CONCRETE

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CONCRETE


ALFA
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OIL LEVEL

COMPRESSION TESTER (B-001/LCD)

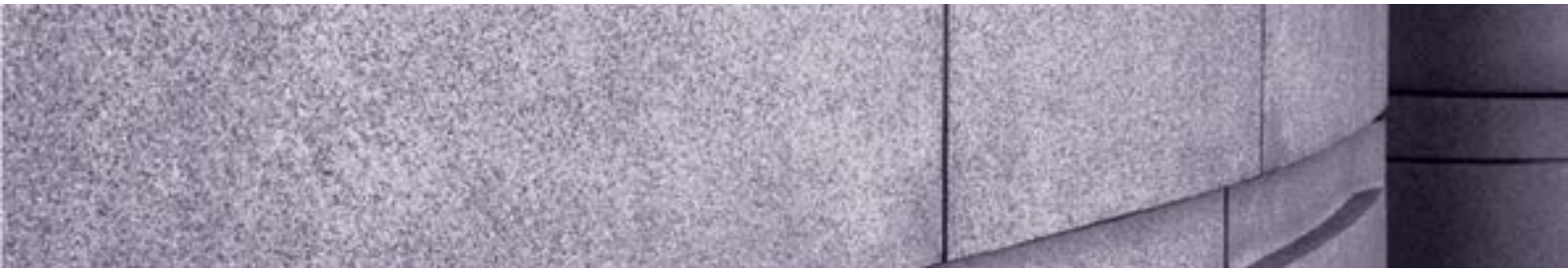
ASTM C39 • EN 12390:4

- Used to test the compression strength of concrete cubes/cylinders of different sizes.
- The rigid design provides stability and strength for a better using experience.
- Equipped with an LCD unit that displays the data graphically of each test with the ability to save and recall the results of the tested specimens.
- The Data Acquisition Control provides real-time graphical indication.
- Automatically determines the load rate in accordance with the international standards upon sample type.
- With the AUTO-STOP function, the test will automatically stop.
- Fully automatic mode or manual mode in which the user gets the ability to adjust the load rate and period manually are available.
- The upper seating adjusts itself to apply homogeneous loading on the sample.
- Supplied complete with spacer discs.

Code	B-001/LCD/1	B-001/LCD/2	B-001/LCD/3
Capacity	1,125 kN 250,000 lb	2,000 kN 450,000 lb	3000 kN 650,000 lb

COMPONENTS

Rexroth Bosch Group · OMRON · HAWE HYDRAULIK · YASKAWA



COMPRESSION TESTER (B-001/LCD)

ASTM C39 • EN 12390:4

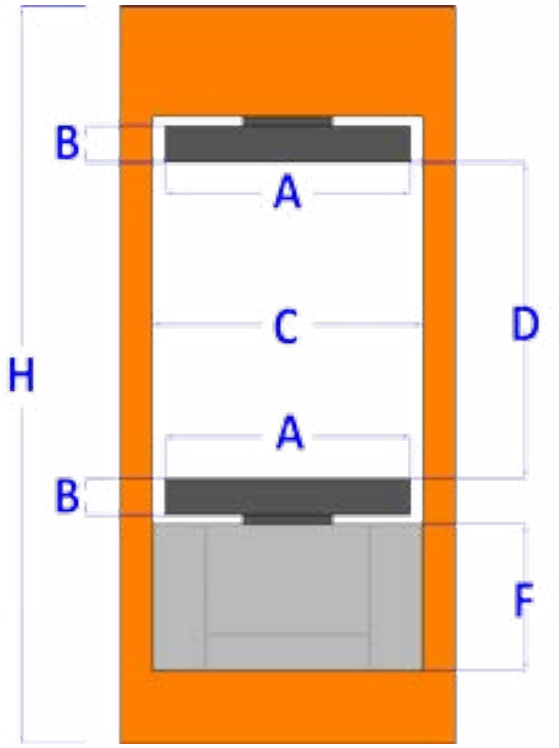
TECHNICAL SPECIFICATIONS

- Fully Automatic.
- Graphical - LCD Data Acquisition Control System.
- Automatic Load Rate upon Sample Type.
- Stops Automatically, when Test is completed.
- Real time graph indication.
- Total Load and also Per Area are given.
- Test results can be transferred to computer to be printed or from the thermal printer.
- Different units are available (kN / kgf / lbf).
- Calibration done easily on 5 pts.
- Manual Control is available.
- If weight of sample entered, Unit Weight is determined.
- Rigid Frame.
- Upper and Lower Platens in accordance with international Specifications.
- Upper Seating for Homogeneous Loading.
- Distance Pieces included.
- Power Supply: 220 - 240 V / 50 - 60 Hz (110 V / 60 Hz is also available)
- Computer and printer are not included in the price

COMPRESSION TESTER (B-001/LCD)

ASTM C39 • EN 12390:4

	B-001/LCD/2	B-001/LCD/3
Capacity	2000 kN	3000 kN
Frame	Welded, Rigid mono-block frame	Welded, Rigid mono-block frame
Upper Platen Dimension (A)	Ø 300 mm	Ø 300 mm
Lower Platen Dimension (A)	Ø 300 mm	Ø 300 mm
Piston Stroke	50 mm	50 mm
(B)	50 mm	50 mm
Horizontal Clearance (C)	330 mm	440 mm
Maximum Vertical Clearance (D)	345 mm	345 mm
(F)	185 mm	185 mm
Height (H)	890 mm	940 mm



SAMPLE SIZES

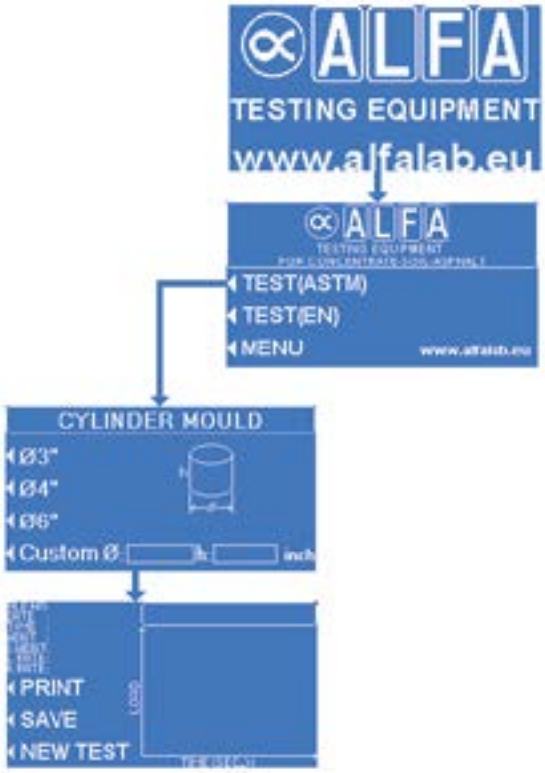
- Cubes with side length of 100 mm, 150 mm, 200 mm or any other custom cube/prism size can be tested with the machine.
- Cylinders with diameter of 150 mm, 160 mm and height of 300 mm, 320 mm relatively or any other custom diameter and height can be tested with the machine.

NAVIGATING THROUGH THE LCD CONTROL UNIT

- Using the LCD control unit, to perform tests, to calibrate and to adjust the settings of the machine provides an easy and user-friendly experience.

COMPRESSION TESTER (B-001/LCD)

ASTM C39 • EN 12390:4

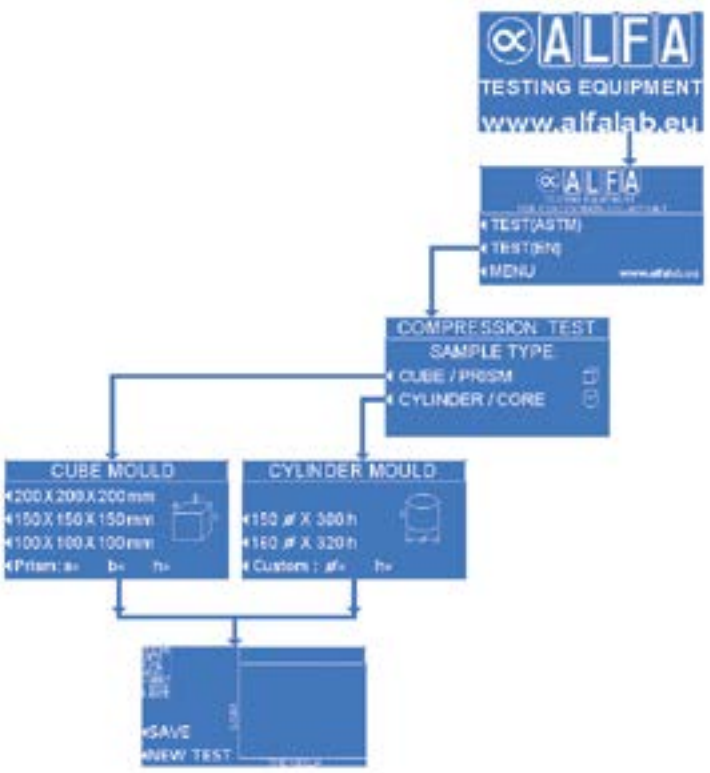


PERFORMING THE TEST ACCORDING TO ASTM STANDARDS

- Simply navigate through the LCD control panel by selecting “TEST (ASTM)” from the main screen.
- Choose the diameter of the cylinder (in inches) or specify the custom dimensions of your sample.
- Choose the mode from the main screen by selecting either AUTOMATIC or MANUAL.
- Press “Start” to begin the test.

COMPRESSION TESTER (B-001/LCD)

ASTM C39 • EN 12390:4



PERFORMING THE TEST ACCORDING TO EN STANDARDS

- Simply navigate through the LCD control panel by selecting “TEST (EN)” from the main screen.
- Choose the sample size (in millimeters) or specify the custom dimensions of your sample.
- Choose the mode from the main screen by selecting either AUTOMATIC or MANUAL.
- Press “Start” to begin the test.

COMPRESSION TESTER (B-001/LCD)

ASTM C39 • EN 12390:4

THE DESIGN

- The rigid frame provides stability and firmness to the machine. Choosing the best components to build-up the machine gives the machine more strength and longer working-age.

CALIBRATING THE MACHINE

- Calibration can be easily done in 1 or 2 or ... 5 points
- To view the Calibration Procedure, kindly navigate through the menu [MENU > CALIBRATION MANUAL]

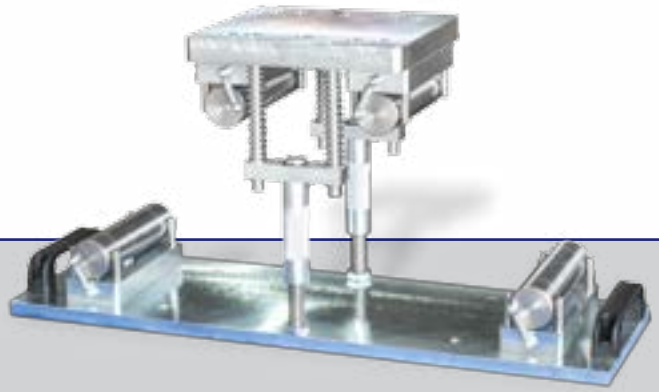
COMPRESSION TESTER (B-001/LCD)

ASTM C39 • EN 12390:4

- The tests and calibration can be done and monitored with a computer by connecting it to the machine. Using the state-of-the-art software provided by ALFA with the machine will help performing and managing the tests in a very easy and fast way.
- By performing the tests via computer, the results can be saved and recalled when required. Reports can be generated automatically by the software and sent to printer.

FLEXURE APPARATUS for CONCRETE BEAMS (B-003/BFA)

- Used to perform flexural tests on concrete beams.

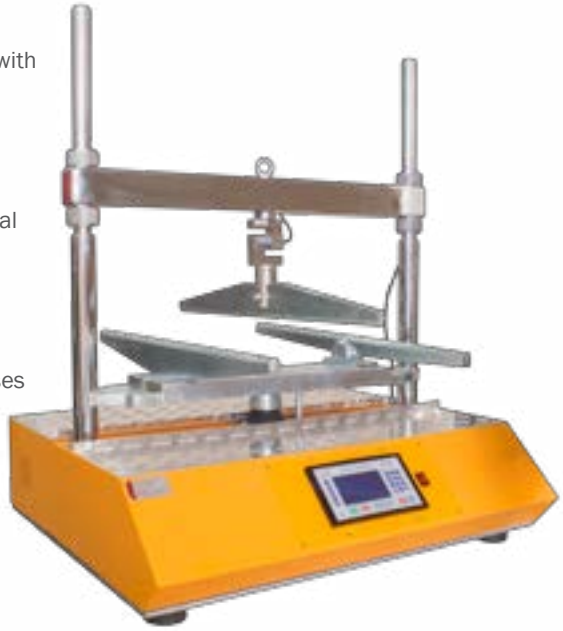


TECHNICAL SPECIFICATIONS

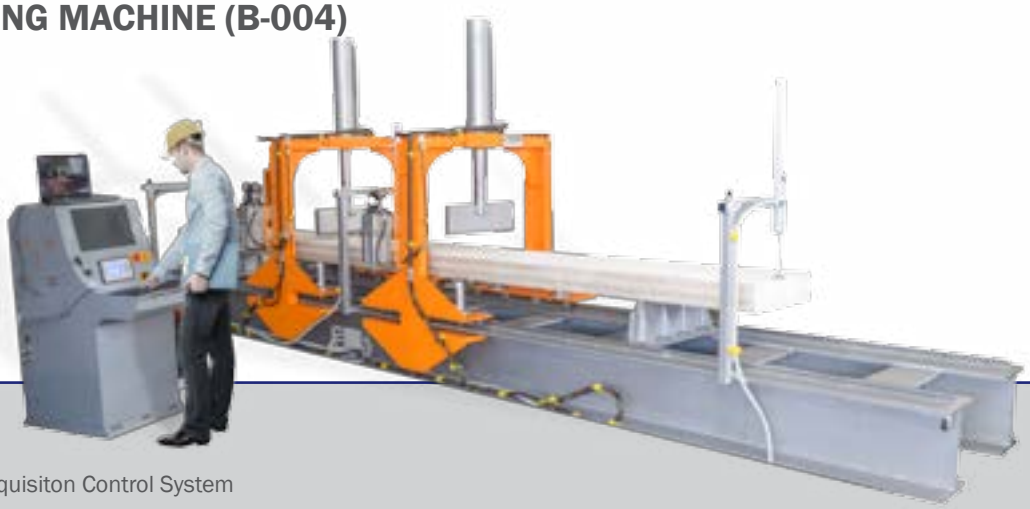
- Made of galvanized steel
- Can perform 3-points or 4-points flexural tests on the following concrete beam samples:
  - 100 x 100 x 400 mm
  - 100 x 100 x 500 mm
  - 150 x 150 x 600 mm
  - 150 x 150 x 750 mm

FLEXURAL TESTING MACHINE (B-003/LCD)

- Used to test the flexural strength of the samples.
- The rigid design provides stability and strength to the machine for a better using experience.
- Equipped with an LCD unit that displays the data graphically of each test with the ability to save and recallthe results of the tested materials.
- The Data Acquisition Control provides a real-time graphical view for the sample.
- Automatically determines the load rate in accordance with the international standards upon sample type.
- With the AUTO-STOP function, the machine will automatically stop upon finishing the test.
- Can be made with different capacities and designs to serve varied purposes and to cover wider range of test samples such as:
  - Curbstone (B-001/CS)
  - Tiles (with sizes up to 80 x 80 cm) (B-001/T)
  - Concrete Beams (B-001/CB)
- The capacity for the equipment is to be specified at the time of inquiry.
- The maximum size of sample is to be specified at the time of inquiry.



SLAB TESTING MACHINE (B-004)



- Fully Automatic
- Graphical Data Acquisiton Control System
- Two Pistons with Capacity of 100 kN each
- Flexure span is adjustable
- Flexure test for 3 or 4 points
- Hydraulic System
- Supplied with 2 deformation measurement systems

CONCRETE PIPE TESTING MACHINE (B-001/PT)

- Supplied with a graphical LCD Data Acquisition Control System and an ability to store and report the results.
- The calibration for the equipment can be easily done on 5 pts.
- Pipe length and diameter should be specified at the time of inquiry.

Concrete Pipe Tester (B-001/PT)

Code	B-001/PT/0400	B-001/PT/1000
Capacity	400 kN 40 ton	1000 kN 100 ton
Pipe Diameter	Min. 300 mm Max. 1600 mm	Min. 300 mm Max. 2400 mm
Pipe Length	Min. 1000 mm Max. 2000 mm	Min. 1500 mm Max. 3000 mm

CYLINDER MOULD (B-010)

- Designed to be easily mounted and demounted.
- Available in two types; Metal and Plastic.
- Different sizes are available:
  - Ø 10 x 20 cm (Ø 4” x 8”)
  - Ø 15 x 30 cm (Ø 6” x 12”)
  - Ø 16 x 32 cm

Cylinder Mould (B-010/M)

Cylinder Mould (B-010/P)

Code	Diameter / Height
B-010/M/10	Ø 10 x 20 cm
B-010/M/15	Ø 15 x 30 cm
B-010/M/16	Ø 16 x 32 cm
B-010/P/10	Ø 10 x 20 cm
B-010/P/15	Ø 15 x 30 cm

CYLINDRICAL CAPPING SET (B-015)

- Consists of a melting pot and a Capping Apparatus.
- The melting pot is used to melt the capping compounds. The temperature of the pot is adjustable with the thermoregulator. Pilot lamp built-in the pot is used to indicate the heating status.
- The melting pot is made of double-walled frame.

Cylindrical Capping Set (B-015)

TECHNICAL SPECIFICATIONS

- Capping pot:
  - Thermally Controlled
  - Double wall / isolated.
- Capping apparatus

Code	Dimensions (± 1 cm)	Approximate Weight (kg)
B-015	33 x 29 x 29 (h)	22

MOULDS (B-01x)

Code	Shape	Material	Type	Internal Dimensions (mm)
B-011/M/10	Cube	Steel	Single Gang	100 x 100 x 100
B-011/P/10-2	Cube	Plastic	Double Gang	100 x 100 x 100
B-011/M/15	Cube	Cast Iron	Single Gang	150 x 150 x 150
B-001/P/15	Cube	Plastic	Single Gang	150 x 150 x 150
B-011/M/20	Cube	Cast Iron	Single Gang	200 x 200 x 200
B-017/40	Prism / Beam	Steel	Single Gang	100 x 100 x 400
B-017/50	Prism / Beam	Steel	Single Gang	100 x 100 x 500
B-017/60	Prism / Beam	Steel	Single Gang	150 x 150 x 600
B-017/75	Prism / Beam	Steel	Single Gang	150 x 150 x 750

CONCRETE FLOW TABLE (B-024)

- Used for determining the concrete workability
- Consists of flow table, cone and wooden tamper

SUPPLIED WITH

- Cone (Ø 130/200 mm - Height 200 mm)
- Wooden Tamper

VEBE CONSISTOMETER (B-130)

BS 12350 • BS 1881-104

- Consists of a vibrating table, a cylindrical pan, a slump cone, and a disc attached to a free-moving rod that serves as a reference end point.
- The cone is placed in the pan, filled with concrete, and removed. The disc is brought into position on top of the concrete cone, and the vibrating table is set in motion.
- The time required to remould the concrete, from the conical to the cylindrical shape, is a measure of the consistency and is reported as Vebe Seconds.

Vebe Consistometer (B-130)

TECHNICAL SPECIFICATIONS

- EN 12350, BS 1881-104
- Fixed amplitude and frequency
- Supplied with:
  - Acrylic Disc
  - Slump Cone
  - Tamping Rod
- Power Supply: 220 - 240 V / 50 or 60 Hz (110 V / 60 Hz is also available)

Code	Dimensions (± 1 cm)	Approximate Weight (kg)
B-130	56 x 30 x 87 (h)	105

SLUMP SET (B-020)

BS 12350 • BS 1881 • ASTM C143

- The consistency is a measure of the wetness of the concrete mixture, which is commonly evaluated in terms of slump. The test gives indication of the ease with which the concrete flows.
- Available in galvanized or stainless steel.

Slump Set (B-020/G)

Item	Galvanized (B-020/G)	Stainless Steel (B-020/SS) *
Slump Cone	B-020/G/C	B-020/SS/C
Base Plate	B-020/G/BP	B-020/SS/BP
Slump Cone Funnel	B-020/G/F	-
Tamping Rod (Ø16 mm x 600 mm)	B-020/G/TR	-

* With stainless steel slump set, the supplied slump cone funnel and tamping rod are made of galvanized steel.

L-BOX APPARATUS (B-026)

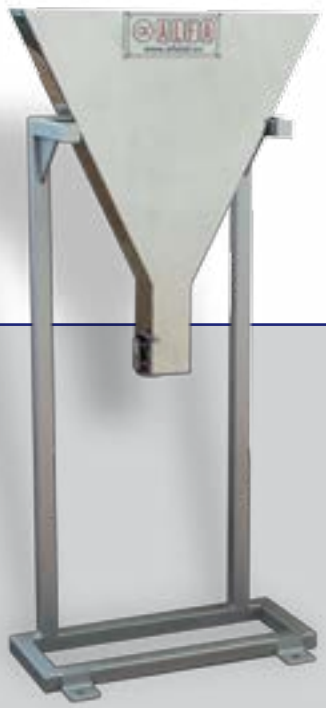
- Used to determine the confined flowability of fresh Self-Consolidating Concrete (SCC) and to evaluate the filling and passing ability
- Made of stainless steel
- Supplied with 2 different obstacles:
  - 2 x Ø12 mm smooth bars having 59 mm gaps
  - 3 x Ø12 mm smooth bars having 41 mm gaps

TECHNICAL SPECIFICATIONS

- Made of stainless steel
- Guillotine form gate

V-FUNNEL APPARATUS (B-025)

- Used in Flow-time determination for Self-Consolidating Concrete (SCC)
- Out flow orifice is equipped with a valve that can be openned momentarely
- Supplied with bucket



TECHNICAL SPECIFICATIONS

- Made of stainless steel
- Stand-mounted

U-SHAPE BOX APPARATUS (B-029)

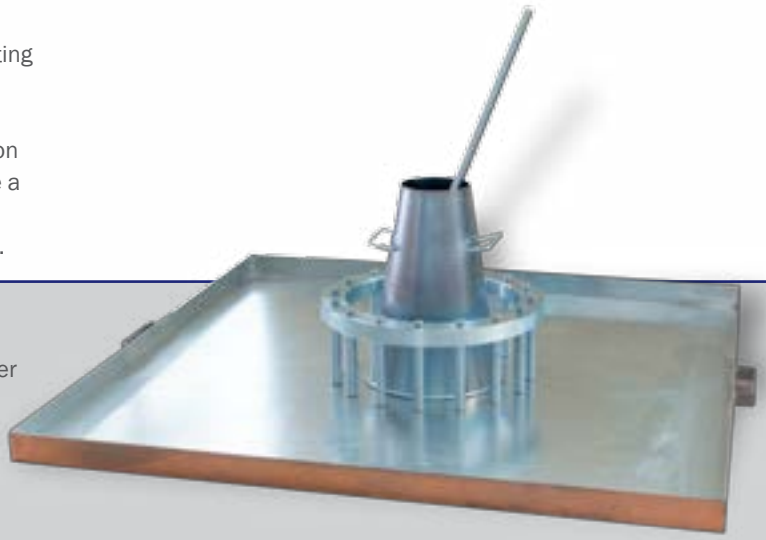
- Used to determine the confined flowability of Self-Consolidating Concrete (SCC)

TECHNICAL SPECIFICATIONS

- Made of stainless steel
- Guillotine form gate

J-RING APPARATUS (B-027)
ASTM C1621

- Used to determine the passing ability of self-consolidating concrete (SCC).
- The apparatus consists of a rigid ring supported on sixteen 16 mm (5/8 in) diameter rods equally spaced on a 300 mm (12 in) diameter circle 100 mm (4 in) above a flat surface.
- Supplied with slump cone, tamping rod and base plate.



TECHNICAL SPECIFICATIONS

- Evenly distributed 16 rods, each with Ø 16 mm diameter

COMPACTING FACTOR APPARATUS (B-185)

- Consists of two conical hoppers attached on a cylinder, and everything is fixed on a robust steel frame.
- Each hopper is equipped with a hinge for a Quick Release mechanism.
- The apparatus is designed to perform the test in a more precise and accurate way.
- The compacting factor is the ratio between the weight of the concrete which is partially compacted in the cone to the weight of the fully-compacted concrete in the cylinder.
- Supplied with a tamping rod.

Compacting factor apparatus (B-185)

TECHNICAL SPECIFICATIONS

- Two conical hoppers
- A cylindrical mould fitted beneath the hoppers
- Supplied with:
  - Tamping Rod

Code	Dimensions (± 1 cm)
B-185	55 x 35 x 130 (h)

CONCRETE PENETROMETER (B-135)

- Used to determine the setting time of mortar fraction in concrete mixes for samples with slump more than zero.
- Consists of a spring penetrometer and interchangeable stainless steel needles.
- Equipped with a sliding ring that indicates the load reached upon testing.

Concrete Penetrometer (B-135)

SUPPLIED WITH

- Carrying Case

VIBRATING TABLE (B-125)

- Designed from robust steel sheets and has a very steady frame.
- Used to compact the concrete specimens in the laboratory.
- The Vibrating Table size is 400 x 600 mm.
- Equipped with a vibrating motor.
- Supplied with a clamp Assembly for moulds.

Vibrating Table (B-125)

TECHNICAL SPECIFICATIONS

- Vibrating Table :400x600 mm
- Clamp Assembly for moulds
- Power Supply: 220 - 240 V / 50 or 60 Hz (110 V / 60 Hz is also available)

Code	Dimensions (± 1 cm)	Approximate Weight (kg)
B-125	41 x 61 x 87 (h)	53

POKER VIBRATOR (B-128)

- The lab-type poker vibrator is used for internal compaction for the concrete specimens.
- The flexible shaft is 1 meter long.

Poker Vibrator (B-128)

TECHNICAL SPECIFICATIONS

- Lab Type
- 1 m. flexible shaft
- Direct Connection to the Motor
- Power Supply: 220 - 240 V / 50 or 60 Hz

AIRMETER (B-320/B)

ASTM C213 • BS 1881-106

- Used to determine the the volume change in a sample due to the application of pressure.
- The pressure gauge shows the direct percentage (to the nearest 0.1%) for the amount of air entrained.
- The capacity for the airmeter is 7 liters.
- The maximum aggregate size that can be used in this airmeter is 50 mm.
- The pump is built-in with the equipment.
- Supplied with a straight edge and a syringe.

Airmeter (B-320/B)

SUPPLIED WITH

- Straight edge
- Syringe
- Plastic carrying case

TECHNICAL SPECIFICATIONS

- B Type Air Meter
- Capacity : 7 lt
- Air Content range : 0% - 100%
- Max Aggragate Size : 50 mm
- Built-in pump

CURING TANK - PLASTIC (B-140/P)

ASTM C31 • BS 1881-11

- Used to cure cylinders, cubes, beams and other samples that requres total immersion in water at a speficied constant temperature.
- Equipped with a digital thermostat and indicator.
- Supplied with a base rack and a water circulation pump.

Curing Tank - Plastic (B-140/P)

SUPPLIED WITH

- Digital Thermostat and indicator
- Base Rack
- Water Circulation Pump

Code	Dimensions (± 1 cm)	Capacity (lt)
B-140/P	150 x 100 x 80 (h)	1200
B-140/P-L	200 x 100 x 80 (h)	1600

TECHNICAL SPECIFICATIONS

- Made of plastic
- Power Supply: 220 - 240 V / 50 or 60 Hz (110 V / 60 Hz is also available)

CURING TANK - METAL (B-140/M)

ASTM C31 • BS 1881-11

- Used to cure cylinders, cubes, beams and other samples that requres total immersion in water at a speficied constant temperature.
- Equipped with a digital thermostat and indicator.
- Supplied with a base rack and a water circulation pump.

Curing Tank (B-140/M)

SUPPLIED WITH

- Digital Thermostat and indicator
- Base Rack
- Water Circulation Pump

TECHNICAL SPECIFICATIONS

- Made of powder-coated metal
- Power Supply: 220 - 240 V / 50 or 60 Hz (110 V / 60 Hz is also available)

Controling Unit (B-140/M/CU)

Code	Dimensions (± 1 cm)	Approximate Weight (kg)
B-140/M	220 x 75 x 85	106

DRUM - TYPE MIXER (B-121)

- Used to create concrete mixes and specimens. The drum-type mixers provides efficient and homogeneous mixtures.
- Equipped with a manual discharge placed at the side of the mixer for direct emptying for the drum.

Drum-Type Mixer (B-121)

TECHNICAL SPECIFICATIONS

- Capacity : 120 Lt
- Lightweight but sturdy
- Mixing blade built in
- Power Supply: 220 - 240 V / 50 or 60 Hz

Code	Dimensions (± 1 cm)	Approximate Weight (kg)
B-121	75 x 125 x 66 (h)	70

PAN - TYPE MIXER (B-120)

- Used to create concrete mixes and specimens. The pan-type mixers provides efficient and homogeneous mixtures.
- Equipped with a manual discharge placed at the side of the mixer for direct emptying for the pan.
- The capacity of the pan is 100 lt, and the efficient mixing capacity is 56 lt.

Pan - Type Mixer (B-120)

TECHNICAL SPECIFICATIONS

- Pan Capacity: 100 lt.
- Efficient Capacity: 56 lt.
- Easy lifting mechanism
- Portable
- Rotated by a motor reducer
- Complete with blades

Code	Dimensions (± 1 cm)	Approximate Weight (kg)
B-120	97 x 98 x 117 (h)	236

CONCRETE WATER IMPERMEABILITY TESTER (B-245)
EN 12390:8

- Used for determining the depth of penetration of water under pressure.
- Cubic, prismatic or cylindrical specimens having maximum dimensions of 200 x 200 x 200 mm can be tested.
- Once the concrete specimens clamped, the water under known pressure is applied.
- The water penetrated to the specimen is measured either by taking the reading through the graduated burette or by breaking the specimen.
- Monometer fixed on the front panel is supplied to check water pressure.
- Supplied less with air compressor. Air compressor should be ordered separately at the time of inquiry.

Concrete Water Impermeability Tester (B-245)

TECHNICAL SPECIFICATIONS

- Cubic, prismatic or cylindrical specimens (max. 200 x 200 x 200 mm) can be tested.
- Monometer fixed on the front panel is supplied to check water pressure.

Code	Dimensions (± 1 cm)	Approximate Weight (kg)
B-245	167 x 83 x 202 (h)	215

FERRODETECTOR (B-050/H)

- The ferrodetector is a very simple, easy-to-use bar detector. Used to determine the position of the steel rebar in a wall, column, beam or any other construction section.
- The detection range for ferrous metals is 5-120 mm for rebar larger than Ø8 mm and 5-100 mm for rebar with Ø6 - Ø8 mm.
- The detection range for the non-ferrous metals is 5-80 mm for rebar larger than Ø10 mm.
- The detection accuracy for the rebar is ±10 mm.
- Works on batteries and lasts for around 10 hours. Hence it can be used in the laboratory or insitu.

Ferrodetector (B-050/H)

SUPPLIED WITH

- Carrying Case
- Marker

Code	Dimensions (± 1 cm)	Approximate Weight (kg)
B-050/H	24 x 11 x 47 (h)	0.4 g

TECHNICAL SPECIFICATION:

- Detetion Range:
  - Ferrous Metals: > Ø8 mm (5-120 mm) / Ø6 - 8 mm (5-100 mm)
  - Non-Ferrous Metals: > Ø10 mm (5-80 mm)
- Localization Accuracy: ±10 mm
- Battery Life: 10 hrs
- Operating Temperature: -15 to +50
- Relative Air Humidity: 95%
- Automatic Cut-out: 5 minutes

PROFOSCOPE - PROCEQ (B-050/P)

- A rebar detector with real-time visualization of the rebars beneath the instrument
- Visual indication of rebars in close proximity
- Rebar detector with the ability to identify the mid-point between rebars as well as the orientation of rebars
- Optical and acoustical indication of rebar location and minimum cover alert
- This rebar detector offers neighboring bar correction

Profoscope - PROCEQ (B-050/P)

SUPPLIED WITH

- Carrying Case
- Marker

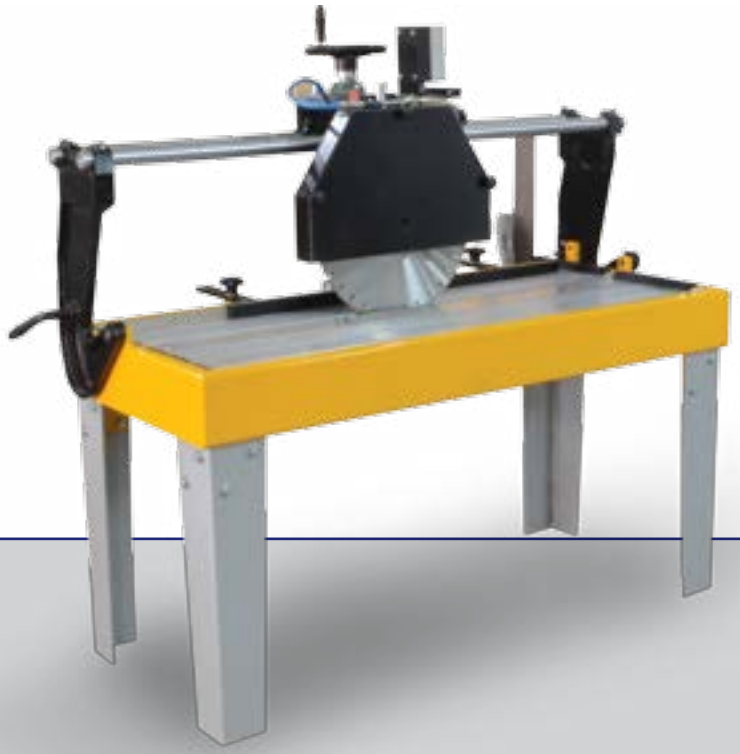
TECHNICAL SPECIFICATION:

- Rebar detector
- Measurement of concrete cover
- Measurement of rebar diameter
- Checking for minimum cover

Code	Dimensions (± 1 cm)	Approximate Weight (kg)
B-050/P	21 x 9 x 4 (h)	0.3 g

UNIVERSAL CUTTING MACHINE (B-062)

- Used to cut construction materials.
  It is equipped with a disc holder for a maximum diameter of 450 mm.
- Ideal for wet cutting.
- Supplied with precision linear guide bar system with dust proof aluminum cover and Automatic thermal overload protection.



SUPPLIED WITH

- Circulation pump for cooling purposes

TECHNICAL SPECIFICATIONS

- Disc diameter: Maximum 450mm.
- Power Supply: 220 - 240 V / 50 or 60 Hz

CUTTING MACHINE (B-063)

- Used to cut rocks, ores, consturction materials ... etc.
- Supplied with a disc holder and a disc having diameter of 350 mm
- Equipped with:
  - Water inlet for wet cutting.
  - Thermal overload protection.

TECHNICAL SPECIFICATIONS

- Disc Diameter: 350 mm
- Water Inlet for Wet Cutting
- Thermal Overload Protection
- Power Supply: 220 - 240 V / 50 or 60 Hz

CORING MACHINE (B-061)

- Used to take core samples from irregular rocks or to extrude the core from specimens for test purposes.
- Equipped with a 2-speed electrical motor and a water inlet (hose).
- Standard 1 ¼" thread
- Core Bits should be ordered separately

Coring Machine (B-061)

Coring Machine (B-061/R)

TECHNICAL SPECIFICATION:

- Electric Motor
- 2-Speed
- Water inlet (Hose)
- Standard 1 ¼" thread
- Power Supply: 220 - 240 V / 50 or 60 Hz

Code	Dimensions (± 1 cm)	Approximate Weight (kg)
B-061	55 x 30 x 121 (h)	35

Code	B-061/4	B-061/6
Core Bit Diameter	4" (≈ 100 mm)	6" (≈ 150 mm)

Core Bits

DIGITAL CONCRETE TEST HAMMER (B-110/D)

ASTM C805 • BS 1881-202

- Used to perform a non-destructive test on concrete structure.
- The hammer gives an immediate indication about the compressive strength of the structural element.
- The compressive strength range that can be read by the equipment is from 10 to 70 N/mm^2.

Digital Concrete Test Hammer (B-110/D)

SUPPLIED WITH

- Carborundum Stone
- Carrying Case

TECHNICAL SPECIFICATIONS

- Compressive strength: 10 - 70 N/mm^2

TESTING ANVIL (B-117)

- Used to verify the calibration for the rebound test hammers for concrete.
- It's made of a very robust stainless steel.
- The rebound value is 80 ± 2.
- Standards recommend the use of the Anvil before any sequence of test using the test hammers. Before and after every sequence of tests, anvil value should be recorded and

Testing Anvil (B-117)

TECHNICAL SPECIFICATIONS

- Used for Test Hammers
- Rebound Value :80 ± 2
- Made of Stainless Steel

Code	Dimensions (± 1 cm)	Approximate Weight (kg)
B-117	Dia: 15 / h: 32	17

CONCRETE TEST HAMMER (B-110)

ASTM C805 • BS 1881-202

- Used to perform a non-destructive test on concrete structure.
- The hammer gives an immediate indication about the compressive strength of the structural element.
- The compressive strength range that can be read by the equipment is from 10 to 70 N/mm^2.

Concrete Test Hammer (B-110)

SUPPLIED WITH

- Carborundum Stone
- Carrying Case

TECHNICAL SPECIFICATIONS

- Compressive Strength :10-70 N /mm^2

Code	Dimensions (± 1 cm)	Approximate Weight (kg)
B-110	35 x 18 x 16 (h)	2

CRACK DETECTION MICROSCOPE (B-250)

- Used to measure the crack width in the concrete elements.
- Supplied with an adjustable light source and adjustable focus to have a better and clearer view for the crack.
- The measuring range for the microscope is 0 to 4 mm. with divisions of 0.2 mm and subdivisions of 0.02 mm.
- The magnification ability of the microscope is x50.
- The microscope is supplied with a wooden case and batteries.

Crack Detection Microscope (B-250)

SUPPLIED WITH

- Wooden case
- Battery

TECHNICAL SPECIFICATIONS

- Integral illumination
- Rotating eyepiece
- Focus adjustment
- Range 0 to 4 mm
- Sub –divisions: 0.02 mm
- Magnification: x50
- Supplied with:
  - Wooden case
  - Battery

ULTRASONIC TESTER (B-048)

ASTM C597 • BS 1881

- Used to determine the place for the cracks, voids or defects in the in-situ or precast concrete elements and for long-term observation for the structure which is subjected to all the environmental conditions.
- The data obtained from the machine gives an indication regarding the homogeneity of the structural element using the sound pulse and by measuring the time needed for the sound to travel within the element.
- Calibration tools are also provided to zero the reading.
- Supplied with:
  - Two piezoelectric probes (55 KHz each) with connection cables
  - Calibrating cylinder
  - Contact paste
  - Carrying case

Ultrasonic Tester (B-048)

TECHNICAL SPECIFICATIONS

- Measuring range : 0 - 3000 µs
- Accuracy : ± 0.1 µs
- 2 outlets for connection to the oscilloscope
- 2 piezoelectric probes 55 KHz
- Calibration facility