



COMPACTION FACTOR APPARATUS



Model : OR-CM-075

Specifications:

Material of Construction: Special quality low carbon mild steel.

Paint quality: Powder coating 70-80 micron thick for determination of workability determination of concrete mixes of very low workability such as those normally used with concrete, compacted by vibration. Concrete mix having maximum size or aggregate not exceeding 38 mm, can be tested for workability. Compaction Factor Apparatus is complete with hoppers and receiver assembly, Tamping Rod of 16 mm dia x 60 cm long having a Hooper and two trowels. As per IS- 1199, 55 1 5 & BS 1 88 I - 103

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LECHATelier

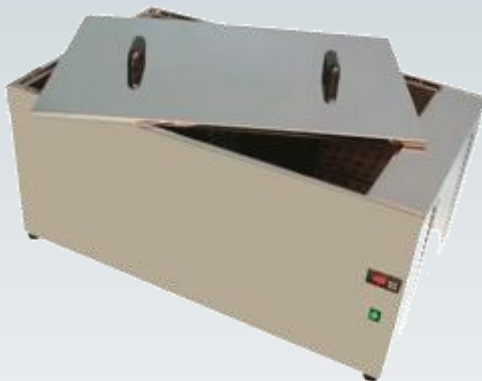


Model : OR-LC-012

Specifications:

Le-Chatelier Flask, determination of specific gravity of hydraulic cement as specified

LE-CHATelier WATER BATH



Model : OR-LCB-096

Specifications:

Le-Chatelier Water Bath with Controller Min. size 12"x9"x12". made of stainless steel, complete with removable rack to hold min. 6

SIEVES



Test Sieve, 18" dia G.I. Frame, size 100, 80, 63, 50, 40, 31.5, 25, 20, 12.5, 10 & 4.75, 2, 1mm & 600, 425, 300, 212, 150, 75 micron with lid & pan

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FLOW TABLE



Model : OR-FT-065

Specifications:

Motorised, Ref IS:- IS: 1 199- 1959. The Flow Table top should be min. 76.2 cm dia, finely machined from a solid brass casting. The stand is of cast iron and is of sturdy construction. Holes for mounting on foundations are drilled in the base plate. Ground and hardened steel cam is designed to drop the table by 12.5 mm with an electric geared motor (One separate Motor Unit complete with a reduction gear) with Min. 100 RPM. The equipment is supplied along with flow mould (The min. base internal diameter is 25 cm, top internal diameter is 17 cm and the height is 12 cm) and tamping rod (made of steel, 16mm in diameter, 60 cm long and rounded at the one end). Suitable for operation with 220 volts, 50 Hz, single phase, AC Supply.

VIBRATION TABLE



Model : OR-VB-76

Specifications:

Vibrating Table, 50 x 50cm for 4 moulds of 150mm cube having Proper compaction of cement concrete while casting specimens for compression testing is essential to achieve higher compressive strength. The table top is suitable to hold cube moulds and has stops along its edges to prevent moulds from sliding off the table during operation. The specially designed vibro motor for operating the vibratory. Suitable for operation on 220 V, 50 Hz, Single Phase, AC supply. Capacity 0.5 to 1 ton, the height of the table from the ground level shall be sufficient to allow for easy placing and removal of the moulds and shall not exceed 0.75 metre. frequency of vibration for the table operating at its maximum load capacity shall be between 3000 to 6000 cycles per minute. IS Code:2514.

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VEE BEE CONSISTO METER



Model : OR-CM-075

Specifications:

Material of construction: Special quality low carbon mild steel with pain quality Vibrator table: Min 380*260. For rubber shock absorbers with AC. Supply motor 415 volts, 3 phase, one metal pot, one slump cone, one swivel arm with metal cone, One graduated rod, One perspex disc, One temping rod as per IS.



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CYLINDRICAL MOULDS



Model : OR-CMO-045

Specifications:

Cast Iron, Split Lengthwise 150mm dia x 300mm high with baseplate and top plate

CUBE MOULDS



Model : OR-CUM-088

Specifications:

Cast Iron, for 150mm Cube with ISI Certification IS:10086
Angle between adjacent interior faces and between interior faces and top and bottom plates of mould-90 $\pm$ 0.5Deg
length of base plate -Min. 280mm Width of base plate -Min. 215mm
Machined flat to $\pm$ 0.02 mm of accuracy and finished to within $\pm$ 0.2 mm of specified dimensions. Approx wt minimum to 14kg

CEMENT MORTAR MOULDS



Specifications

Cement Mortar Mould, Steel, for 70.6mm cube with ISI certification mark, IS:10086, machined with a permissible variation of 0.15mm and finished within tolerances of +0.15mm - 0.10mm

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HARDNESS TESTS (BRINNEL'S AND ROCKWELL)



Model : OR-HBR-0134

Specifications:

- 4 quick load change options 60, 100, (HRA, HRB, HRC) and 187.5 kgf
- Direct reading of Rockwell scales HR - A,B,C.
- Samples size upto 230 mm high & 155mm Throat Rockwell - 10 kgf
- Pre Load /60, 100, 150 kgf
- Brinell - 10 kgf Pre Load / 187.5 kgf.
- Display - Analogue.
- Conforms to IS 1586 – 2000
- Specimen accommodations: Vertical space - 230mm
- Horizontal space (from central line) - 155mm

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DIGITAL COMPRESSION TESTING MACHINE

Specifications:

Digital Compression Testing Machine: Capacity Min: 2000kN with touch screen display with TFT with Min. 800 X 480 Pixel.
Real time display of time Vs Load in Kn/Mpa.
Least count:- Min. 0.1KN,
Maximum Clearance Between Platens:-370mm;
Maximum Distance Between Side Plates:- 340mm; Platen Size:-Min. 222.0 Dia, Piston Dia:-Min. 222.2mm Piston Stroke:-50mm; Hydraulic System: With 15 liters. Control System:- Microprocessor based, pace rate control option must be incorporated through lever. Auto shut down facility. Should consist of paraflex glass fixed safety door on the front and back. Calibration & validation:- machine must be with NCCBM/NABL calibration certificated with traceability certificate. Digital Indicator has provision to configure more than one Mode.

Mode1-Compression/Mode2-

Flexure/Mode3- Prism Testing/Mode4-Tensile Splitting strength. Communication with software support. Machine should supplied with followings:-

- 1) Loading Unit consisting of Loading Frame with Jack, Dust Cover & Upper Platen.
- 2) Pumping Unit
- 3) E.D.I- Touch Screen 4) Spacer with Locating Pin:-4 Nos 5) Step Pin with Ring:- 1 No 6) Flexible Hose Pipe:- 1 No 7) Hydraulic Oil:- 15 Ltrs 8) Lifting Handle for Ram:- 1 No 9) Spanner 24 x 27:- 2Nos .10) Allen Key 3mm:- 1 No 11) Main cable for EDI:- 1No 12) Control motor cable:- 1 No .13) Eye Hook:- 1 No .14) Dust Cover:- 1 No 15) Calibration Certificate- 1 No 16) Operating Manual:- 1 No



Model : OR-SCTM222

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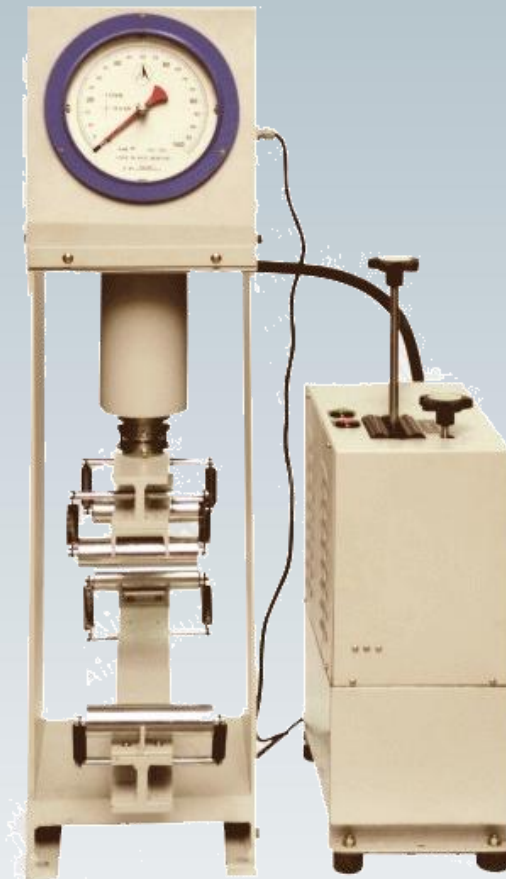
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FLEXURE STRENGTH TESTING MACHINE



Model : OR-FTM222

Specifications:

Flexure Testing Machine Electrically Operated,
Material of Construction: Weight of the Load Frame: Min. 130kg
Hydraulic System: With Min. 15 liters, hydraulic oil feed and fuel pump separately, 0.5 hp, 1 Ph, 220V AC motor driven two-speed hydraulic pump.
Standard confirm to:- Conforms to IS 516 and IS : 14858, Machines conforming to ASTM C39.

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UNIVERSAL AUTOMATIC COMPACTOR



Model : OR-ACA250

Specifications

Universal Automatic Compactor with Mild Steel compaction mould as per IS

Ref Standard IS:2720 (Part 7 & 8)

Motor driven mechanical compactor, useful for soil compaction in 100 mm or 150 mm dia moulds.

Rammer - Circular faced 50mm dia adjustable to 2.6kg or 4.9kg weight.

Drop - Adjustable to 310mm or 450mm.

The equipment is suitable for operation on 220 V, 50 Hz, Single Phase, AC supply.



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CEMENT TENSILE TESTING MACHINE



Model : OR-CET24

Specifications:

Testing Machine: Ref. standard - EN-196-1

Loading speed of the double lever system: 50 +/- 10 N/Sec,

Flexure jaw diameter of the loading roller: 10mm

Supporting roller diameter: min. 10mm

Baffle plate span: 46mm



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BEAM DEFLECTION APPARATUS



Model : OR- DBA125

Specifications:

A mild steel **beam 2.5 cm x 3 mm** in cross section and 100 cm long is pinned to two supports 70 cm apart situated symmetrically. One of the ends can be fixed or given a known slope by applying a known moment at the end with the help of suspended loads. At the other end also a known moment can be applied at various points along the span of the beam.



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REBOUND HAMMER



Specifications

Accuracy Better than ± 2 Rebound Number Testing
Range:- 10 to 13 N/mm², Dimensions- Hammer: Min.
280mm length x 55mm diameter, Impact energy =
2.207Nm

CONCRETE MIXTURE



Model : OR-CM-045

Specifications

Pan type ,min. 40L capacity, Material of Construction: low carbon mild steel, Hardness of platen: SORHC, efficient mixing in dry and wet conditions. Suitable for aggregate size upto 20mm. The drum is driven off the ribbed base. The lid with mixing paddles clears off the top of the drum to provide maximum access to operator. Overall Dimension: 910mm x 875mm x 1250mm, Motor: 2HP, 960rpm, Adjustable blades, Suitable for operation on 440V, 50 Hz, 3 phase, AC Supply



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ULTRA SONIC PULSE VELOCITY INSTRUMENT



Model : OR- DBA125

Specifications:

high performance, microprocessor based instrument that measures velocity , transit time & other parameters.

The Ultrasonic Pulse Velocity instrument should be supplied complete with; Two 54 KHz transducers (Transmitter and Receiver) with 3 m cable, Calibration rod Coupling agent (250 mm).

Standards and Norms: EN12504-4 and IS13311.

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HARDNESS TESTS (BRINNEL'S AND ROCKWELL)

Rockwell cum Brinell hardness Tester:

- AS PER IS: 1586- 2000 for Rockwell test, IS:2281, BS:240
& ASTM-E-1 0 for Brinell test.

PRODUCT DESCRIPTION

Hardness Resolution	1.0 of a Rockwell unit
Display	Analog
Vertical space	230mm
Horizontal space	155mm



Model : OR-HBR230

MODEL	UNIT	OR-HBR230
LAODS	KGF.	60,100,150, 187.5, 250
INITIAL LOAD	KGF.	10
MAX. TEST HIGHT.	MM.	295
DEPTH OF THROAT	MM.	150

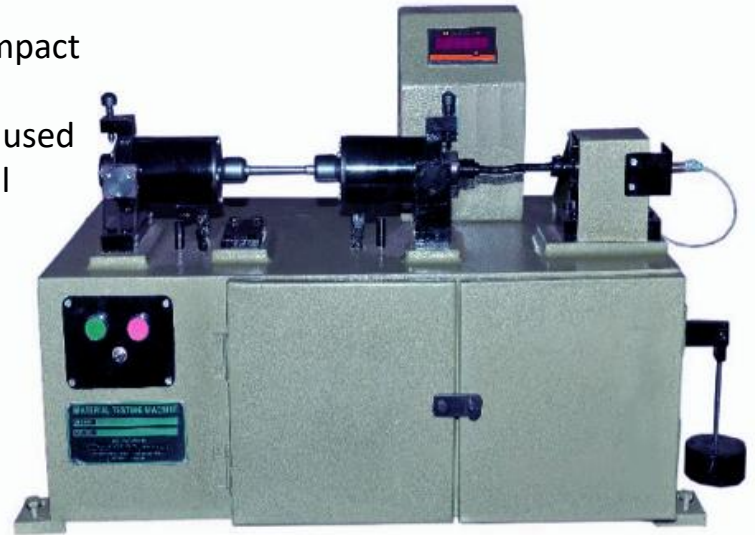
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FATIGUE TESTING MACHINE

Digital Fatigue Testing Machine is light, compact and simple design used to test the fatigue strength of materials and draw S-N diagram used for research institutes, laboratories, material manufacturers



Model : OR- FTM125

SPECIFICATIONS	Unit	Model OR- FTM125
Maximum bending moment	Kg. cm.	200
Bending moment adjustable	Kg. cm.	100, 150 & 200
Ranges I, II	Kg. cm. Kg. cm.	25 – 125 125 – 200
Gripping dia of specimen	mm	12
Testing dia of specimen	mm	8
Rotating speed	rpm	4200
Accuracy of applied bending moment	%	± 1%
Digital counter	8 Digital Microprocessor Digital	
Power required	HP	0.5
Main supply	3 Phase, 0.5hp 440 Volts, 50 Hz, A.C	

IMPACT TESTING MACHINE

Charpy Striker : 1 NO
 Izod Striker : 1 NO
 Combined Charpy/Izod (10X10 specimen) Support Block : 1 NO
 Specimen Setting Gauges (for Charpy and Izod) : 2 NO S
 Set of Spanners : 1 SET



Model : OR- PIMT300

Technical Parameters	Izod	Charpy
Initial Potential energy (Joules)	170	300
Minimum scale graduation for AIT-300-N and AIT-300-EN (Joules)	2	2
Resolution for AIT-300-D (Joules)	0.5	0.5
Pendulum drop angle (Degree)	90	140
Impact velocity (m/sec)	3.994	5.308
Distance between axis of rotation and centre of strike (mm)	813.5	813.5
Effective weight of pendulum (kg)	21.300	21.300
Max. total friction and windage losses (% of initial potential energy)	0.5%	0.5%
Striking edge :		
Angle at tip (Degree)	75	30
Radius of curvature (mm)	0.7	2
Width of tip (mm)	-	18
Horizontal relief (Degree)	10	-
Vertical relief (Degree)	5	-
Test Piece Supports:		
Suitable for specimen (Max) (mm)	10x10	10x10
Distance between supports (mm)		40 (+0.5, -0.0)
Taper of supports (Degree)	-	11±1
Radius of curvature at edge (mm)	-	1 to 1.5

TORSION TESTING MACHINE



Model : OR- FTTM400

TECHNICAL SPECIFICATION

Max. torque capacity (Nm)	100
Torque Resolution (Nm)	0.01
Angle of twist (Degree)	0.1
Torsion speed and irection	1.5 RPM Reverse
Distance between grips (mm)	0 – 400
Grips for round bar of dia (mm)	4 – 8 8 – 1
Grips for flat bars thickness Width	2 – 8 25
3 Ph, 440V, 50 Hz, AC Motor HP Approx	0.5

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UNIVERSAL TESTING MACHINE

Model : OR-UMTA1000



FEATURES

- ✓ Loading Accuracy as high as + 1%
- ✓ Straining at variable speeds to suit a wide range of materials.
- ✓ Continuous roll autographic recorder supplied as standard to enable study of the behavior of materials
- ✓ Motor driven threaded columns for quick effortless adjustment of lower cross-head-to facilitate rapid fixing of test specimen.
- ✓ High reading accuracy due to large size and design of dial.
- ✓ Wide range of standard and special accessories, including load stabilizer.
- ✓ Easy change from plain to threaded and screwed specimens.
- ✓ Large effective clearance between columns enables testing of standards specimens as well as structures.
- ✓ Simple controls for easy of operation.
- ✓ Robust staining frame of an extremely rigid construction.
- ✓ Safe operation ensured be means of safety devices.
- ✓ Fully enclosed and protected pendulum.

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Model : OR-SCTM222

DIGITAL COMPRESSION TESTING MACHINE:

Capacity Min: 2000kN with touch screen display with TFT with Min. 800 X 480 Pixel.

Real time display of time Vs Load in Kn/Mpa.

Least count:- Min. 0.1KN,

Maximum Clearance Between Platens:-370mm;

Maximum Distance Between Side Plates:- 340mm;

Platen Size:-Min. 222.0 Dia,

Piston Dia:-Min. 222.2mm

Piston Stroke:-50mm;

Hydraulic System: With 15 liters.

Control System:- Microprocessor based, pace rate control option, Auto shut down facility. consist of parflex glass fixed safety door on the front and back.

Calibration & validation:- machine with NCCBM/NABL calibration certificated with traceability certificate.

Digital Indicator to configure more than one Mode. Mode1-Compression/Mode2-Flexure/Mode3- Prism Testing/Mode4-Tensile Splitting strength.

Communication with software support.

Machine should supplied with followings:- 1)Loading Unit consisting of Loading Frame with Jack, Dust Cover & Upper Platen. 2) Pumping Unit 3)E.D.I- Touch Screen 4) Spacer with Locating Pin:-4 Nos

5) Step Pin with Ring:- 1 No 6) Flexible Hose Pipe:- 1 No 7)

Hydraulic Oil:- 15 Ltrs 8)

Lifting Handle

for Ram:- 1 No 9) Spanner 24 x 27:- 2Nos .10) Allen Key 3mm:- 1 No11)Main cable for EDI:- 1No 12) Control motor cable:- 1 No .13)Eye Hook:- 1 No .14) DustCover:- 1 No 15) Calibration Certificate- 1 No 16)Operating Manual:- 1 No

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SLUMP CONE TEST APPARATUS



Model : OR-SCA600

The slum test apparatus is used to determine the workability of the fresh concrete. The slum cone is comprised of following things.

- Slum cone.
- Graduated tamping rod for the slump cone.
- Base plate.
- Specification of slum cone.

Material of construction

CRC sheet of 16 gauge

Top dia.	10 cm
Bottom dia.	20 cm
Height	30 cm

Specification of graduated tamping rod

Material of construction M.S. (chrome plated)

Height	600 mm
Dia.	16 mm
Scale making of the tamping rod	Yes

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CONCRETE MIXTURE



Model : OR-CM045

Specifications

Pan type ,min. 40L capacity, Material of Construction: low carbon mild steel, Hardness of platen: SORHC, efficient mixing in dry and wet conditions. Suitable for aggregate size upto20mm. The drum is driven off the ribbed base. The lid with mixing paddles clears off the top of the drum to provide maximum access to operator. Overall Dimension: 910mm x 875mm x1250mm, Motor: 2HP, 960rpm, Adjustable blades, Suitable for operation on 440V, 50 Hz, 3 phase, AC Supply

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SPLIT TENSILE STRENGTH ATTACHMENT



Model : OR-TSA50

Dimensions and Weights (Approximate)

Length : 100 mm(4")

Width : 52 mm (2")

Height : 250 mm (10")

Weight : 1.5 kgs

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