

CONCRETE EQUIPMENT

DIGITAL COMPRESSION MACHINE 2.000KN



ASTM C-39

For determining compressive strength of concrete cube 15 x 15 x15 cm or concrete cylinder 15 cm dia. x 30 cn height

Frame	Heavy-duty welded steel construction 30 cm (profile steel columns 8 cm thick bottom and upper plate)
Hydraulic System For 2.000 kN Cap.	Mild Steel cylinder, Hard-chrome piston, 200 mm diameter Maximum working pressure 50.000 kPa Single action, gravity return
Hydraulic Pump	Electric, 220 V AC, 50-60 HZ, 1000 Watt, 1 Phase Single action, variable speed 6.000 ml reservoir capacity Maximum working pressure 50.000 kPa Single action, gravity return
DIGITAL INDICATOR	Digital Indicator 0,1kN increment, Pressure transducer connected with digital indicator Digital readout, 6-bit LED display resolution Reading results in kN, with data holder External rechargeable 6V DC Battery Battery life :80 hours continuous use with 12 hour recharge time.
Compressive Platen	Upper : 180 x 180 mm, ball seating Lower : 250 mm diameter
Clearance	Horizontal: 290 mm Vertikal : 310 mm
Dimension	760 x 320 x 1400 mm (l x w x h) approx.
Weight	500 kg

CONCRETE EQUIPMENT

COMPRESSION MACHINE



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For determining compressive strength of concrete cube 15 x 15 x15 cm or concrete cylinder 15 cm dia. x 30 cn height

Frame	Heavy-duty welded steel construction 30 cm (profile steel columns 10 thick botttom and upper plate)
Hydraulic System For 1500 kN Cap.	Cast iron cylinder, Hard-chromed piston, 230 mm diameter Maximum working pressure 50.000 kPa Overall dimension 280 mm dia. x 320 mm height Single action, gravity return
Hydraulic System For 2000 kN Cap.	Cast iron cylinder, Hard-chromed piston, 230 mm diameter Maximum working pressure 50.000 kPa Overall dimension 300 mm dia. x 320 mm height

		Single action, gravity return
Hydraulic System For 3000 kN Cap.		Cast iron cylinder, Hard-chromed piston, 250 mm diameter Maximum working pressure 50.000 kPa Overall dimension 330 mm dia. x 320 mm height Single action, gravity return
Hydraulic Pump		Electric, 220 V AC, 50-60 HZ, 1000 Watt, 1 Phase Single action, variable speed 6.000 ml reservoir capacity Maximum working pressure 50.000 kPa Single action, gravity return
Force Gauge		Bourdon tube manometer, 280 mm dial diameter With maximum load pointer. Steel box housing. Calibrated by JNK
Compressive Platen		Upper : 180 x 180 mm, ball seating Lower : 250 mm diameter
Clearance		Horizontal: 290 mm Vertikal : 310 mm
Dimension		760 x 320 x 1400 mm (l x w x h) approx.
Weight		500 kg
CO-325.3	Compression Machine	1500 kN capacity, 10 kN increments
CO-325.4	Compression Machine	2000 kN capacity, 10 kN increments
CO-325.5	Compression Machine	3000 kN capacity, 20 kN increments
Alternative model of compression machine :		
CO-XXX.X-D	As specified above, with digital read out	

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COMPRESSION MACHINE



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Hydraulic System For 3000 kN Cap.		Cast iron cylinder, Hard-chromed piston, 250 mm diameter Maximum working pressure 50.000 kPa Overall dimension 330 mm dia. x 320 mm height Single action, gravity return
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CO-325.3	Compression Machine	1500 kN capacity, 10 kN increments
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Alternative model of compression machine :		
CO-XXX.X-D	As specified above, with digital read out	

CONCRETE EQUIPMENT

HYDRAULIC CONCRETE BEAM TESTING MACHINE (CO-330)



ASTM C-78

For determining the flexural strength of concrete beam by using a simple beam with third point loading. 100 kN cap., hidraulic hand pump, manometer reading, sample size 15 x 15 60 cm, welded steel construction

Dimension (l x w x h): 100 x 50 x 100 cm

Gross Weight: 110 kg

CONCRETE EQUIPMENT

MECHANICAL CONCRETE BEAM TESTING MACHINE (CO-351)



ASTM C-78

For determining the flexural strength of concrete beam by using a simple beam with third point loading. 50 kN cap., mechanical jack, proving ring reading, sample size 15 x 15 x 60 cm, welded steel construction.

Dimension (l x w x h): 100 x 40 x 100 cm

Gross Weight: 110 kg

CONCRETE EQUIPMENT

COMPACTING FACTOR APPARATUS (CO-355)



BS-1881

For determining workability of compacting factor concrete of low, medium and high workability. Welded steel frame construction, two conical mold, one cylinder mold.

Dimension (l x w x h): 30 x 60 x 130 cm

Gross Weight: 75 kg

CONCRETE EQUIPMENT

SLUMP TEST SET (CO-370A)



ASTM C-143

AASHTO T-119

For determining slump/workability of concrete both in the laboratory and in the field

Type	Parts Name	Specification	Qty
CO-371	Slump Cone	Heavy gauge sheet steel, 4" top dia., 8" bottom dia., 12" height	1 Pc
CO-375A	Base Plate	Cast aluminium with inspection scale	1 Pc
GE-801	Scoop	Cast aluminium	1 Pc
GE-871	Trowel	Pointed type	1 Pc
GE-920	Brush	Steel wire	1 Pc
GE-930	Tamping Rod	Machine steel, galvanized 16 mm dia., 600 mm length	1 Pc

Dimension (l x w x h): 50 x 50 x 80 cm

Gross Weight: 30 kg

CONCRETE EQUIPMENT

VEBE TIME (CO-380)



BS-1881

This method mechanised variation of the slump test and includes a determination of the workability of concrete

Type	Parts Name	Specification	Qty
CO-381	Vibro Consistometer	Electric, 220 V, 50 Hz, 1 Phase, 200 Watt	1 Set
GE-700	Stop Watch	60 sec.sweep x 30 min	1 Pc
GE-801	Scoop	Cast alumunium	1 Pc
GE-930	Tamping Rod	Machine steel, galvanized 16 mm dia., 600 mm length	1 Pc

Dimension (l x w x h): 40 x 40 x 100 cm

Gross Weight: 25 kg

CONCRETE EQUIPMENT

AIR CONTENT OF FRESH MIXED CONCRETE (CO-400)



ASTM C-231

AASHTO T-152

For determining the air content of freshly mixed concrete from observation of the change in volume of concrete with a change in pressure.

Type	Parts Name	Specification	Qty
CO-401	Air Entrainment Meter	5 ltr capacity, 3" maximum aggregate size, direct reading 0-10%, manometer, hand pump	1 Pc
CO-402	Carryng Case	Wooden box	1 Pc
GE-801	Scoop	Cast alumunium	1 Pc
GE-871	Trowel	Pointed type	1 Pc
GE-891	Straight Edge	40 cm length	1 Pc
GE-900	Rubber Mallet	Rubber head, wooden handle	1 Pc
GE-920	Brush	Steel wire	1 Pc
GE-930	Tamping Rod	Machine steel, galvanized 16 mm dia., 600 mm length	1 Pc

Dimension (l x w x h): 40 x 40 x 100 cm

Gross Weight: 25 kg

CONCRETE EQUIPMENT

VIBRATING TABLE (CO-410)



Steel construction 50 x 50 cm table Separated control box, variable speed up to 3.600 rpm. For compacting aggregate in steel container or concrete sample in cube / cylinder mold.

Dimension (l x w x h): 55 x 55 x 85 cm
Gross Weight: 70 kg

CONCRETE EQUIPMENT

VERTICAL CYLINDER CAPPING SET (CO-470)



ASTM C-617

Equipment for forming caps on ends of 15 cm diameter concrete cylinder to provide uniform loading surface for compression test.

Type	Parts Name	Specification	Qty
CO-471	Vertical Cylinder Capper	Cast aluminium frame, rotating ground table, for 150 mm dia. concrete cylinder	1 Pc
CO-472	Capping Compound Warmer	Approx. 3 ltr cap, heating temperature up to 200°C, 220 V-AC	1 Pc
CO-473	Capping Ladle	Stainless steel ladle, Wooden handle	1 Pc
CO-474	Cylinder Carrier	Double handle, snap clamp, for 150 mm dia., concrete cylinder	1 Pc
CO-475	Capping Compound	Powder, approx. 115°C Pouring temperature	25 kg

Dimension (l x w x h): 100 x 60 x 60 cm

Gross Weight: 35 kg

CONCRETE EQUIPMENT

MODULUS OF ELASTICITY IN CONCRETE TEST SET (CO-500)



For measuring average axial deformation of concrete cylindrical sample during compression test, cast aluminium, dial indicator 0.001 x 5 mm

Dimension (l x w x h): 30 x 30 x 60 cm

Gross Weight: 35 kg

CONCRETE EQUIPMENT

SPLIT TENSILE TEST (CO-525)



BS-1881

For split cylinder test on specimens of 150 x 300 mm (dia. x length) self-supporting lower platen

Dimension (l x w x h): 35 x 20 x 25 cm

Gross Weight: 4 kg

CONCRETE EQUIPMENT

CONCRETE TEST HAMMER (CO-550)



ASTM C-805

For rapid quality control of concrete works, with built in pointer scale and graph for various angle.

Dimension (l x w x h): 15 x 15 x 40 cm

Gross Weight: 2 kg

CONCRETE EQUIPMENT

CALIBRATION ANVIL (CO-555)



ASTM C-805

For periodic calibration of concrete test hammer CO-550, complete with hammer guide

Dimension (l x w x h): 20 x 20 x 30 cm

Gross Weight: 30 kg

CONCRETE EQUIPMENT

LABORATORY CONCRETE MIXER (CO-610)



For mixing trial batches of concrete for mix design. Approx. 70 ltr cap., 4 mixing blades, welded steel frame, 2 wheels for easy movement, electromotor 1/3 HP, 220 V-AC, 1 Phase.

Also required, but not part of this set :

CE-159	Platform Scale
GE-303	Square Pan
GE-405A	Plastic Graduated Cylinder
GE-871	Trowel

CONCRETE EQUIPMENT MOLD

CONCRETE BEAM MOLD



Cast iron, for forming concrete beam sample

Type	Parts Name	Specification
CE-317A	Concrete Beam Mold	15 x 15 x 60 cm
CE-319A	Concrete Beam Mold	20 x 20 x 80 cm

Dimension (l x w x h): 20 x 70 x 20 cm / 25 x 90 x 25 cm

Gross Weight: 40 kg / 60 kg

CONCRETE CYLINDER MOLD



Cast iron, for forming concrete cylinder sample

Type	Parts Name	Specification
CE-300	Concrete Cylinder Mold	10 cm dia x 20 cm height
CE-301	Concrete Cylinder Mold	15 cm dia x 30 cm height

Dimension (l x w x h): 15 x 15 x 25 cm / 20 x 20 x 35 cm

Gross Weight: 12 kg / 17 kg

CONCRETE CUBE MOLD



Cast iron, for forming concrete cube sample

Type	Parts Name	Specification
CE-311	Concrete Cube Mold	10 x 10 x 10 cm
CE-312	Concrete Cube Mold	15 x 15 x 15 cm

Dimension (l x w x h): 20 x 20 x 15 cm / 25 x 25 x 20 cm

Gross Weight: 14 kg / 19 kg

CONCRETE BEAM MOLD



Cast iron, for forming concrete beam sample

Type	Parts Name	Specification
CE-317A	Concrete Beam Mold	15 x 15 x 60 cm
CE-319A	Concrete Beam Mold	20 x 20 x 80 cm

Dimension (l x w x h): 20 x 70 x 20 cm / 25 x 90 x 25 cm

Gross Weight: 40 kg / 60 kg