100 times before replacing

ORDERING:

CN 0200
Neoprene Pad in 50 Duro
100X20mm

CN 0201
Neoprene Pad in 60 Duro
100X20mm

CN 0202
Neoprene Pad in 70 Duro
100X20mm

CN 0206
Neoprene Pad in 50
Duro
160X20mm

CN 0207
Neoprene Pad in 60
Duro
160X20mm

CN 0208
Neoprene Pad in 70
Duro 160X20mm

CN 0203
Neoprene Pad in 50 Duro
150X20mm

CN 0204
Neoprene Pad in 60 Duro
150X20mm

CN 0205
Neoprene Pad in 70 Duro
150X20mm

Concrete bleed water tester

DESCRIPTION:

Concrete bleed water tester is used for determination of the relative quantity of mixing water that will bleed from a sample of freshly mixed concrete.

TECHNICAL SPECIFICATIONS:

Dimensions	Weight (approx.)
290x255x350 mm	6 kg



ASTM C 232 EN 480-4

MAIN FEATURES:

- Heavy Duty material.

ORDERING:

CN 0209
Concrete bleed water tester

Concrete electric masonry saw



MAIN FEATURES:

- Delta motor starter
- Long life and easy cleaning
- High cutting performance
- Heavy duty water pump, High flow to improve blade cooling

DESCRIPTION:

The Concrete Masonry Saws is ideal for trimming concrete, asphalt and other specimens to the desired size preparing sample for testing.

It is designed to work in different cutting length and depth which allows cutting per-cast concrete and blocks very easy and simple.

The Blade can be adjusted to suit several cutting heights in a single pass.

The equipment comes with a heavy duty belt driven by a high efficiency electric motor mounted on robust chassis and re-enforced based frame.

It comes complete with heavy duty water pump for wet cutting and blade cooling, automatic starter, slide rolling conveyor and movable wheels.

TECHNICAL SPECIFICATIONS:

Motor Voltage	230 V	230 V	230 V
Max. cutting depth	200 mm	270 mm	420 mm
Net weight	89 kg	128 kg	303 kg
Packaging Dimensions	1214x839x1374 mm	1543x851x1571 mm	1982x1207x1549 mm

ORDERING:

CN 0210
Concrete electric masonry saw, max 200

CN 0211
Concrete electric masonry saw, max 270

CN 0212
Concrete electric masonry saw, max 420

ACCESSORIES:

CN 0213
Saw Blade 200

CN 0214
Saw Blade 270

CN 0215
Saw Blade 420

Core Drilling Machine

EN 1097-6, 12390-7, BS 1881:114

DESCRIPTION:

The Core Drill Machine is designed to cut cores up to 200 mm diameter from concrete, asphalt, rocks and similar hard construction materials. The machine comes complete with a vertical support column which carries the drill head/motor assembly.

The motor assembly comprises a high efficiency 6.5 Hp petrol engine or electrical engine depends on request.

A ball screw mechanism enables close control of the drilling pressure and 2 speed motor.

Manual rapid wheel mechanism is used for height drilling adjustment. A water spraying assembly is mounted on the machine for cooling of core bit. The complete assembly is supplied on a rigid wheel mounted metal base frame with leveling and fixing facility during the operation.



MAIN FEATURES:

- A powerful two speed motor
- Designed for high performance coring
- Easy up/down Transversal coring
- Water cooling assembly

ORDERING:

CN 0216
Core Drilling Machine

ACCESSORIES:

CN 0217
Coring Bit for 50 mm dia. x 400 mm length

CN 0218
Coring Bit for 75 mm dia. x 400 mm length

CN 0219
Coring Bit for 100 mm dia. x 400 mm length

CN 0220
Coring Bit for 150 mm dia. x 400 mm length

CN 0221
Coring Bit for 200 mm dia. x 400 mm length

TECHNICAL SPECIFICATIONS:

Product code	Dimensions	Weight (approx.)	Engine power
CN 0223	50x85x120 cm	105 kg	6.5 hp

Specimen Grinding machine

EN 12390-2, ASTM D4543

DESCRIPTION:

The Grinding machine is used to grind and polish rock and concrete specimens, natural stones, ceramic materials, etc.

The cube and cylinder specimens can be easily locked on the table and the grinding head, 330 mm dia., can be radially moved either manually or automatically in both directions so, the only manual operation requested is the lowering of the grinding head by the top hand wheel.

The machine is supplied complete with safety chip guard that, when removed, stop automatically the machine, with coolant tank, motor pump and one set of abrasive sectors. Diamond grinding sectors are available on request.

The machine is supplied complete with clamping element for 100, 150 and 200 mm cubes. Clamping devices for cylinders and device for dry grinding procedure are also available on request.

The Core face preparation jigs can be easily fitted by the clamping element supplied with the machine.

TECHNICAL SPECIFICATIONS:

Table dimension	775x280 mm
Grinding wheel dia	330 mm
Max vertical daylight	350 mm
Min vertical daylight	145 mm
Max specimen size cubes	200 mm
Max specimen size cylinders	160x320 mm
Grinding head stroke	205 mm
N of grinding segments	10
Grinding wheel speed	1400 r.p.m.
Overall dimensions	1200x1020x1640 mm
Overall weight approx.	350 kg
Automatic cross feed in both directions	
Safety guard with door locking switch conforming to CE	

There are two models available:

Standard model in which the radial displacement of the grinding head is motor operated and actuated by a push button.

Automatic model in which the radial displacement is fully automatic and controlled by travel limit switches

MAIN FEATURES:

- To grind concrete specimens, natural stones, tiles, block pavers, ceramic materials etc.
- Large base table for grinding contemporaneously up to three 100 mm cubes, or three 150 mm cubes, or two 200 mm cubes and concrete/tile blocks of various sizes suitable.
- For cubes up to 200 mm and cylinders up to dia. 160x320 mm



ORDERING:

CN 0222

Specimen Grinding Machine, standard model

CN 0223

Specimen Grinding Machine, automatic model

ACCESSORIES:

CN 0224

Set of 10 diamond impregnated sectors.

CN 0225

Accessory to connect an aspirator for drying grinding procedure.

CN 0226

Clamping device for concrete cylinders from dia. 100x200 mm to 160x320 mm.

CN 0227

Device for clamping one additional cylindrical specimen from 100 up to 160mm dia

CN 0228

Clamping device for concrete cylinders from 50 to 100 mm dia.

CN 0229

Large base table for grinding contemporaneously up to three 100 mm cubes, or three 150 mm cubes, or two 200 mm cubes and concrete/tile blocks of various sizes.

Poker Vibrator

EN 12390-2 ASTM C31 C192 AASHTO T23 T126

DESCRIPTION:

The Concrete Poker Vibrator removes air bubbles and settles concrete quickly and effectively. It's designed to be used in freshly poured concrete, such as slabs, footings, small columns and masonry blocks.

The powerful vibrations from this compact machine force air bubbles out of the concrete, settling it as you watch.

The concrete vibrator can be used vertically, horizontally or at an angle. The 1.5m shaft and rotatable base make it easy to reach the required areas without excessive bending or stooping.

It operates with minimal noise, so you won't need ear protection during use.

MAIN FEATURES:

- Easy to use
- lightweight
- Ergonomically designed

ORDERING:

CN 0230
Vibrating Poker Complete



TECHNICAL SPECIFICATIONS:

Concrete Vibrator	with 35mm dia Vibrating Poker and 1.5m Hose
Item Weight	6.46 Kg
Package Dimensions	70 x 25.4 x 8 cm.

Vibrating Table of Concrete

EN 12390-2

DESCRIPTION:

The Vibrating table is used to compact concrete materials inside cubes, cylinders and beam molds.

It can deliver the vibrating movement controls by vibro compacting motor with fixed amplitude.

Vibrating tables consist of vibrating motor, control unit and clamping assembly.



MAIN FEATURES:

- Achieves maximum density of concrete mixture.
- Manufactured to operate with minimum noise level.

ORDERING:

CN 0231
Small Vibrating table

CN 0232
Large Vibrating table

The table is available in two sizes:
610 x 380 mm and 1260 x 620 mm.

TECHNICAL SPECIFICATIONS:

Product Code	Dimensions	Weight approx.	Power
CN 0231	380x610x800 mm	52 kg	170 W
CN 0232	620x1260x1200 mm	135 kg	170 W

Water Absorption

EN 12390-8

DESCRIPTION:

The Water Absorption set measures the penetration of water into the test surface under an applied pressure, can be used to determine the water penetration characteristics of alternative concrete mixtures or surface sealers and also for in-place testing to demonstrate the characteristics of concrete level of permeation.

The water absorption kit comes complete with :

Pressure chamber unit with 0-1.5 bar* gauge Wrench for pressure lid, Extra 0-6.0, bar gauge, Water filling cup, Adjustable clamping suppliers, Set of anchoring tools, Wrenches: 14 and 17 mm, Sealant tape, Bottles with boiled water, Gaskets, 10 mm thick, Gaskets, 15 mm thick,

MAIN FEATURES:

- The Water Absorption set is used for on-site evaluation
- Effectiveness of water proofing membranes

ORDERING:

CN 0233
Water Absorption Kit

ACCESSORIES:

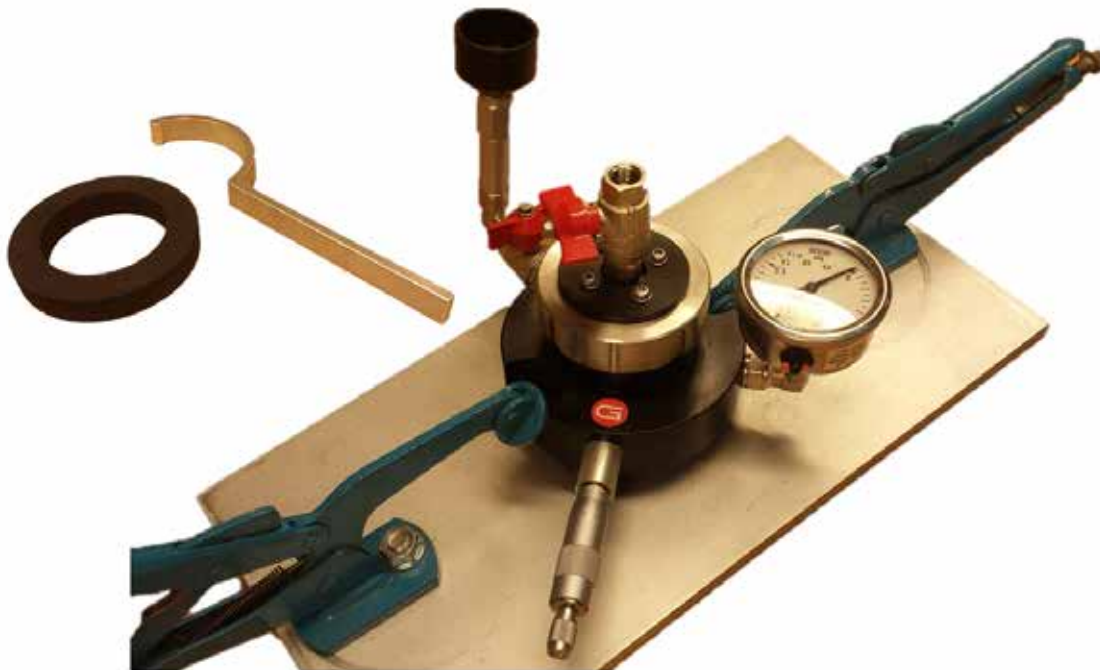
CN 0234
Pressure chamber unit with 0-1.5 bar* gauge

CN 0235
Wrench for pressure lid

CN 0236
Extra 0-6.0 bar gauge

TECHNICAL SPECIFICATIONS:

Wrenches	14 and 17 mm
Pressure chamber unit	0-1.5 bar



Concrete Water Impermeability

EN 12390-8

DESCRIPTION:

The Concrete Impermeability Apparatus is used for the determining of the depth of penetration of water to hardened concrete specimens under pressure. 3 and 6 specimen capacity models are available.

The system can test 150x150x150 mm, 200x200x200 mm cube or 150x300mm cylinder specimens. Pressure to the sample, up to 10 bar with 0,2 bar precision is generated by way of compressed air applied to the integral water tank and controlled by a pressure regulator; with a pressure gauge.

The penetration of water is measured through the buttresses supplied complete with the system.

There are two main models available, It can be with or without quantitative measure. The quantitative model allows you to measure water penetration through the individual burettes. The system comprises impermeability gaskets for every cell. The measurement apparatus is supplied as standard either in 3 or 6 sample model.

MAIN FEATURES:

- Quantitative measurements of water penetration.
- Without quantitative measurements of water penetration.
- Accurate readings.
- High performance clamping system.

ORDERING:

CN 0237

Concrete impermeability apparatus with quantitative measure, for 3 places

CN 0238

Concrete impermeability, Without quantitative measure, for 3 places

CN 0239

Concrete impermeability, with quantitative measure, for 6 places

CN 0240

Concrete water impermeability, Without quantitative measure, for 6 places

CN 0241

Laboratory Air Compressor 15 bar, 380 V 50HZ



Crack Detection Microscope

DESCRIPTION:

The Crack Detection Microscope is a precision apparatus, used for measuring cracks in concrete.

It has its own adjustable light source for darkened conditions.

The image is focused by turning a knurled knob on the side and the eyepiece scale can be rotated through 360 degrees to align with the crack under examination.

The 4mm range of measurement is divided into 0.02mm divisions.

The Crack Detection Microscope comes complete with a wooden box

TECHNICAL SPECIFICATIONS:

Magnification	40 x
Measuring Range	4 mm
Subdivision	0.02 mm
Dimensions	150x80x45 mm
Weight approx	550 g

EN 12390-7 1097-6 BS 1881:114

MAIN FEATURES:

- It has its own adjustable light source for darkened conditions.

ORDERING:

CN 0242
Crack Detection
Microscope



Ultrasonic Apparatus, Pundit Lab

BS 1881-203, EN 12504-4; ASTM C597



An essential tool for investigating the structural integrity of a wide range of materials. This new generation Concrete Ultrasonic can be used in the laboratory or on site to investigate uniformity; cavities, cracks, fire/frost damage, delamination, deterioration and strength.

It has memory storage of up to 100 sets of readings and built in RS232 serial port for download of data.

Supplied with a simple software download utility kit and does not require reference bar as calibration is done by 'zeroing'. It can calculate and display additional parameters – velocity, pathlength and Young's Modulus. It can be set to any pulse repetition frequency from 1 to 100 and has pulse delay mode which allows the user to take readings at specified intervals from 1 per second up to 99 hours.

Pundit Lab consisting of: Display unit, 2 transducers (54kHz), 2 BNC cables 1.5 m, couplant, calibration rod, battery charger with USB-cable, 4x AA(LR6) batteries, data carrier with software, documentation and carrying case.

MAIN FEATURES:

- Measurement performance
- Integrated waveform display
- On-line data acquisition
- USB interface and data analysis software

ORDERING:

CN 0243
Ultrasonic Apparatus,
Pundit Lab

CN 0245

Transducer
54 kHz (Two
required for
operation)

ACCESSORIES:

CN 0244
Transducer 24 kHz (Two
required for operation)

CN 0246

Transducer
150 kHz (Two
required for
operation)

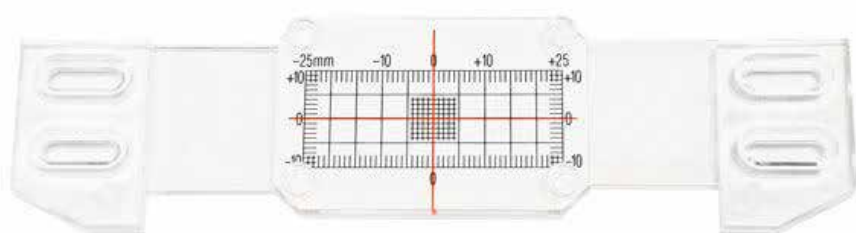
Crack Meter Angular and Linear

DESCRIPTION:

Crack meters are used to monitor the progress of surface cracks in structural components and buildings caused by subsidence or mechanical failure.

They are composed of two transparent acrylic resin plates, overlapping and able to move relative to each other.

The upper plate is engraved with a reference cross, while the underlying one is marked with a grid in millimeters, both horizontal and vertical, which can be zeroed along its axes.



MAIN FEATURES:

- Static monitoring of cracks
- Low risk applications

ORDERING:

CN 0247
Linear crack meters

CN 0248
Angular crack meters

TECHNICAL SPECIFICATIONS:

Linear crack meters quantity	10 pcs
Angular crack meters	5 pcs

Profoscope

DESCRIPTION:

The Profoscope uses electromagnetic pulse induction technology to detect rebars. Coils in the probe are periodically charged by current pulses and thus generate a magnetic field.

The Profoscope uses different coil arrangements to generate several magnetic fields.

Advanced signal processing allows

1. Localization of a rebar
2. Localization of the mid-point between rebars.
3. Determination of the cover
4. Estimation of the bar diameter

TECHNICAL SPECIFICATIONS:

Measuring Range	Up to 185 mm
Cover Measuring Accuracy	± 1 to 4 mm, depending on cover
Diameter Measuring Range	Up to 63 mm
Diameter Measuring Accuracy	± 1 rebar size

BS1881 part 204

MAIN FEATURES:

- Designed for single handed operation
- Intuitive icon-based interface for fast operation
- Rugged water-proof construction

ORDERING:
CN 0249
Profoscope



Profometer 630

BS 1881, Part 204; DIN 1045; SN 505262; SS 78-B4; BS 1881-204

DESCRIPTION:

The Profometer 630 is all-in-one solution for rebar assessment and corrosion analysis which increase productivity for civil engineers and inspection companies in charge of assessing the conformity of concrete cover of a new structure (quality check and fire resistance assessment) or dealing with corrosion analysis on large elements.

Profometer Link PC tool is included with all Profometer Cover Meter and Corrosion units. It is based on an integrated suite enabling the user to process the data coming from rebar detection / concrete cover as well as corrosion potential measurement. The Profometer units can be connected to the PC via USB and the software is fully compatible

Consisting of Profometer touchscreen, universal probe with ruggedized scan cart, probe cable 1.5 m (5 ft), power supply, USB cable, chalk, DVD with software, documentation, carrying strap and carrying case

MAIN FEATURES:

- All features available on the touchscreen unit are also implemented on the PC
- Create custom reports with exported graphs and charts
- Support for the merging of several corrosion scans into a single graph
- Picture and table export (csv files)

ORDERING:

CN 0250

Profometer 630 complete



TECHNICAL SPECIFICATIONS:

Cover measuring range	up to 185 mm
Cover measuring accuracy	± 1 to 4 mm, depending on cover
Path measuring accuracy on smooth surface	0.5 to 1.0 % of measured length
Diameter measuring range	Up to 63 mm
Diameter measuring accuracy	± 1 rebar size
Memory Internal	8 GB flash memory

Resipod Resistivity Meter

DESCRIPTION:

Surface resistivity measurement provides extremely useful information about the state of a concrete structure. Not only has it been proven to be directly linked to the likelihood of corrosion and the corrosion rate, recent studies have shown that there is a direct correlation between resistivity and chloride diffusion rate.

ResiPod is a fully integrated 4-point Wenner probe, designed to perform concrete resistivity measurement in a completely non-destructive test. It is the most accurate instrument available, extremely fast and stable and packaged in a robust, waterproof housing designed to operate in a demanding site environment.

Resipod Concrete Resistivity Meter has probe spacing fixed at 38mm as required in AASHTO T 358. or 50mm probe spacing. The wider spacing allows a greater sampling size, but is still narrow enough to avoid interference from reinforcing steel in most cases.



TECHNICAL SPECIFICATIONS:

Range	0–1000 kΩcm (depending on probe spacing)
Resolution (nominal current 200μA)	±0.2 kΩcm or ±1% (whichever is greater)
Resolution (nominal current 50μA)	±2 kΩcm or ±5% (whichever is greater)
Frequency	40 Hz
Memory Non volatile	500 measured values
Power Supply	> 50 hours autonomy
Charger connection	USB type B, (5V, 100mA)
Dimensions	197 x 53 x 69.7 mm
Weight	318 g
Operating temperature	0° to 50°C
Storage temperature	-10° to 70°C

AASHTO T 358 Provisional Standard TP 95-11

MAIN FEATURES:

- Easy to use, little training required
- Delivers fast, accurate measurement results
- Wide range of resistance measurement, 1 to 1000 kΩcm
- Dedicated Windows-based software
- Charger connects to standard USB computer or laptop ports

ORDERING:

CN 0251

Resipod resistivity meter complete 38mm Probe Spacing

CN 0252

Resipod resistivity meter complete 50mm Probe Spacing

ACCESSORIES:

CN 0253

Geometric Accessory (4-Probe Wenner Array Attachment) with adjustable spacing for testing different types of concrete samples and mix designs

CN 0254

Replacement Foam Contact Pads

CN 0255

Bulk Resistivity Accessory for measuring resistivity 100 x 200mm concrete cylinders

CN 0256

Resipod Test Strip to verify performance

Ultrasonic Pulse Velocity

DESCRIPTION:

The Velocity of Ultrasonic wave in concrete is affected by elastic property or strength.

The equipment applies high voltage and sends it to transit transducer to generate ultrasonic wave. This ultrasonic wave reaches to the receive transducer through concrete. When elastic property or strength of concrete is high, the transit time is short. On the other hand, when the materials are contrary, the velocity is low.

The instrument measures the ultrasonic transit time accurately so it makes possible to evaluate a material or find elastic properties non-destructively to investigate uniformity, cavities, cracks, fire/frost damage, declamation, deterioration and strength.

It uses 54 kHz concrete transducers which were designed to send and receive ultrasonic signal effectively in highly attentive materials, including concrete, wood, stone and plastic.

The Ultrasonic equipment contains:

The main machine

A pair of 54 kHz UT Transducer

RG 58 cable with BNC to XTR-9 Connector

Ultrasonic Couplant

Reference Block

Instruction Manual

Portable Aluminum Bag



MAIN FEATURES:

- Excellent accuracy
- Color LCD background changes according to measurement mode
- Perfect in thick and attentive materials
- It is possible to connect 2 to 16 transducers
- Rugged Aluminium case

ORDERING:

CN 0257

Ultrasonic Pulse Velocity

ACCESSORIES:

CN 0258

A pair of 54 kHz UT Transducer

CN 0259

RG 58 cable with BNC to XTR-9 Connector

CN 0260

Ultrasonic Couplant

CN 0261

Reference Block



Mechanical Strain Gauge

BS 1881-206

DESCRIPTION:

The mechanical strain gauge allows strain measurement to be made at different parts of a structure using a single instrument comes with a digital gauge.

A fixed conical point is mounted at one end of the bar, and a moving conical point is mounted on a knife edge pivot at the opposite end. A setting out bar is used to position pre-drilled stainless steel discs which are attached to the structure using a suitable adhesive.

The mechanical strain gauge is available in several sizes 100, 150 200, 250 and 300 mm .

MAIN FEATURES:

- Manual single axis measurement of change in cracks
- Able to measure distance between two measurement points to a precision of 1 micron.

ORDERING:

CN 0262
Mechanical strain gauge 100 mm

CN 0263
Mechanical strain gauge 150mm

CN 0264
Mechanical strain gauge 200mm

CN 0265
Mechanical strain gauge 250mm

CN 0266
Mechanical strain gauge 300mm

TECHNICAL SPECIFICATIONS:

Accuracy	Repeatability
0,001 mm type M 0,01 mm series C	0,001 mm e 0,01 mm



Concrete Test Hammer

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/mm²

There are four models available:

- Concrete test hammer normal type complete with carrying case, PSI curve and carborundum stone.
- Concrete test hammer new shape comes complete with carrying case, PSI curve carborundum stone, Plastic grid 30x30 cm, Pencil, Fenolftaleina 100ml, Paper note, Operating manual and Calibration report
- Concrete test hammer digital type comes complete with Abrasion stone, Plastic case for stone, Plastic grid 30x30 cm, Pencil, Fenolftaleina 100ml, Paper note, Operating manual, Calibration report, Rechargeable feeder, Rigid case IP67, Mini portable printer (optional), Android application. Rock test hammer comes complete with Abrasion stone, Plastic case for stone, Plastic grid 30x30 cm, Pencil, Paper note, Operating manual, Calibration report, Rigid case IP67



The shaped surface where impact occurs is characterized by a surface hardness no less than 52 HRC, the weight of this cylinder is 16Kg ±0.5 in full compliance with reference standards

EN 12 504-2; ENV 206; DIN 1048-2; BS 188-202;
ASTM C 805; NFP 18-417; B 15-225



ORDERING:

CN 0267
Calibration anvil TAM 100

CN 0268
New Shape Concrete
Hammer

CN 0269
Rock Concrete Hammer

CN 0270
Normal Concrete Hammer

CN 0271
Digital Concrete Hammer



TECHNICAL SPECIFICATIONS:

	Range of Measurement	Impact energy
Rock	10-200 N/mm ²	0,735 Nm
Normal	5-120 N/mm ²	2,207 Nm
Digital	5-120 N/mm ²	2,207 Nm

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

Covermeter

DESCRIPTION:

The covermeter provides rebar location, sizing and cover measurement in a single weather-resistant instrument. For immediate results on-site, the onscreen gauge and audio feedback rapidly pin-point rebar location and orientation.

The Micro Covermeter is developed model with newly designed probe believed to incorporate the most accurate depth and bar size determination routines available.

Combined with extremely good resolution of multiple bars, sets the unit apart from others and sets the benchmark for covermeter surveying.

The Covermeter kit comes complete with:

- Probe with integral cable
- Battery charger
- Spare probe sole-plate
- Certificate of Conformity
- Light & tough equipment bag

MAIN FEATURES:

- Fast, accurate measurement of concrete cover
- Quick, clear indication of rebar location
- Automatic measurement of bar size
- Rapid area scanning for low-cover
- Built-in data logging

ORDERING:

CN 0272
Standard Covermeter kit

ACCESSORIES:

CN 0273
Probe with integral cable

CN 0274
Battery charger

CN 0275
Spare probe sole-plate

CN 0276
Light & tough equipment bag

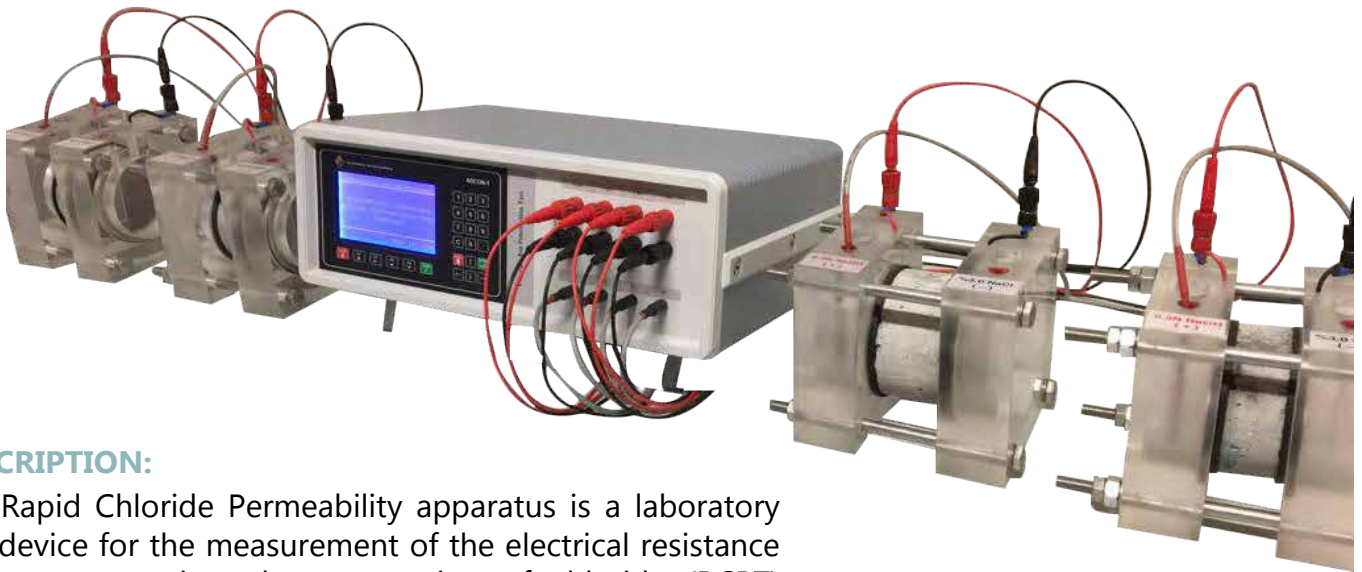


TECHNICAL SPECIFICATIONS:

		Cover Range	Accuracy
Cover measurement		5 mm – 185 mm	± 1 mm up to 60 mm depth ± 2 mm up to 120 mm depth ± 3 mm up to 160 mm depth ± 4 mm over 160 mm depth
Operating Parameters			
Operating Weight (instrument+probe+cable)	800 g		
Battery Operation	20 hrs		

Rapid Chloride Permeability

ASTM C1202; ASTM C1760; ASTM C1556;
AASHTO TP 64 AASHTO T 277



DESCRIPTION:

The Rapid Chloride Permeability apparatus is a laboratory test device for the measurement of the electrical resistance of concrete against the penetration of chloride (RCPT) according to the standard methods such as ASTM C1202, AASHTO T277 and ASTM C1760.

The measurement data can be used to estimate the chloride diffusion coefficient of concrete for the service life prediction and design of concrete structures as well as the durability-based quality control of concrete.

In concrete materials, the DC electrical resistance of concrete is correlated with important durability parameters of concrete such as chloride diffusion coefficient and the chloride migration coefficient that are used for the durability design or service life design of concrete structures.

The set comes complete with:

- 4 set of test cells ,
- 4 set of temperature sensors
- 4 pairs of test cables
- Power cord
- USB cable
- User manual
- Standard Sample Preparation Package.

TECHNICAL SPECIFICATIONS:

Testing up to	4 cells simultaneously
Voltage settings in 5 V increments	5 to 60 VDC

MAIN FEATURES:

- Digital Readout and logging system
- Stand alone operation
- Easy-to-assemble
- Accurate (± 0.1 mA)
- Flexible logging interval time (1 to 10 min)
- Four measurement channels

ORDERING:

CN 0277
Rapid Chloride Permeability test set

ACCESSORIES:

CN 0278
Test Cell

CN 0279
Stainless Steel Mesh - Pair

CN 0280
Sample Prep Package

CN 0281
Rubber Gasket Cast – Pair

CN 0282
Test Cable Set

CN 0283
Temperature Sensor

Carbonation Depth Determination

EN 13295 ; UNI 9944

DESCRIPTION:

Carbonation is a precursory condition for corrosion, which will take place when there is oxygen and water present. Preventing carbonation is the only possible way of preventing the decay of a reinforced concrete structure. therefore carbonation test is used to establish the depth of carbonation.

The test is based on collecting the powder, after analysis of the powder, making use of the chemical color change of phenolphthalein.

TECHNICAL SPECIFICATIONS:

Hole Depth	40 cm
Hole Diameter	10 mm
Phenolphthalein: Sensitivity	pH 8.3 to pH 10.0
Dimensions	390x340x140 mm
Weight approx.	3 Kg

Kit is complete with:

- 1 no. picker to collect the powder.
- 25 no. test tubes
- 1 no. measuring ruler
- 1 no. bottle of 1% solution of phenolphthalein
- 1 no. Pasteur pipette
- 1 no. cartridge
- 1 no. block of survey sheets



MAIN FEATURES:

- Innovative, easy to use and portable.

ORDERING:

CN 0284
Carbonation Depth Determination kit.

ACCESSORIES:

CN 0285
1 no. picker to collect the powder.

CN 0286
25 no. test tubes

CN 0287
1 no. bottle of 1% solution of phenolphthalein

CN 0288
1 no. Pasteur pipette

CN 0289
1 no. cartridge

CN 0290
1 no. block of survey sheets

Rebar Pull Out Force Test

ASTM C1583/D4541/D7234/D7522, ISO 4624/16276-1, BS EN 12004-2, AS/NZS 1580.408.5

DESCRIPTION:

The Apparatus are used for determining the bond strength between anchored reinforcing steel bar (rebar) and concrete and for checking anchorage performance in-situ.

Digital Readout Unit connected to a 30 tons capacity hydraulic jack and hand pump provides 1 % sensitive load or tensional strength value readings.

The Digital Rebar Pull-Out Force Tester have a steel hydrolic cylinder. For ease of handling.

The apparatus is supplied complete with three different jaw sets which allows user to test anchorage rebar with different diameters. These jaws are made of high strength steel. The three jaw sets are for 4-8mm, 10-20mm and 20-32mm dia. rebars.

ORDERING:

CN 0291
Rebar Pull Out Force Test complete

ACCESSORIES:

CN 0292
Jaw set

Rebar Pull Out Force Test

ASTM C1583/D4541/D7234/D7522, ISO 4624/16276-1, BS EN 12004-2, AS/NZS 1580.408.5



TECHNICAL SPECIFICATIONS:

Working ability	30 tons
Rebar diameters can be tested	Up to 32 mm
Tension journey (stroke)	50 mm
Dimensions	205x175x175 mm
Weight (approx.)	28 kg



Bond Strength/Pull Off Test Digital

ASTM C1583/D4541/D7234/D7522, ISO 4624/16276-1, BS EN 12004-2, AS/NZS 1580.408.5

DESCRIPTION:

Bond Strength Pull off tester is used to Measure the adhesion of coatings to metal, wood, concrete.

It measures the force required to pull a specified test diameter of coating away from its substrate using hydraulic pressure.

The pressure is displayed on a precision digital indicator and can be related to the strength of adhesion to the substrate.

There are 2 models available Manual Hydraulic pump with Digital Read-out, Automatic Electronically controlled Hydraulic pump with Digital Read-out

MAIN FEATURES:

- Portable requires no external power source
- Can be used in any position
- Self-aligning dolly enables accurate measurements on smooth or uneven surfaces
- Sealed USB port for fast, simple connection to a PC



Bond strenght/pull off test digital

ASTM C1583/D4541/D7234/D7522, ISO 4624/16276-1, BS EN 12004-2, AS/NZS 1580.408.5

The Bond Strenght Pull off tester comes complete with all accessories.

Ordering guide	50 mm Kit	50 x 50 mm Tile Kit (BS EN 12004-2)	50 mm C1533 Kit (ASTM C1583)
Typical application	Lower bond strength coatings on wood, concrete and plastic	Cementitious adhesive for tiles	Concrete surfaces and overlays
Manual model with protective case	0.4 – 3.3 MPa 50 – 480 psi	0.4 – 2.585 MPa 50 – 375 psi	0.4 – 3.3 MPa 50 – 480 psi
Automatic Models with protective case	0.4 – 3.8 MPa 50 – 560 psi 100 – 7550 N	0.4 – 3.033 MPa 50 – 440 psi 100 – 7550 N	0.4 – 3.8 MPa 50 – 560 psi 100 – 7550 N
Typical Application	Lower bond strength coatings on wood, concrete and plastic	Cementitious adhesive for tiles	Concrete surfaces and overlays
Included Dollies	Ø50 mm (qty 8) Aluminum	50 x 50 mm Plate (qty 4) with threaded post Steel	Ø50 mm (qty 4) with >25 mm thickness Steel
Cutting Tool	50 mm hole saw	-----	50 mm diamond grit hole saw with arbor
Adhesive	ResinLab EP11HT 2-Part Epoxy	ResinLab EP11HT 2-Part Epoxy	ResinLab EP11HT 2-Part Epoxy

ORDERING:

CN 0293

Adhesion Tester Manual
Model 50 mm kit

CN 0294

Adhesion tester Automatic
Model 50 mm kit

CN 0296

Adhesion Tester Manual
Model 50X50 mm (BS EN 12004-2)Tile Kit

CN 0297

Adhesion Tester Automatic
Model 50X50 mm (BS EN 12004-2)Tile Kit

CN 0298

Adhesion Tester Manual
Model 50 mm C1533 Kit

CN 0299

Adhesion Tester Automatic
Model 50 mm C1533 Kit

ACCESSORIES:

CN 0300

Dollies Ø50 mm

Column Load cell

DESCRIPTION:

The high accuracy column load cell is designed for use in applications where precise compression measurement of mid to high loads and forces is required.

The majority of high accuracy canister load cells that we manufacture are used as reference standards for the calibration or verification of other force transducers and testing machines such as compression testers.

The high accuracy column load cell can be supplied with a calibration certificate issued by a UKAS laboratory or the National Physical Laboratory (NPL) if required.

ASTM E74 CLASS A EN 10002-3 CLASS 2



MAIN FEATURES:

Capacities 500 KN to 3000 KN

ORDERING:

CN 0301

Column Load Cell 500

CN 0302

Column Load Cell 1000

CN 0303

Column Load Cell 2000

CN 0304

Column Load Cell 3000

Handheld Load Cell Indicator

DESCRIPTION:

The handheld load cell indicator is a high resolution handheld load cell indicator designed to work with all types of load cell and strain gauge based transducer.

The handheld load cell indicator's dual range facility allows for calibration in two different engineering units, i.e. Newton and kg. Alternatively, it is possible to calibrate two separate load cells or sensors with a single handheld load cell indicator display.

TECHNICAL SPECIFICATIONS:

	Weight	Depth	Height
Dimensions	90 mm	34 mm	152 mm



MAIN FEATURES:

- Portable for On-Site Monitoring
- Simple to Use
- Calibrate 2 Individual Load Cells

ORDERING:

CN 0305

The Handheld Load Cell Indicator

CN 0306

The Wireless Handheld Load Cell Indicator

Compressometer

DESCRIPTION:

Concrete Compressometers are used to determine the deformation (both axial and diametrical) of concrete cylinder specimens during the compression test.

There are 4 different models available for Ø4"x8" or Ø100x200 mm cylinders, Ø6"x12" or Ø150x300 mm.

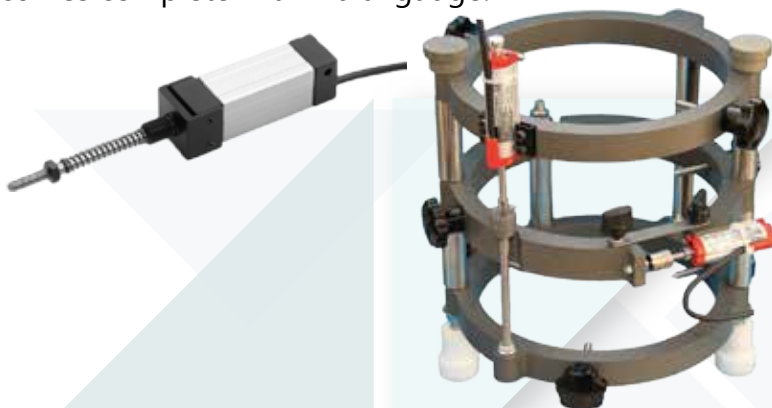
The apparatus work in conjunction with a Data Logger, ordered separately.

Compressometer Ø4"x8" or Ø100x200 mm cylinders comes complete with 2 transducers.

Compressometer Ø6"x12" or Ø150x300 mm cylinders comes complete with 2 transducers.

Compressometer Ø4"x8" or Ø100x200 mm cylinders comes complete with 2 dial gauge.

Compressometer Ø6"x12" or Ø150x300 mm cylinders comes complete with 2 dial gauge.



ASTM C469

ORDERING:

CN 0307

Compressometer Ø100x200 mm with 2 transducers.

CN 0308

Compressometer Ø150x300 mm cylinders with 2 transducers.

CN 0309

Compressometer Ø100x200 mm cylinders with 2 dial gauge.
Compressometer Ø150x300 mm cylinders with 2 dial gauge.

ACCESSORIES:

CN 0310

Digital dial Gauge

CN 0311

LVDT displacement and position transducer

CN 0312

Data Acquisition 4 Channels

CN 0313

Data Acquisition 8 Channels

CN 0314

Connection wires

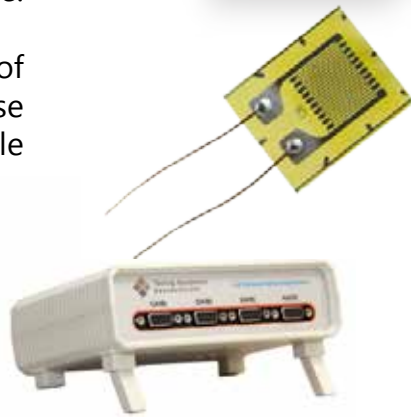
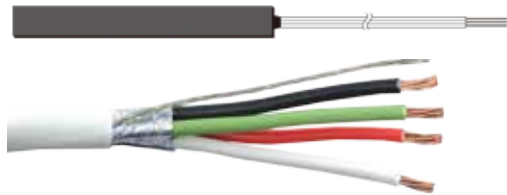
Concrete Embedded Strain Gauge

DESCRIPTION:

The Concrete-embedded Strain Gauge is designed to measure shrinkage and stress of cement and concrete materials.

The Strain Gauge is connected to the Data logger using the thermocouple wire.

There are several forms and shapes of strain gauge that can be ordered, please consult with our sales team for available options.



MAIN FEATURES:

- Strain Gauge for Static and Dynamic Applications
- Very Flexible, Mechanically Strong
- Broad Temperature Range

ORDERING:

CN 0315

Concrete-embedded Strain Gauge

ACCESSORIES:

CN 0316

Thermocouple wire

Compression Testing Machine

EN 12390-3, 4, 5,6; EN 12504-1, 1354, 1521, 13161, 1338, 1340, 196, 772-1, -6, 13286-41, BS 1881 3892-3, 187, 6073-1, 6717 ASTM C39

DESCRIPTION:

The Compression Testing Machine is a very common testing method that is used to establish the compressive force or crush resistance of a material and the ability of the material to recover after a specified compressive force is applied and even held over a defined period of time by measuring fundamental variables, such as, strain, stress, and deformation.

There are several models and capacity available for the compression test machine designed to meet the need for reliable and consistent testing of concrete samples.

Ranging from Full automatic or Semi automatic, hydraulic controlled or servo controlled. Designed to meet all standards requirement, BE, EN, ASTM.

Our range of compression machines vary from 1500 KN up to 5000 KN compression capacity.

The compression frame can be purchased separately or with hydraulic or servo controlled power pack.

The Control Power Pack in turn can be connected to another frame, such as flexural machine or another compression machine. Additional accessories such as distance pieces, Printer connection, software, block testing assembly, rail.

MAIN FEATURES:

- Designed for reliable and consistent testing of a wide range of specimens.
- User-friendly design enable an inexperienced operator to perform the test.



Automatic Compression Testing Machine

EN 12390-3, 4, 5,6; EN 12504-1, 1354, 1521, 13161, 1338, 1340, 196, 772-1, -6, 13286-41, BS 1881 3892-3, 187, 6073-1, 6717 ASTM C39

TECHNICAL SPECIFICATIONS:

Product Code	CN 0317-CN 0317-1	CN 0318-CN 0318-1	CN 0319-CN 0319-1	CN 0320-CN 0320-1	CN 0321-CN 0321-1
Capacity	1500 kN	2000 kN	3000 kN	4000 kN	5000 kN
Standard	EN 12390-4	EN 12390-4	EN 12390-4	EN 12390-4	EN 12390-4
Lower Platens Dimensions	Ø300 mm	Ø300 mm	Ø300 mm	Ø300 mm	Ø300 mm
Upper Platens	Ø300 mm	Ø300 mm	Ø300 mm	Ø300 mm	Ø300 mm
Maximum vertical clearance between platens	340 mm	340 mm	340 mm	520 mm	520 mm
Piston Diameter	300 mm	300 mm	350 mm	400 mm	420 mm
Maximum piston movement	50 mm	50 mm	50 mm	100 mm	120 mm
Horizontal Clearance	385 mm	385 mm	445 mm	495 mm	515 mm
Maximum working pressure	280 Bar	280 Bar	310 Bar	315 Bar	350 Bar
Frame	CN 0340	CN 0341	CN 0342	CN 0343	CN 0344
Power Pack	CN 0345	CN 0345	CN 0345	CN 0345	CN 0345
Dimensions Frame	630x660x1090 mm	630x660x1090 mm	735x670x1140 mm	805x710x1370 mm	865x640x1555 mm
Dimensions Power Pack	370x400x920 mm	370x400x920 mm	370x400x920 mm	605x455x1015 mm	605x455x1015 mm
Weight Frame	1030 kg	1030 kg	1800 kg	2350 kg	3150 kg
Weight Power Pack	85 kg	85 kg	85 kg	150 kg	150 kg

Product Code	CN 0322-CN 0322-1	CN 0323-CN 0323-1	CN 0324-CN 0324-1	CN 0325-CN 0325-1	CN 0326-CN 0326-1
Capacity	1500 kN	2000 kN	3000 kN	4000 kN	5000 kN
Standard	ASTM C39	ASTM C39	ASTM C39	ASTM C39	ASTM C39
Lower Platens Dimensions	Ø300 mm	Ø300 mm	Ø300 mm	Ø300 mm	Ø300 mm
Upper Platens	Ø300 mm	Ø300 mm	Ø300 mm	Ø300 mm	Ø300 mm
Maximum vertical clearance between platens	370 mm	370 mm	370 mm	520 mm	520 mm
Piston Diameter	300 mm	300 mm	350 mm	400 mm	420 mm
Maximum piston movement	50 mm	50 mm	50 mm	100 mm	120 mm
Horizontal Clearance	385 mm	385 mm	445 mm	495 mm	515 mm
Maximum working pressure	280 Bar	280 Bar	310 Bar	315 Bar	350 Bar
Frame	CN 0327	CN 0328	CN 0329	CN 0330	CN 0331
Power Pack	CN 0332	CN 0332	CN 0332	CN 0332	CN 0332
Dimensions Frame	630x660x1090 mm	630x660x1090 mm	735x670x1140 mm	805x710x1370 mm	865x640x1555 mm
Dimensions Power Pack	370x400x920 mm	370x400x920 mm	370x400x920 mm	605x455x1015 mm	605x455x1015 mm
Weight Frame	1030 kg	1030 kg	1800 kg	2350 kg	3150 kg
Weight Power Pack	85 kg	85 kg	85 kg	150 kg	150 kg

The full automatic models comes with complete automatic test cycle, a closed loop digital readout unit. Once the specimen parameters have been introduced, it is sufficient to press START button to complete the test.

The Full automatic compression machines consist of their main parts: Frame, power pack and data acquisition control system.

The compression machines consist of a heavy duty frame, 4 column or welded type, depending on the standard required. connected to the automatic hydraulic power pack with data acquisition and digital control system.

The digital control system Button type or touch screen models are also available, depending on the user preference.

The Full automatic compression machine can be full controlled and operated from a PC connected directly to the machine. A small printer connection is also available for a quick printout.



Automatic Compression Testing Machine

EN 12390-3, 4, 5,6; EN 12504-1, 1354, 1521, 13161, 1338, 1340, 196, 772-1, -6, 13286-41, BS 1881 3892-3, 187, 6073-1, 6717 ASTM C39

DESCRIPTION:

The dual stage power pack which controlled by the control system is designed to supply the required oil pressure to the frame.

The Semi-automatic models comes with complete valve controlled test cycle, There are two valves on the oil tank. One valve is the pace rate control valve. It is used for controlling the pace rate. When you push it forward, the pace rate increases fast.

In order to make fine-tuning, top valve is turned clockwise to increase load in small amount or counter-clockwise direction to decrease.

The Semi-automatic compression machines consist of their main parts: Frame, power pack with valve control and digital readout unit.

The valve control power pack is designed to supply the required oil pressure to the frame. Very silent power pack can load specimen between 1KN/sec to 20KN/sec. On all power packs maximum pressure valve is used to avoid machine overloading.

Very silent power pack can load specimen between 1KN/sec to 20KN/sec. On the dual sage pump high delivery low pressure pump is used for rapid approach and delivery high pressure radial piston pump is used for test execution. On all power packs maximum pressure valve is used to avoid machine overloading.

The Servo controlled hydraulic pack is an advanced system that can very accurately control the speed loading rate.

The user have full control of the load cycle before or during the test. In a way that you can set the machine preplanned cycle or change speed, even hold the load during the test cycle for a period of time.

The servo controlled hydraulic system, comes complete with a digital touch screen control system and data acquisition that can send the result either by blue tooth, email, printout or save.



Automatic Compression Testing Machine

EN 12390-3, 4, 5,6; EN 12504-1, 1354, 1521, 13161, 1338, 1340, 196, 772-1, -6, 13286-41, BS 1881 3892-3, 187, 6073-1, 6717 ASTM C39

MAIN FEATURES:

- Pace rate control from 0.01 kN/s to 100kN/s (depend on the specimen stiffness)
- Extra channels for displacement transducers, extensometers, etc. built in the system as an addition to frame loadcell (pressure transducer) or displacement transducer
- Ethernet port for connecting to computer
- 240x320 pixel LCD digital display, Touchscreen operator panel, Can control 2 frames
- Can execute load, displacement or strain controlled tests.
- Free of charge PC software for test control and advanced report printout
- Multiple language support
- Real time clock/date

ORDERING:

CN 0317

Full Auto Compression Machine, 1500KN, EN

CN 0318

Full Auto Compression Machine, 2000KN, EN

CN 0319

Full Auto Compression Machine, 3000KN, EN

CN 0320

Full Auto Compression Machine, 4000KN, EN

CN 0321

Full Auto Compression Machine, 5000KN, EN

CN 0322

Full Auto Compression Machine, 1500KN, ASTM

CN 0323

Full Auto Compression Machine 2000KN, ASTM

CN 0324

Full Auto Compression Machine, 3000KN, ASTM

CN 0325

Full Auto Compression Machine, 4000KN, ASTM

CN 0326

Full Auto Compression Machine, 5000KN, ASTM

CN 0317-1

Semi Automatic Compression Machine, 1500KN, EN

CN 0318-1

Semi Automatic Compression Machine, 2000KN, EN

CN 0319-1

Semi Automatic Compression Machine, 3000KN, EN

CN 0320-1

Semi Automatic Compression Machine, 4000KN, EN

CN 0321-1

Semi Automatic Compression Machine, 5000KN, EN

CN 0322-1

Semi Automatic Compression Machine, 1500KN, ASTM

CN 0323-1

Semi Automatic Compression Machine, 2000KN, ASTM

CN 0324-1

Semi Automatic Compression Machine, 3000KN, ASTM

CN 0325-1

Semi Automatic Compression Machine, 4000KN, ASTM

CN 0326-1

Semi Automatic Compression Machine, 5000KN, ASTM

ACCESSORIES:

CN 0327

Frame 1500KN

CN 0328

Frame 2000KN

CN 0329

Frame 3000KN

CN 0330

Frame 4000KN

CN 0331

Frame 5000KN

CN 0332

Hydraulic servo Power Pack

CN 0333

Distance Piece 20mm

CN 0334

Distance Piece 30mm

CN 0335

Distance Piece 50mm

CN 0336

Distance Piece 90mm

CN 0337

Distance Piece 100mm

Block Test Platens Sliding

EN 772-1, 12390-4, BS 6073-1

DESCRIPTION:

The Block Platens 460x280x65 mm with Sliding Rail Assembly are installed on the compression testing machines for testing concrete blocks and other structural materials. The Sliding Rail Assembly allows the platens to be easily installed without removing the existing compression platens. This assembly should be factory installed.

Block Platens Lifting Assembly is used for easy removal of the lower platen and easy replacement of the distance pieces between the piston and the lower platen without lifting the heavy platform or causing injury.



ORDERING:

CN 0338
Block Test Platens

CM 0339
Block Test Platens Sliding Rail Assembly

CN 0340
Lifting mechanism



TECHNICAL SPECIFICATIONS:

Dimensions	Weight (approx.)
500x300x150 mm	175 kg

Splitting Tensile Device

EN 1338, EN 12390-6, ASTM C 496

DESCRIPTION:

Two column steel frame with self-centering base specimen holder and upper load beam suspended with springs for easy adjustment of the specimen. The devices can be easily placed on lower platen of the compression tester using suitable distance pieces to adjust the vertical daylight. The device have to be completed with the packing strips to be inserted between the specimen and the load beams.

CN 0341 is used for splitting tensile tests on cylindrical specimens. CN 0342 is used for splitting tensile tests on concrete block pavers and concrete cubes.

For both models max total height is 370 mm. The 370 mm vertical daylight can easily obtained removing the lower platen of the compression tester.

ORDERING:

CM 0341
Splitting Tensile Test Device for cylinders, Ø150x300 mm and Ø160x320 mm

CM 0342
Splitting Tensile Test Device for Concrete Block Pavers, 60-150 mm height x 220 mm length

CM 0343
Splitting Tensile Test Device for Cubes, 150x150 mm

TECHNICAL SPECIFICATIONS:

	Dimensions
Cylindrical Specimens	Ø150x300 mm / Ø160x320 mm
Concrete Block Pavers	60-150x220 mm
Concrete Cubes	150x150 mm



Flexural Test Equipment

EN 1338, 1339, 1340, 1341, 1343, 13748-1, 13748-2, 12390-5, 12390-6; BS 1881; ASTM C78, C293, C496

DESCRIPTION:

The Flexural test equipment is used to test flexural strength of concrete beams, kerbs, interlocking pavers, flagstones and blocks of different sizes.

The flexural test equipment ranges from 100 kN to 300 kN capacity, it has been designed for reliable and consistent testing due to its heavy steel fabrication and design.

The flexural test equipment comes in two types of frames, the U type and the C type frame. Both very rigid design is ideal either for conventional flexural test or for more sophisticated tests such as deformability and ductility index.

MAIN FEATURES:

- 2 different designs
- 4 different capacities
- Safety limit switch for 100 or 120 mm piston stroke
- High accuracy load measurement with strain gauge load cells
- Accept a wide range of assemblies to satisfy all tests
- Can be connected to compression machine or power pack

The Flexural Machines feature the complete automatic test cycle with a closed loop digital readout. Once the specimen parameter have been introduced, it is sufficient to press the START button to complete the test.

The Flexural Frame can be connected to any Geotechnical compression machine as a second frame or can be used individually with any power pack as an independent Flexural Machine.

Flexural test assemblies should be ordered separately.

- Bearers for flexure test on flagstones and kerbs to EN 1339 and 1340. Consist of two lower roller of 20 mm dia. x 600 mm length and upper load point of 40 mm dia with ball seating
- Bearers for flexural test on concrete blocks Consist of two lower roller and one upper roller of 20 mm dia. x 600 mm length
- Bearers for flexural test on concrete beams of 100x100x400-500 mm, 150x150x600-750 mm. Consist of two upper rollers and two lower rollers of 40 dia and 160 mm length. Complying to EN 12390-5 and ASTM C78.

The distance of the lower bearers can be adjusted between 100mm and 800mm. The distance between upper bearers can be set to 100mm or 150 mm.

During the 3 point Flexural testing one of the bearers can be removed and the other placed in the centre.

TECHNICAL SPECIFICATIONS:

Max. Vertical Clearance	425 mm (without accessories)
Max. Horizontal Clearance	650 mm
Max. Clearance Between Lower Rollers	900 mm
The Distance Between The Center of The Piston to The Side of The Frame	320 mm
Overall Dimensions	1000x950x1250 mm
Weight (approx.)	425 kg

Flexural Test Equipment

EN 1338, 1339, 1340, 1341, 1343, 13748-1, 13748-2, 12390-5, 12390-6; BS 1881; ASTM C78, C293, C496



ORDERING:

CN 0344

Flexural Testing Machine, 100 kN capacity U Type Frame

CN 0345

Flexural Testing Machine, 150 kN capacity U Type Frame

CN 0346

Flexural Testing Machine, 200 kN capacity U Type Frame

CN 0347

Flexural Testing Machine, 300 kN capacity U Type Frame

CN 0348

Flexural Testing Machine, 100 kN capacity C Type Frame

CN 0349

Flexural Testing Machine, 150 kN capacity C Type Frame

CN 0350

Flexural Testing Machine, 200 kN capacity C Type Frame

CN 0351

Flexural Testing Machine, 300 kN capacity C Type Frame

ACCESSORIES:

CN 0352

Bearers for flexure test on flagstones and kerbs

CN 0353

Bearers for flexure test on concrete blocks

CN 0354

Flexural Test assembly on Concrete Beams

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