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Civil and Survey Instruments

- Direct Reading Precision Vernier Theodolite Accuracy10Sec.178mm
- Direct Reading Precision Vernier Theodolite Accuracy 20Sec.178mm
- Vernier Transit Theodolite 20Sec.,178mm
- Electronic Digital Theodolite 10Sec.
- Total Station Sokkia Japan
- Automatic Level
- Dumpy Level
- Tilting Level
- Engineers Precision Level
- Quick Set Dumpy Level
- Office Pattern Level
- Highway Level
- Abney Level 125mm
- Abney Level 225mm
- Ghat Tracer Cylonc Type
- Cocks Reversible level
- Telescopic Alidade 7"
- Telescopic Stand
- Leveling Staff Aluminum 3 meter
- Leveling Staff Aluminum 4 meter
- Leveling Staves Aluminum 4 meter
- Leveling Staves Aluminum 5 meter
- Leveling Staves Aluminum 6 meter
- Leveling staff Telescopic 4meter long
- Leveling staff Telescopic 5meter long
- Leveling staff Telescopic 6meter long
- Metallic Stand For leveling Staff
- Prismatic Compass 4" with Stand
- Prismatic Compass 4" with Stand
- Prismatic Compass 5" with Stand
- Prismatic Compass 6" with Stand
- Survey Compass 100mm dia
- Plane Table 750mmX 600mm
- Plane Table with Johnson Head Pattern
- Techometric Plane Table
- Magnetic Compass125mm
- Magnetic Compass150mm
- Spirit Level 150mm
- Plum Bob
- Chain 30 Meter
- Chain 20 Meter
- Ranging Rod 2 Meter
- Ranging Rod 3 Meter
- Ranging Rod 4 Meter
- Offset Rod 2 Meter
- Offset Rod 3 Meter
- Stop Watch Digital
- Survey Umbrella
- Cross staff Head
- Optical Square Brass
- Optical Square Brass
- Optical Square Circular Type
- Prism Square Brass
- Tapes Metallic Freemans 5 Meter
- Tapes Metallic Freemans 10 Meter
- Tapes Metallic Freemans 20 Meter
- Line Ranger
- Clinometer
- Planimeter
- Drawing Board 23" x 32"
- Drawing Board 30" x 42"
- Pantograph
- Gunter Chain
- Arrow

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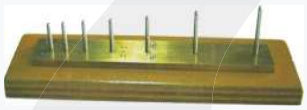
Civil Lab Instruments

Thickness Guage (90000124)

It Consists of a frame with a sliding panel. The panel slots of different standard length and widths accurately cut.

Thick Guage



Length Gauge

Length Gauge (90000125)

Consists of a hard wood base with vertically mounted metal.

Cylindrical Measures (90000126)

Calibrated cylindrical measures of sheet iron with handles. Consists of 3 measures one each 3 liters capacity, 15 liters capacity and 30 liters capacity. Complete with one tamping rod, round, 16mm dia. and 600mm long, one end rounded.

Cylindrical Measures

Metal Measures (90000127)

Made from sheet iron, complete with handle, capacity 10litres or 20litres.

90000127 A:- Metal Measure 10 LTR

Density Basket (90000128)

Made of brass with stainless steel wire mesh 2.36mm size ruggedly constructed. Approximately 20cm dia. x 20cm. high. Complete with handle.

Density Basket

Riffle Sample Divider (90000129)

It consists of a sheet metal box mounted on legs and fitted with a series of chutes of equal width which discharge the material alternatively in opposite directions into separate pans. The chutes of the riffle are steep enough to allow rapid flowing of the material.

Civil Lab Instruments

Aggregate Crushing Value Apparatus (90000130)

Consists of M.S. Cylindrical container 150mm + 0.5mm dia. x 130mm to 140mm high with base plate 200 to 230 mm/sqr x 6mm thick. A plunger of 148mm + 0.55mm dia. x 100 to 115mm high. Supplied complete with tramping rod, 16mm dia x 600mm long, one end rounded. And 1 No. metal measure 115 + 0.55mm dia. x 180 0.5mm high.

Aggregate Crushing Value Apparatus

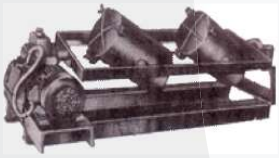
Aggregate Impact Tester

Aggregate Impact Tester (90000131)

The instrument consists of a circular base with two vertical guides. The hammer of weight 13.75 + 0.25kg can be raised to fall freely down the vertical guides. The height of fall can be adjusted through 380+ 5mm. The hammer is provided with a locking arrangement. The hammer falls freely to the base and is removable for emptying. Supplied complete with metal measures 75mm dia. x 50mm high (for specimen preparation) and tamping rod 230mm long x 10mm dia.

Specific Gravity And Water Absorption Of Aggregates (90000132)

The outfit comprises of- 1No. Semi-self indicating balance, capacity 15 kg, accuracy 0.5gm, provision is made in this balance to suspend density basket under material pan. This balance is mounted on an angle iron frame stand. 1 No. Density Basket 1 No. Air tight container of capacity similar to that of density basket 1 No. Water tight container to suspend density basket.



Deval Attrition Tester

Deval Attrition Tester (90000133)

It consists of two hollow cylinders closed at one end and provided with tight fitting covers at the either end. These cylinders are mounted on a shaft at an angle of 30 degree with the axis of rotation of the shaft. The shaft rotates at 30-33 rpm through a reduction gear operated by a motor and is provided with a revolution counter. Complete with abrasive charges consisting of 12 Nos. Hardened steel balls of 48mm. dia. Suitable for operation on 440Volts, 3 Phase, 50 cycles. A.C. Supply.

Dorry Abrasion Testing Machine (90000134)

It consists of a disc rotating about a shaft connected to a reeducation gear box coupied to a motor. The disc rotates at 20-30 rpm. Under the rotating disc is a tray with an outlet to facilitate the removal of sand. Two conical hoppers are mounted on a bracket fixed to the circular tray. An arrangement is made for start and stop the flow of sand. Two holes are provided for mounting two specimens simultaneously. Two containers with weights are supplied to keep the specimens pressed against the rotating disc. Suitable for operation on 220Volts, 50 cycles, A.C. Supply.

Dorry Abrasion Testing Machine

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Civil Lab Instruments

Pull Mill For Grinding Lime Mortar (90000135)

It is of weided steel construction, having an in internal diameter of 12 inch x 13.5 inch long (volume 1 cu.ft.) and is made of 5/16 inch thick steel plate. The drum is supported on heavy duty ball bearings on the two ends. It has an opening of inch width along the full length of drum. An air and water tight cover is provided to close the opening after the specimen has been put inside the drum. The speed of rotation is 28- 30rpm. The pug mill has an arrangement for being held in any position. A revolution counter for recording the revolutions of the mill is fixed on the machine. Twelve ¾ inch dia. steel balls are also supplied with the unit. It is fitted with a ½ H.P. electric motor to operate on single phase, 220/230 volts A.C. Supply.

Los Angles Abrasion Testing Machine

Los Angles Abrasion Testing Machine (90000136)

The machine consists of a hollow cylinder mounted horizontally on a study frame on ball bearings. There is an opening which can be closed with a dust tight cover to facilitate charging and discharging the drum with the material under test. A detachable shelf which extends throughout the inside length of the drum which catches the abrasive charge and does not allow it to fall on the cover. The drum is rotated by an electric motor through a heavy reduction gear at a speed of 30- 33 rpm. A revolution counter is fitted to the frame. A tray is supplied for collection of the material at the end of the test. Complete with abrasive charges consisting of a set of twelve hardened steel balls, approximately 48mm dia. Suitable for operation on 440volts, 3 phase, 50 cycles, A.C. Supply.

Ring And Ball Apparatus (90000137)

The apparatus consists of steel bracket with a sliding plate support. That support has two holes of 10mm dia. on which a Ring and Ball guide can be kept. A central Hole on this plate is for inserting thermometer. Supplied with a glass beaker approximate 8.5cm I.D., 12cm high 9.5mm dia. steel balls.

Ring And Ball Apparatus

Ring And Ball Apparatus (Elcetrical)

Ring And Ball Apparatus (Electrical) (90000138)

Electrical Stirrer with stand and blades to gently stir water in the beaker. Suitable for operation on 230 V A.C.

Civil Lab Instruments

Standard Penetrometer (90000139)

It consists of a vertical pillar mounted on a base provided with leveling screws. The head, together with dial plunger rod and cone (or needle) slides on a pillar and can be clamped at any desired height. A rack and pinion and pointer assemble provides fine adjustment of needle or cone tip to sample. It incorporates a clutch mechanism which makes reading of penetration and subsequent resetting a simple and accurate operation. The dial is graduated in 400 1/10 and the millimeter subdivisions and the needle pointer against figures makes easy reading. Supplied with a bitumen penetration needle, ring weight one each 50gms and two sample containers. Accessories: Penetration cone for empirical estimation of penetration of lubricating grease, petroleum jelly etc.

Standard Penetrometer Electrical With Digital Counter (90000139 A)

Standard Penetrometer

Ductility Testing Apparatus

Ductility Testing Apparatus (90000140)

The apparatus consists of a Water bath with a thermostatic heater, and a circulating pump to maintain uniform water temperature. One half of the briquette moulds in fixed on a fixed plate in the water bath, the other half of the briquette mould is fixed to a carrier which slides over a rotating threaded shaft with a clutch. The motor and gears to rotate the shaft are housed in a cabinet fixed above the other and of the bath. A pointer fixed to the carrier moves over a scale graduated from 0-110 cm x 1mm fixed on the bath with "0"(Zero) of the scale towards the fixed plate slide. The rotating shaft has 2 speeds of travel for the bracket, 5cm/min. and 1cm/min. selected by a clutch. Water bath inside is aluminum, it is an insulated water bath. Water bath is provided with a drain. A heater with thermostatic control is fixed inside the water bath. Control switches for motor, stirrer, heater and indicator lamps are fixed at a convenient place on the water bath. Complete with three briquette mould and one base plate, all made of brass. Operates on 230Volts A.C. single phase.

Stripping Value Apparatus (90000141)

For determining Stripping Value of bituminous mixes having aggregate size 1.0mm to 75 microns. Specifications: A circular tray rotates in a vertical plane at a rate of approximately 100 rpm by an electrical 0 geared motor1 4 bottles of approximately 400cc are mounted on this circular tray at an angle of 90 to each other with their mouth towards centre of the tray. A time switch is provided. Suitable for operation on 230Volts A.C. Single phase.

Benkleman Beam

Benkleman Beam (90000142)

This device was developed by U.S. Bureau of Public roads and is used to measure deflections of flexible pavements. The light weigh instrument is supplied in two path for assembling on site with easy hand tools. In use one end of the beam rests at a point under investigation while the beam is pivoted at the centre. The free and carries a dial gauge to record the deflections. The other end is kept on a stable platform. The beam ratio is 2:1 which magnifies even small deflections. Supplied with a dial gauge 0.01 to 25mm. This is a lift weight dismantle able instrument and easy carry.

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Civil Lab Instruments

Centrifuge Extractor (Hand Operated) (90000143)

This instrument is used for determination and checking of bitumen percentage in bituminous mix, the mix is added with a solvent and dissolved bitumen is removed by centrifugal action. It consists of a removable aluminum rotor bowl, capacity 1500gms, with a cap and tightening nut. The bowl assembly is mounted on a vertical shaft which produces from a cast housing. This shaft and the bowl is rotated fast manually by enclosed gear in the cast body and handle. Solvent is introduced during the test through the holes in the cap of the housing. A drain is provided to collect dissolved bitumen coming out of the rotating bowl and getting collected in the

Centrifuge Extractor (Hand Operated)

Centrifuge Extractor (Motorized) (90000144)

Same as above but shaft is rotated by an electric motor and gear. Care is taken on prevent solvent entering into the rotor of electrical motor. Operates on 230Volts A.C. single phase.

Marshall Stability Test Apparatus (90000145)

1) A loading unit motorized, capacity 5000kgf with two telescopic pillars and adjustable cross head. Limit switches are fitted inside to control upward or downward movement of the pillars. On-off reversing switch and indicator lamps are on the front side while a hand wheel to manually move the pillars is on the right. The load frame has fixed speed of 5.08cm, per minute. Operated on 230 Volts A.C.
2) 1 Nos. Compaction pedal with specimen mould holder.
3) 1 Nos. Compaction Rammers, 4.5kg weight and free fall 45.7cm.
4) 1 Nos. Breaking head assembly with provision to fix flow meter.
5) 1 Nos. Specimen mould 10.16 cm I.D. x 7.6 cm high with base plate and extension collar.
6) 1Nos. Kit for specimen extraction, consists of one each load transfer bar, steel ball, specimen extracting plate.

Accessories: (A) Integral type proving Ring capacity 3000Kgs. (B) A dial gauge 0.01 x 25mm.

Marshall Stability Test Apparatus

Automatic Bituminous Compactor (90000146)

Powered by a ½ Hp motor, the new Automatic Bituminous Compactor is avaiLable for 220 volts, 50Hz, AC operation. The compactor is supplied with the standard base pedestal which consists of a 300mm x 300mm x 25mm thick steel plate mounted on an 20mm x 200mm oak block as required by the ASTM specifications:

Automatic Bituminous Compactor

Civil Lab Instruments

Bituminous/Asphalt Mixer (90000147)

This mixers are suitable for mechanical mixing of hot-mix bituminous mixtures. It is designed according to the description in specification of the Stage of California Test Method 304B. And or uniform mixing of Bituminous and Asphalt mixing. The stainless Steel mixing bowl has the capacity of 5 liters. The pedal, also of a stainless Steel, can have both planetary and revolving motion for uniform mixing. In operation the paddle is rotated at two speeds I.e, low and high rpm to agitate and mix the mixture vigorously with the aid of the spring steel baffles also inserted in the bowl. Furnished with an electric heating arrangement for maintaining the temperature during the mixing period. Operated on 220 volts, 50Hz., Single phase AC supply.

Bituminous/Asphalt Mixer

Core Cutting/Core Drilling Machine (Motorized) (90000148)

Fillted with 5 H.P Diesel Greeves Engine with 100mm Bit & Barrel

Rock/Concrete Cutting Machine Electrically Operated With Cooling System (90000149)

Rock/Concrete/Masonry, saw cutting machine can be used to cut Rock Cores. Concrete Cores, Stones, Building materials and metallic specimens. A smooth finish cut can be made with the machine in either wet or dry operation according to the nature of specimen (Cutters are at extra cost) The specimen cutting machine is designed to cut upto 200mm (specify the size of deep cut required in the specimen) deep cut in the Concrete, Stones, Tiles, Soft rocks and hand rocks or any other similar material. Specimen cutting machine is supplied complete fitted on a steel table, vice is fitted to hold the specimen. A guard is provided for the Diamond cutting wheel. The machine is operated by an enclosed type of fan cooled motor through the geared head drive. The speed of the cutting wheel is approximate 2100 to 2200 rpm or in accordance with the revolution specified on the particular cutting wheel. The machine is fitted with water supply pump for cooling the specimen and cutter during cutting operation. The machine is suitable for operation on 440 Volts A.C, mains, 3 phase. In the machine arrangement is provided to move the sample, fitted on vice, lengthwise and breadth wise.

Asphalt & Concrete Floorsaw

Asphalt & Concrete Floorsaw (90000150)

Drive by Diesel of PetroVIGtros.en Engine. Diamond wheel of 300mm dia.,suitable bra cutof depthupto 100mm bG-uppiltdwlth:.tandardoutfil The trolley on whioh the engine lifitted boh111 o1 w.t tt:r 1hank which supplies a s.tfeamos water b Keep the cutting blade cooldurlng tht OPI tion, Adjustment b oontroldepth of cut i!.also provided.A wfetv Guard 11provide Oll'er the diamond wheel. Diamond wheeI. Diamord wheebupb600mm dil,canbe s.upplied atextra oos.t.

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Civil Lab Instruments

Cement Sampler (90000151)

Enlarged approx 2500 times, showing structure with separate modulated nerve fibre as seen under electron microscope, on board, with key card.

Cement Sampler

Blaine's Air Permeability Apparatus

Blaine's Air Permeability Apparatus (90000152)

The apparatus is used for determining the fineness of cement in terms of specific surface expressed as total surface area in squarecentimeters per gram of cement. This is a variable flow type air Permeameter. Specifications: The apparatus consists one each ofpermeability cell 12.5cm I.D., Manometer 'U' type mounted on stand with a built in a stop cock, Perforated disc, Plunger Rubber stopper,Rubber tube 30cm long. Spares and accessories: Packet of 12 filter paper discs. Non-perforated disc. Suction bulb.

Lea And Nurse Air Permeability Apparatus (90000153)

The complete equipment comprises of one Air permeability Cell Lea and Nurse type for areas 500 to 10000sq.cm/gm. Complete with perforated plate one capillary tube, one plunger for compaction of sample and a wooden case. Accessories: Air source, Comprising one Pressure chamber fitted with a valve, regulator, connecting tube, a foot pump and two drying towers. Manometer liquid in 500 ml bottles.

Lea And Nurse Air Permeability Apparatus

Air Permeability Apparatus (Rigden Type) (90000154)

Comprises one air permeability cell for range 500 to 10000sq.cm/gm. The cell is complete with a perforated disc and a compacting plunger.The instrument is supplied with 'U' Tube manometer having an isolation tap assembly and a suction bulb., This apparatus is mounted ina wooden cabinet.

Vicat Needle Apparatus With Dashpo (90000155)

This instrument is used for determining the normal consistency and setting times of cement and 'A' Class limes. Specification: The apparatus consists of a metallic frame bearing a freely movable rod with a cap at top, one vicat mould, splittype and glass base plate and one set of needles one each initial needle, final needle and consistency plunger.

Vicat Needle Apparatus With Dashpot

Civil Lab Instruments

Le Chatelier Mould (90000156)

Accessories: Mild steel base plate 5inches x 5inches. Fulcrum mould, brass, 70mm 1.0 base die x 60mm I.D. top dia, 40mm height.

Le Chatelier Mould

Ring Mould (90000157)

Consists of mould 10cm. dia x 0.5cm. deep and a glass base plate

Le Chatelier Flask (90000158)

Used for finding specific gravity of Hydraulic Cement. Made from Borosil glass. The flask is 243mm in total height, having a bulb of 90mm dia of 250ml approsimate capacity. The long neck of the flask has at top a funnel of 50mm dia in which fits a ground glass stopper. The neck hasover-all 11mm I.D. upper portion is graduated from 18ml to 24 ml with. 1ml graduation just at the bottom of the neck 1 ml capacity is marked in between there is 17ml capacity bulb.

Gillmore Needle Apparatus

Gillmore Needle Apparatus (90000159)

Drive by Diesel of PetroVIGtros.en Engine. Diamond wheel of 300mm dia.,suitable bra cutof depthupto 100mm bG-uppiltdwlth:.tandardoutfil The trolley on whioh the engine lifitted. bo h111 o1 w.t tt:r 1hank which supplies a s.tfeamos water b Keep the cutting blade cooldurlng tht OPI tion,Adjustment b oontroldepth of cut i!.also provided.A wfetv Guard 11provide Oll'er the diamond wheel. Diamond wheeI. Diamord wheebupb600mm dil,canbe s.upplied atextra oos.t.

Kelly Ball Penetration Apparatus (90000160)

Used for finding specific gravity of Hydraulic Cement. Made from Borosil glass. The flask is 243mm in total height, having a bulb of 90mm dia of 250ml approsimate capacity. The long neck of the flask has at top a funnel of 50mm dia in which fits a ground glass stopper. The neck hasover-all 11mm I.D. upper portion is graduated from 18ml to 24 ml with. 1ml graduation just at the bottom of the neck 1 ml capacity is marked in between there is 17ml capacity bulb.

Kelly Ball Penetration Apparatus

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Civil Lab Instruments

Southard Viscometer (90000161)

Lime putty consistency can be adjusted using this instrument. A 50mm. I.D. metal cylinder is mounted on a wooden platform. A close fitting piston moces up and down without turning in this cylinder. Working stock is 65mm. A metal bridge is provided to measure degree to which ejected cylinder of putty has slumped. Supplied complete with lime putty density vessel.

Ve Bee Consistometer

Ve Bee Consistometer (90000162)

the equipment consists of: A vibration Table size 380mm long and 260mm wide, resting upon elastic support at a heightof about 305mm above the floor, complete with start/stop Switch, Cord and Plug. A holder is fixed to the base into which a swivel arm istelescoped with funnel and guide sleeve. The swivel arm is also detachable from the vibrating Table. A graduated rod is fixed on a swivelarm and at its end a plastic disc is screwed. The divisions of scale on the rod record the slump of the concrete in millimeters. Suppliedcomplete with a sheet metal container with lifting handles which can easily be fixed to the vibrating Table. A slump cone open at both endswith lifting handles and a Tamping rod of size 16mm dia and 600

Slump Test Apparatus (90000163)

The Apparatus consists of one slump cone with handles and foot pieces. The Slump cone has internaldimensions 20cm. dia. At base 10cm. top dia. And 30cm. height. Foot pieces can be fixed to the clamps on the base plate.The base plate has lifting handle for easy transportation. One graduated steel rod 16mm dia. x 600mm long, rounded at one end and graduated in mm, is also supplied.

Slump Test Apparatus

Air Etrainment Meter

Air Entrainment Meter (90000164)

The apparatus consists of a pressure tight flanged cylindrical measuring bowl of 0.005 cubic meter capacity of maximum size of aggregate 38mm. The bowl is fitted with a removable flanged conical cover assembly with thehelp of a seal. The conical cover has an air valve and a pet cock for bleeding of the water. A transparent cylindrical stand pipewhich is graduated in air content is fixed to be conical cover assembly. Pressure is applied to the specimen with the help ofa pressure bulb and the pressure is recorded on the pressure gauge which in mounted on the stand pipe. The whole assembly ismounted on a flat base. The instrument is supplied complete with one each following accessories. Calibration cylinder with spring, Trowel, Tamping Rod, Straight edge, Rubber mallet and measure.

Civil Lab Instruments

Compaction Factor Apparatus

Compaction Factor Apparatus (90000166)

It consists of two rigid conical hoppers and a cylinder mounted on a rigid metal frame. The lower openings of the hoppers are fitted with hinged trap- doors having quick release catches. A circular meter plate is provided to cover the top of the cylinder. Supplied complete with one plaster's trowel and one tamping rod, 16mm dia. x 600mm long, one end rounded.

Flow Table (90000167)

The Flow table consists of a 30cm. dia. ground and polished steel plate with three inscribed annular circles.7, 11 and 19cm. dia. The table top is arranged for a free fall of 12.5mm by a cam action. Supplied complete with one brasconical mould, 65mm I.D. at base and 40mm I.D. at top, height of the mould 90mm.

Flow Table:- Electrical (90000167 A)

Mortar Mixer

Mortar Mixer (90000171)

The apparatus consists of an epicyclic type stainless steel paddle imparting both planetary and revolving motion, by means of gears. It has two speeds of 140+5 r.p.m and 285+10 r.p.m with planetary motions of approximately 62 r.p.m and 125 r.p.m.+ 10 r.p.m. respectively. The stand of the mixer has arrangement to raise for lower the bowl. Complete with stainless steel bowl of about six liters capacity. Suitable for operation on 230 volts, 50 cycles, single phase, A.C. Supply.

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Civil Lab Instruments

Laboratory Concrete Mixer (Motorized)

Laboratory Concrete Mixer (Motorized) (90000172)

Concrete mixer Laboratory type, electrically operated. Designed to remove the burden some work of hand mixing. Uniform thoroughly mixed batches can be produced. The counter balanced drum is easy to tilt 1.1/2 to 2cu.ft.mix. The total drumvolume is however 3cu.ft. Mounted on a sturdy rubber tyred stand, and the drum is mounted for end discharge and equippedwith end towing pole. Equipped with 1/2h.p. electric motor. Suitable for operation on 220/230 volts A.C. Single phase.

Laboratory Concrete Mixer (Hand Operated) (90000173)

This is a hand Operated Concrete Mixer and is suitable to mix 1 cuf to 1.1/2 cft material.
It is mounted on two rubber tired / stand.

Laboratory Cement Autoclave With Stainless Steel Chamber

Laboratory Cement Autoclave With Stainless Steel Chamber (90000174)

Concrete mixer Laboratory type, electrically operated. Designed to remove the burden some work of hand mixing. Uniform thoroughly mixed batches can be produced. The counter balanced drum is easy to tilt 1.1/2 to 2cu.ft.mix. The total drumvolume is however 3cu.ft. Mounted on a sturdy rubber tyred stand, and the drum is mounted for end discharge and equippedwith end towing pole. Equipped with 1/2h.p. electric motor. Suitable for operation on 220/230 volts A.C. Single phase.

Shrinkage Bar Mould (90000175)

The mould, which has 25mm x 25mmx 250mm. effective gauge length is made of mild steel and has accurately machined faces. The parts of the moulds are tight fitting and firmly held together when assembled. Supplied complete with base

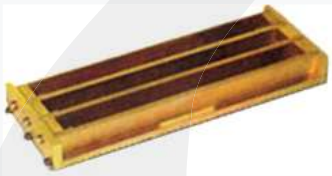
Shrinkage Bar Mould

Civil Lab Instruments

Shrinkage Bar Mould (Two Gang)(90000176)

Do as above but with two compartments assembled on a angle base plate

Shrinkage Bar Mould (two Gang)



Shrinkage Bar Mould (Three Gang)

Shrinkage Bar Mould (Three Gang) (90000177)

Do as above but three compartments.

Shrinkage Bar Mould (Four Gang) (90000178)

Stainless steel smooth or knurled and threaded reference pins as required. Supplied in packs of one dozen.

Shrinkage Bar Mould (Four Gang)

Standard Spatula

Standard Spatula (90000179)

The apparatus comprises of onemould 100mm x 100mm x 250mm, effective gauge length complete with base plate, Four reference pins, One length comparator frame, One stainless steel reference bar with insulated grip, and one dial gauge, 0.02mm x 10mm.

Gauging Trowel (90000180)

Weight approximately 210gm. Best quality with hardwood handle Blade length approx. 200mm.

Gauging Trowel

Trowel (90000181)

100 to 150mm long steel blade with straight edges

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Demountable Mechanical Strain Gauge (90000182)

This portable gauge is designed for a gauge length of 20c.m of the reference pins. The deformation isindicated by a 0.002 x 10mm dial gauge attached to the instruments. Complete with two standard bars for 20cm gauge lengthsupplied in a wooden case. Accessories: Reference pins in packet of 100 Nos.

Demountable Mechanical Strain Gauge

Lateral Extensometer (90000183)

Lateral Extensometer

The unit consists of two movable frames pivoted at one end. The extensometer is fixed to the specimen with the help of tightening screws. The lateral extension is indicated on a dial gauge of .002mm x 12mm travel. The extension is magnified 2.5 times and the dial gauge readings are to be divided by 2.5 to get the exact read-ings. A spacer strip is provided to initially set the dial gauge, and can be removed after initial setting. Supplied in a wooden carrying case.

Longitudinal Compressomete (90000184)

Consists of a frame with a bottom ring and a top ring with tighteningscrews to firmly clamp the compressometer over the cylinder. A dial gauge .002mm x 12mm is mounted on the upper ring andthe tip of the dial gauge rests on an anvil. The zero of the dial gauge can be set by adjusting the anvil screw. Supplied ina wooden carrying case.

Longitudinal Compressometer

Length Comparator (90000185)

Length Comparator

The instrument consists ofa chanelled base over which two vertical pillars are fixed. An adjustable cross plate is at the top. A dial guage, reading to.002mm x 12 mm. can be fixed to the top cross plate. The plunger end of the dial gauge can be located upon a 6.5mm. dia. ball orother reference cemented in the specimen. On the base there is a similar recessed seating in which can be placed a second ball or reference point in the specimen. Complete with a stainless steel standardization bar with insulated grip and with 6.5mm dia. balls mounted in the ends. The unit can be supplied with a .0001inch x 1/2inch dial gauge at extra cost if indicated at the time of placing the order.

Volume Change Apparatus (90000186)

The apparatus comprises of onemould 100mm x 100mm x 250mm, effective gauge length complete with base plate, Four reference pins, One length comparator frame, One stainless steel reference bar with insulated grip, and one dial gauge, 0.02mm x 10mm.

Volume Change Apparatus

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Sand Absorption Cone And Tamper (90000187)

The Equipments comprises of a conical metal mould 1.5inch dai. at the top, 3.5 inch dia. at the base and 2.7/8 inchin height. A metal tamping rod weighing 12 ounces and having a flat circular tamping face 1 inch in diameter.

Sand Absorption Cone And Tamper

Jolting Apparatus

Jolting Apparatus (90000188)

The jolting apparatus consists of a rectangular table rigidly connected by two support arms to a spindle at a horizontal distance of 800mm from the center of the table. There is a projecting lug with a plane face on the ower face of the table beneath which is a stop with a rounded upper surface. The table can be raised and allowed to fall freely on the stop by a cam which is connected to a motor and gear box through a V-beltand pulleys. The cam rotates at a rate of 60 rev./min. A stroke counter fitted with micro-switch is provided which stop the machine after 60 jolts. Locating pins are provided formounting the mould compartments on the table. The mould surmounted by the hopper can be clamped rigidly to the table. Supplied complete with mould and hopper. Suitable for operation on 230 Volts, single phase, A.C. supply. Spares.

Accessories: (1) Steel mould with base platehaving three compartments each having (2) Apparatus for demoulding the specimen.

Flexure Testing Machine (90000189)

It is a motorized, mechanical unit. The speed is adjusted so that the load increase on the specimen is between4 to 6kg/sec. A flexure test attachment for keeping the specimen in position is also supplied. This consists of two rollers 10mm. diameter and spaced 100mm apart, and a third roller of the same diameter equidistant from 10mm. diameter and spaced 100mmapart, and a third roller of the same diameter equidistant from the first two and for transmitting the applied load to the oppositeface of the prism.

Flexure Testing Machine Motorized Rilemcembureu Test Electrical (90000189 A)

Flexure Testing Machine
Motorized RilemCembureau Test Electrical

Tamping Rod

Tamping Rod (90000190)

This is used for compacting concrete into cube moulds. This rod is made of steel. It is 16mm diameter, 60mm in length and rounded or bullet shaped at one end.

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Cube Moulds, Cylindrical Moulds And Beam Moulds (90000191)

These are avaiLable in different sized and made according to Indian and British Standarsa. For the metric size cube moulds, the faces are machined flat to +/-0.02mm accuracy and finished to within 0.2mm. For the inch size moulds, the faces are machined flat to +/-0.01 inches and finished to within 0.01 in. All moulds are supplied complete with base plate

90000191A : 150 x 150 x 150 mm
90000191B : 100 x 100 x 100 mm
90000191C : 50 x 50 x 50 mm
90000191D : 70.6 x 70.6 x 70.6 mm

Cube Moulds, Cylindrical Moulds And Beam Moulds

Cylindrical Moulds

Cylindrical Moulds (90000192)

The moulds is split vertically into two parts. The mean internal diameter is within + 0.2mm and height is within + 1mm. The ends are machined to + 0.05. The base plate and top plate are machined flat to + 0.03 mm.

90000192A: - 150 x 300 mm
90000192B : - 100 x 200 mm

Beam Moulds (90000193)

Made of cast iron. The moulds are made of 4 plates assembled together. Each moulds is supplied complete with base plate. Faces are machined flat to +0.2mm. and finished in size to 0.2mm.

90000193A : 150 x 150 x 700 mm
90000193B : 100 x 100 x 500 mm

Beam Moulds

Vibrating Table

Vibrating Table (90000194)

It is designed to carry a load of 140Kg. The apparatus consists of a motor fitted with a variable pitch pulley housed in a cabinet. The vibrations are imparted by means of off-balance masses rotating on a shaft of a vibrator clamped to the underside of the table top. The table top is 50cm x 50cm. and has stops along its edges to prevent moulds from walking off the table during vibration. A cross arm adjustable on a vertical rod at the center of the table is provided to hold the moulds while operating the table. The variable pitch pulley arrangement permits the frequency to be varied sleeplessly between a maximum of 3600 vibrations down to 2600 vibrations per minute. A speed regulation handle is provided for increasing or decreasing the frequency. A switch is provided for starting the motor suitable for operation on 1440 volts, 3 phase, 50 cycles, A.C. supply.

90000194A: - 20" x 20"
90000194B : - 26" x 26"

Civil Lab Instruments

Vibrating Machine (90000195)

Vibrating Machine

The machine consists of a vibrating frame assembly and an electric motor mounted on a sturdy base. The complete frame assembly consists of a vice to hold a 7.06cm cube mould and two studs threaded at top and a hopper to feed the sample in the mould. This assembly is supported on four springs and has an in built rotating shaft which rotates eccentrically and thus imparts vibrations to the entire frame. A balance weight is an integral bottom part of the frame. The center of gravity of the assembly is brought to the center of the eccentric shaft or within a distance of 25mm below it. The electric motor drives the shaft of the frame and thus imparts required vibrations to the mould. The frequency of vibration is 12000+/-400 vibration per minute. Supplied complete with on 7.06cm cube mould with loose base plate a time switch 0- 5minsx1min and certificate of vibration.

Hydraulic Jack (Hand Operated) Remote Type (90000196)

Hydraulic Jack (Hand Operated) Remote Type

For applying loads for various tests in the field of Laboratory. Hydraulic jack hand operated with separate pumping units. These jacks are portable and available in various capacities. The pumping unit is connected to the hydraulic jack by means of a flexible connecting pipe 2 meter long. The jack is fitted with lifting handles for easy transportation. The approximate lift of the ram is 90 to 120mm. the pumping unit is a single plunger type with detachable handle. The unit is fixed on a channeled base which is fited with lifting handles. A pressure release valve is provided on the pumping unit. The load is indicated on 15cm dial hydraulic pressure gauge of appropriate capacity which can be detached from the pump when not in use. The least cont of the calibrated dial will be according to the capacity of the gauge (Normally 100 divisions for full capacity)

Integral Type Hydraulic Jacks Capacity (30, 50 & 100 Kn) (90000197)

These are hydraulic jacks with integral pumping unit. The hydraulic pressure gauge is of 15cm dial on the side of hydraulic jack. A detachable lever is provided to operate the pump. Lift of the ram is 95 to 100mm. Face of the ram is flat. Note: Hydraulic jacks of 1000Kn & 5000KN capacity can be supplied with two speed pumping units. These jacks have lift of approximately 200mm.

Integral Type Hydraulic Jacks Capacity (30, 50 & 100 Kn)

Compression Testing Machine (90000198)

Compression Testing Machine

Strength of Concrete is a very important aspect during construction. Strength of concrete is obtained by crushing the specimen form of cubes of cylinders. Concrete is carefully designed for a particular compressive strength by the Engineers and specimen is tested by applying load in a compression Testing Machine. Manufactures a range of Compression Testing Machine from 10 Tonnes to 200 Tonnes in different models. Portable models are very convenient and useful for site use where carrying frequently the specimens for testing in a standard Laboratory is inconvenient and uneconomical. With special attachment the machines can also be use for bricks hallow or solid concrete blocks, using appropriate capacity machine In general a Compression Testing Machine consists of a Load Frame with suitable platens and a Pumping Unit with Pressure Gauge, either hand operated or electrically-cum-hand operated. Load Frame and Pumping unit are connected by pressure pipes.

90000198A:- cap. 100 Ton Hand Operated
90000198B:- cap. 100 Ton Electrical
90000198C:- cap. 100 Ton Digital
90000198D:- cap. 150 Ton Hand Operated
90000198E:- cap. 150 Ton Electrical
90000198F:- cap. 150 Ton Digital
90000198G:- cap. 200 Ton Hand Operated
90000198H:- cap. 200 Ton Electrical
90000198I:- cap. 200 Ton Digital

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Mortar Penetrometer (90000199)

The instrument consists of a barrel housing a calibrated spring and a stem graduated from 0- 70 kg X 1 kg. Six interchangeable penetration needles of areas 645, 323, 65, 32 and 16 mm sq. are provided. The penetration resistance is measured by the force exerted to penetrate the mortar by 25 mm and is indicated by a sliding ring on the stem, which is graduated. Needle shanks are marked at every 12.5 mm. Compete in a wooden carrying case.

Mortar Penetrometer

Pocket Concrete Penetrometer

Pocket Concrete Penetrometer (90000200)

Consists of a needle having face area 3/10 sq. cm. and graduated at a distance of 25 cm. The needles point is an integral part of barrel which houses a calibrated spring. The spring is confined in a sleeve. The resistance offered by the concrete mortar is shown on the direct reading scale with a marker ring which holds its position when released. Scale range is 0-50 kg/cm when the penetration resistance reaches a value of 35 kg/ cm2 the concrete is assumed initially set. Supplied complete in wooden carrying case.

Tensile Strength Tester (90000201)

The instrument has a capacity of 1200 lbs. And is hand operated. Automatic loading by lead shots. Double scale of 100 lbs X 1lb and 50 kg, 150kg and 200kg. Spares Accessories: Brass briquette mould for making cement briquette for tensile strength on cement, without base plate. Base plate machined flat to + 0.005 inch. Brass briquette mould three gang complete with base plate.

Tensile Strength Tester

Tensile Strength Tester (Electrically Operated)

Tensile Strength Tester (Electrically Operated) (90000202)

The instrument employs a friction- free, accurate, double lever system, the load being applied by means of sliding weight on the top lever. The capacity of the unit is 900 kgs. After fixing the briquette in the jaws, the machine is switched on. The sliding weight slides over the calibrated lever thus applying tension to the specimen. A micro-switchfitted instantly stops the machine on failure of the briquette and on failure the tensile load is accurately read to 0.5 kg. by means of a marker provided on the sliding weight. The machine can be made opratable for subsequent test only after the sliding weight to its zero position. Suitable for operation on 230 volts, 50 cycles, single phase, A.C. supply. Complete with one brass briquette mould and one base plate.

cap upto 500 kg

Civil Lab Instruments

Concrete Test Hammer (Small) (90000203)

Consists of a barrel in which is housed a hammer mass attached to an impact spring which slides on a guide bar. A plunger is a attached to the guide bar which is pressed against the surface to be tested. As the piston is pressed against the surface to be tested, on reaching the compressive strength, the hammer mass is released and rebounds to a certain extent (according to the strength of the surface) which is indicated by a rider on a calibrated scale. A lock button fixed on the body of the hammer locks the rider in place and the rider can be richard to zero position by using the same button. The equivalent compressive strength can be computed from the chart supplied. Each hammer is calibrated against at standard test hammer, and is suitable for specimen of compressive strengths 100-700 kg/cm The instrument, complete with a grinding stone for polishing the test surface, is supplied in carrying case

Concrete Test Hammer (Small)

Permeability Apparatus (Single Cell Model)

Permeability Apparatus (Single Cell Model) (90000204)

The concrete permeability apparatus comprises of a brass/gunmetal cell of squares crosssection mounted on a stand and a pressure chamber is connected to the cell through copper tubing and Tconnector mounted on the stand with sleeve packed vale and rubber hose pipe with end connections. The cell assembly consists of one base plate, one metal funnel and one top plate, the pressure chamber is fitted with a pressure regulator which helps in regulating the pressure from 0-15kg/cm sq. gauge is for indicating the pressure in the cell. A foot pump and a pressure tube is supplied to develop pressure in the chamber. The apparatus is supplied with a measuring cylinder 500 cc to measure percolated quantity for water. Pressure can also be applied by a pressure air line or by a compressor.

Concrete Permeability Apparatus (90000205)

Accessories: Compressor with pressure gauge 0-20 kg/cm sq. with automatic pressure valve and pressure rubber hose. Suitable for 440 volts A.C. three phase. Specimen casting mould C.I. for 100 mm dia X 100 mm high cylinders. Specimen casting mould C.I. for 150 mm dia X 150 mm high cylinders. Specimen casting mould C.I. for 150 mm cubes. Blow stove ½ litre capacity. Resin, Bees wax, Wire brush, Chissel, spare glass cylinder 500 cc capacity.

Concrete Permeability Apparatus

Laboratory Jaw Crusher

Laboratory Jaw Crusher (90000206)

Jaws Size (mm) 100 x 150
Size of Feed material 50 (mm. Approx) Yield (kgs./Hr) Approx 80
Size of Finished 6 to 18
Product (mm) (adjustable)
Power Requirement 440 V, 3Ph, 50 Hz.

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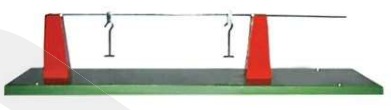
Apparatus For Verification Of Clerk's Maxwell Reciprocal Theorem (9000207)

Verification of reciprocal theorem of deflection using a simply supported beam. Apparatus consists of a beam 100cm long and 1.25 cm x 4 mm in cross section with graduations at every 10cm along the length. It is supported on two knife edge supports 70cm apart with a 30cm overhang on one side. Reciprocal theorem can be verified by direct measurements of the deflections os various points with the help of a dial gauge due to a load placed at the reciprocal points. A dial gauge with 25mm travel (with a magnetic base) is supplied with the apparatus. Apparatus is supplied complete with a supporting stand and a set of weights.



Apparatus For Verification Of Clerk's Maxwell Reciprocal Theorem

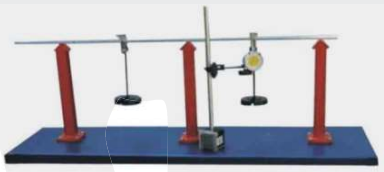
Elastic Properties Of Deflected Beam Apparatus (90000208)

Elastic Properties Of Deflected Beam Apparatus

Verification of moment Area theorem for slopes and deflection of the beam. Apparatus consists of a mild steel beam 2.5cm x 3 mm in cross section and 100cm long, pinned to two supports 70cm apart situated symmetrically. One of the ends can be fixed of given a known slope by applying a known moment of the end with the help of suspended loads. At the other end also a known moment can be applied. Vertical loads can be applied at various points along the span of the beam. A dial gauge with 25 mm travel (with a magnetic base) is supplied with the apparatus . Apparatus is supplied complete with a supporting stand and a set of weights.

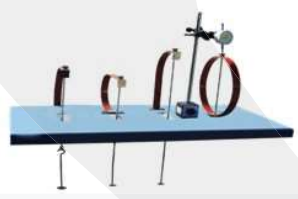
Deflection Of Truss Apparatus (90000209)

Deflection of a truss- horizontal deflection & vertical deflection of various joints of a pin jointed truss. Apparatus consists of 4 panels of a PRATT truss, each panel being 40cm in horizontal direction and 30cm in vertical direction. Load can be applied on each panel point. All tension members are provided with detachable springs so as to obtain appreciable deformation of the member. Direction of the diagonal members may be changed . Apparatus can be used to illustrate visually the nature of forces set up in various members of the Truss. Apparatus is supplied complete with a supporting stand an d a set of weights.



Deflection Of Truss Apparatus

Curved Member Apparatus (90000210)



Curved Member Apparatus

Elastic Displacements (Vertical & Horizontal) of curved members.' Apparatus consists of a steel bar which is used to make the different cur members Viz. circle, semicircle with straight arm, a quadrant of a circle and quadrant of a circle with straight arm. The bottom ends of the members are fixed to the base. Under the application of load at free end, its horizontal and vertical deflection is measured with the help of dial gauges. A dial gauge with 25mm travel (with a magnetic base) is supplied with the apparatus.

Three Hinged Arch Apparatus (90000211)

Experimental and analytical study of 3 hinged arch and influence line for horizontal thrust. The model has span of 100cm and rise 25cm, with hinges at supports and crown. One of the ends rests on rollers. Along the horizontal span of the arch various points are marked at equidistant for the application of load. This being a statically determinate structure, the horizontal thrust developed under the action of any load system can be theoretically calculated and will also be measured directly by neutralizing the outward movement of the roller end. A dial gauge with 25mm travel (with magnetic base) is supplied with the apparatus . Apparatus is supplied complete with a supporting stand and a set of weights.

Three Hinged Arch Apparatus

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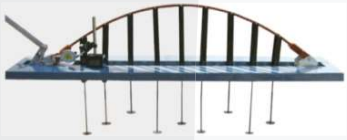
Behavior Of Column And Struts Apparatus (90000212)

Experimental and analytical study of behavior of struts with various end conditions. Apparatus consists of four spring steel columns which are put along a vertical wooden board. These four columns have different end conditions as below:

1. Both ends pinned
2. Both ends fixed
3. One end pinned and other fixed
4. One end fixed and other end free Apparatus is supplied complete with a supporting stand and a set of weights.'

Behavior Of Column And Struts Apparatus



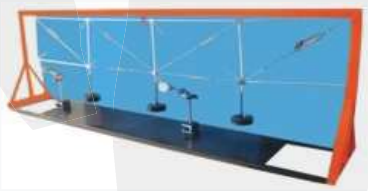
Two Hinged Arch Apparatus

Two Hinged Arch Apparatus (90000213)

Experime nt on a two Hinged arch for horizontal thrust & influences line for horizontal thrust. The model has a span of 100cm and rise 25cm. Both ends are hinged but one of the ends is also free to move longitudinally. A lever arrangement is fitted at this end for the application of known horizontal inward force for measuring the horizontal thrust. Along the horizontal span of the arch various points are marked at equidistant for the application of load. This being a statically indeterminate. structure of the first degree. A dial gauge with 25mm travel (with magnetic base) is supplied with the apparatus. Apparatus sis supplied completer with a supporting stand and a set of weights.

Pin Joint Truss Apparatus (90000214)

Experimental and analytical study of 1 3 bar pin jointed Truss. Apparatus consists of three suspension members (spring balances) of different stiffness which are jointed at a point to form the redundant joint. The upper end of the suspension members being tied in a position to a vertical wooden board. Arrangement is provided on a paper and also elongations and forces in the suspension members by the help of dial gauges. Two dial gauges with 25mm travel (with magnetic bases) are supplied with the apparatus. Apparatus is supplied completer with a supporting stand ans a set of weight.



Pin Joint Truss Apparatus

Unsymmetrical Bending Apparatus

Unsymmetrical Bending Apparatus (90000215)

Experimental and analytical study of deflections for unsymmetrical bending of a cantilever beam Apparatus consists of an angle fo size 1" x 1" x 1/8" or in equivalents metric units of length 80cm is tied as a cantilever beam. The beam is fixed at one end such that the rotation of 450 intervals can be given and clamped such tat the principal axis of its cross-section may be inclined at any angle with the horizontal and vertical planes . Also arrangement is provided to apply vertical load at the free end of the cantilever and to measure horizontal and vertical deflection of the free end. A dial gauged with 25 mm travel (with magnetic is supplied with the apparatus. Apparatus is supplied completer with a supporting stand and a set of weights. base)

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Plastic Limit Set (90000216)

The complete set consists of one each:-
1. Glass plate 20cm x 115cm having ground ends and one side frosted.
2. Brass rod 3mm dia. x 150mm long.
3. Flexible spatula.
4. Set of 6 moisture containers.
5. Porcelain basin 100mm dia.
6. M.cylinder 25ml.

Plastic Limit Set

Shrinkage Limit Set

Shrinkage Limit Set (90000217)

Set consists of one each:- 1. Porcelain evaporating Dish., 2 Shrinkage Dish., 3 Glass Sup., 4 Perspex Plate with three metal prongs., 5 Perspex plate., 6 Flexible spatula., 7 Glass cylinder 25ml x 0.5ml, supplied without mercury. Optional

Cone Penetrometer (90000218)

For determining the Liquid Limit of soils. This is specially useful to obtain reliable and accurate results for those soils which have low plasticity index. The percentage moisture contents determined when cone with half angle of 15-30 minutes under a total sliding weight of 148gm penetrates 25 mm gives the Liquid Limit.

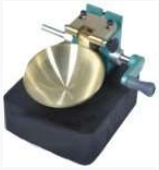
High Speed Stirrer

High Speed Stirrer (90000219)

This is for mechanical analysis and also other Laboratory applications for stirring. Speed approximately 4000rpm under load, A dispersion cup is supported on a rest on the stand of the stirrer and has a removable baffle. For operation on 230-250 volts A.C. supplied without dispersion cup of baffle.

Liquid Limit Device Is: 2720 (Part V) (90000220)

It consists of a brass cup held on an adjustable bracket. The cup can be adjusted for a fall of 1cm and cam be raised and dropped on a rubber base of standard hardness by cam action. Complete with one casagrande grooving tool, one ASTM Grooving tool and a heigh gauge block.



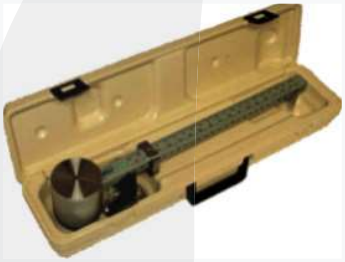
Liquid Limit Device Is: 2720 (Part V)

Civil Lab Instruments

Soil Hydrometer (90000221)

Used for grain size analysis of soils where more than 10% of the material will pass through 75 microns I.S. sieve. Manufactured from clear transparent glass having uniform clarity throughout the upper end on which density scale is engraved. The scale range is 0.0995 to 1.030 density (gms/cc) at 270C. Smallest division on the scale is 0.0005.

Soil Hydrometer



Mud Balance

Mud Balance (90000222)

Designed to find out specific gravities of Semi Liquids like mud and other liquids having densities in the range 0.8 to 25. It has a Stainless Steel bam calibrated specific gravities from 0.8 to 2.5. A stainless steel cup with lid and overflow vent is fitted on one side of the beam. A counter weight with cursor slides over the graduated scale. The beam has a knife edge at centre which rests in fulcrum fitted in the stand. Leveling screws and spirit level are fitted dot the stand.

Sand Pouring Cylinder (90000223)

The complete apparatus consists one each of: Small Sand Pouring cylinder, 3 liter capacity, fitted with conical funnel and shutter. Cylinder calibrating container, internal dia. 10 cm and internal depth 15cm, fitted with a flange, Metal tray, 31cm. square and 4 cm deep with a 10cm dia. hole in the center,

Sand Pouring Cylinder

Core Cutter

Core Cutter (90000224)

It consists one each of: Cylindrical core cutter made of steel, 127.3mm long and 100m internal diameter. Steel Dolley, 25mm high with a lip to enable it to be located on top of the core cutter. Rammer with detachable steel rod. Spare, Optional Extra . Accessories:
1) Cylindrical core cutter 100mm I.D x 175mm long.
2) Cylindrical core cutter 100mm I.D. x 175mm long.
3) Cylindrical core cutter 100mm I.D x 175 mm ling.
4) Dolley.

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Civil Lab Instruments

Standard Compaction Test (90000225)

The apparatus consists one each of Compaction Mould Gun Metal, 100mm I.D. x127.3mm height x 1000 c. Volume, complete with collar and base plate. Rammer 2.6kg x 310 mm controlled fall.

Standard Compaction Test

Universal Automatic Compactor

Universal Automatic Compactor (90000226)

It is a motor driven mechanical compactor useful for soil compaction into 100mm or 150mm diameter moulds. Two sets of rammers are provided, one of 2.6 and arranged for 310mm. drop and other 4.9kg and arranged for 450mm fall. For compaction soil into 150mm dia. moulds, 100mm face dia. rammers having weight .6kg and 4.89 kg are used. Where as for 100 mm dia. moulds they are of 50mm dia. The rammer assembly is provided with a ratchet and pawl arrangement to lift it from the top of the soil layer. When the rammer reaches the required height the pawl release the rammer which falls freely in soil surface. The release mechanism is operated by an arm moving up and down which is connected to a reduction gear coupled to the motor through another arm. An automatic blow counter fitted to the compactor is used to set the number of blows. The base plate of the specimen mould is to fitted to the rotating base plate of the th instrument which make 1/5 revolution per stroke. The equipment is suitable for operation on 230Volts, 50 cycles,single phase, A.C. supply. Mould are to be ordered separately.

Miniature Compaction Apparatus (90000227)

It consists of a metal cylindrical tube having 50mm I.D and 435 mm height, a detachable base plate and a cap are provided for this tube. 8. nos. 1.5 mm dia. holes equally spaced are drilled at a height of 100mm from the base of the tube. A metal rammer 48mm dia. x 48.5 mm in height is attached to a metallic rod with knob, so as to have a combined height of about 550 mm and a total weight of 2.6kg. This rammer is adjusted for a free fall of 310mm. The graduations in millimeters and centimeters are marked on this rod, to coin side with zero (0) of the scale with the cap of the tube. Graduation are marked downward 0 to 8 cm with millimeter divisions. Plate has internal diameter of 50mm dia. OD of 140 mm and height of 25mm is supplied with flange and wing nuts for easily introducing soil sample and removing it.

Miniature Compaction Apparatus

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Civil Lab Instruments

Relative Density (90000228)

The equipment consists one each of: Vibratory table with a cushioned steel vibrating deck about 75 cm x 75 cm. It has a frequency of approximately 3600 vibrations per minute under a 115 kg load. Amplitude is variable in between 0.65mm in steps of 0.05 to 0.25mm, 0.25 to 0.5mm and 0.45 to 0.65mm. Suitable for operation on 415 volts, three phase supply. Cylindrical metal unit with mould, 3000 ml capacity. Guide Sleeve with clamp assembly. Surcharge base plate for mould. Handle for surcharge base plage. Surcharge weight. The total weight together with surcharge base plate and handle is equivalent to 140kg./sq.cm. for mould. Cylindrical metal unit weight mould 15000ml capacity. Surcharge base plate for guide sleeve. Surcharge weight for cylindrical mould of 15000 ml. cap. (Total weight together with the above mould 8 surcharge weight is equivalent to 140 kg./sq.cm.) Dial gauge holder & calibration bar 75 c 300mm x 3mm.

Relative Density

Moisture Tins

Moisture Tins (90000229)

To determine moisture contents in soil and other material. These are made in aluminum.

90000229A:- Moisture Tins 25 MM
90000229B:- Moisture Tins 50 MM
90000229C:- Moisture Tins 75 MM
90000229D:- Moisture Tins 100 MM

Pocket Penetrometer (90000230)

This instrument is used to estimate approximate unconfined compressive strength and the estimation of shear strength of soil. Cohesive soils can also be classified in terms of consistency using this penetrometer. This is a handy and convenient instrument. Specifications: It consists of a light weight barrel assembly with a polished and ground steel loading piston plunger. A direct reading scale is engraved on the piston barrel and indicates load in kg./sq/cm/ A maximum load indicator ring is provided on the penetration plunger. The calibrated spring is heat treated and plated for rust resistance. The barrel diameter is 20mm and the length 150mm. Supplied in storage box.

Pocket Penetrometer

Rapid Moisture Meter

Rapid Moisture Meter (90000231)

The unit consists of a pressure vessel with clamp for sealing cap, rubber sealing gasket, pressure gauge is calibrated in percentage moisture content 0-25% x 1% on the wet weight basic a counter poised balancefor weighing sample, a scoop for measuring carbide reagent, a bottle of reagent, one cleaning brush and a set of 4 steel balls for thorough mixing. Complete in highly polished wooden carrying case with handle.

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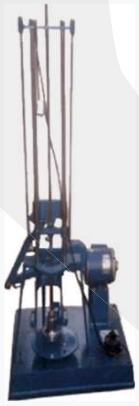
Consolidation Apparatus (90000232)

The standard outfit comprises of the following items. Loading unit, maximum capacity 20 kg/cm sq. having a loading yoke connected to a lever arm with a counter balancing adjustment and having a lever ration of 1:1, the whole assembly being mounted on a sturdy steel frame stand. The loading unit is so designed that it can be used for consolidation cells of different diameters as well as different dia floating ring type consolidation cells. Fixed ring type consolidometer (Odeometer) cell assembly for testing 60mm dia. x 20mm thick specimen comprising: Fixed ring for specimens 60mm x dia. 20mm. thick with guide ring. Top and Bottom Porous stones for 60mm dia. specimens. Perforated Pressure pad, Channelled base with water inlet and Gasket. Flanged Water Jacket, water reservoir with plastic tube and pinch cock. Set of weights to give a pressure of 10kg/cm.sq. on 60mm dia.
specimen, comprising: 7nos. 0.05 kg/sq.cm., 5Nos. 0.1 kg/sq.cm., 6Nos. 0.2kg/sq.cm. and 5 Nos. 1.0kg/sq.cm. Supplied complete as above but without dial gauge. Accessories: Dial Gauge 0.002mm x 10mm. Extension piece, 40 mm long. Test forms pad of 50 for Consolidation Test Plot" Test forms pad of 50 for one Dimensional Consolidation. Optical Extras: Varying head stand pipe, 50cms. Long with mm. scale. Fixed ring type of consolidometer (Odeometer) cell assembly for 50mm dia. x 20 mm thick specimens complete with fixed ring guide ring, pair or porous stones, perforated pressure pad, channeled base, gasket and flanged water jacket. Set of weights to give a pressure of 10kg/sq.cm., on 50 cm. dia specimens. Fixed ring type of consolidometer (Odeometer) cell assembly for 70mm dia. x 20 mm thick specimens complete with accessories as above. Set of weights to give a pressure of 10kg/sq.cm on 70mm. dia. specimen. Fixed ring type of consolidometer (Odeometer) cell assembly for 100 mm dia. x 25 mm thick specimens complete with accessories as above. Set of weights to give a pressure of 10kg/sq.cm.on 100 mm dia. Specimens.

Consolidation Apparatus

Direct Shear Apparatus Electrical (90000233)



Direct Shear Apparatus Electrical

The apparatus comprises of the following:
Loading Unit: Supplied with load yoke with direct and lever system for applying load. Normal stress capacity 8kg/sq.cm. Load is applied either directly of through a counter balanced detachable lever. Provision is made for load to be applied either through a steel ball recessed in the loading pad or direct through a boss on the pre calibrated loading yoke. The loading unit is provided with V strips and roller strips for frictionless movement of shear box housing. Shear Box Assembly: Comprising Direct Shear box in two halves for a square specimen size 60 x 60 x 25 mm one pair of plain gripper plates, one pair or perforated gripper plates, one pair or porous stones, one top loading pad. Shear box housing: Accommodates the Direct Shear Box assembly. Complete with two ball roller strips. Specimen Cutter: For cutting 60 x 60 x 25 mm specimen from larger samples. Set of weights to give a normal stress of 3 kg/sq.cm. through lever as follows:
Essential Accessories: High sensitivity compression ring cap 200 kg one consolidation dial gauge 0.01 mm x 25 mm and one strain dial gauge 0.01 mm x 25 mm and one strain dial gauge 0.01 mm x 25 mm.

Civil Lab Instruments

Extractor Frame Hydraulic (90000234)

It consists of a 5 Ton capacity hand operated, hydraulic jack mounted on a suitable frame. Two plungers, one for 100mm dia. and the other of 150mm dia. moulds are supplied. One thrust plate for 150mm dia. And one for 100 mm dia. specimens are also supplied. Height of thrust plate is adjustable.

Extractor Frame Hydraulic

Extractor Frame Universal (Hand Operated)

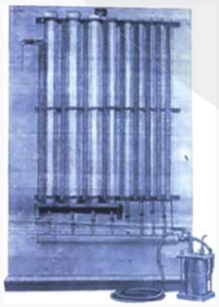
Extractor Frame Universal (Hand Operated) (90000235)

Comprises of a frame designed for screw jack operation, one each of the adaptor for 38mm, 75mm, 100mm, 150mm diameter specimens and a stand to botain simultaneously three 38mm diameter samples from on 100 mm diameter sample. The adaptor plate which slides along the slotted supports can be claimed at any desired position by means of locking nuts. Besides this, the tube or mould can be held in position by raising the tube guides and held in position with locking screw collar. Plunger adaptor for 200 mm dia. samples. Adaptor plate with 200mm. dia. hole and device to extract number 38mm dia. Samples.

Permeability Apparatus With G.i.tank (90000236)

The equipment comprises one each: Gun metal mould, 100 mm I.D. x 127.3mm high x 1000ml volume. Gun metal mould extension collar, 100mm dia. x 60mm high for the above mould. Gun metal Drainage base plate with a recess for a porous stone and with an outlet valve. Metalic clamping ring. Gun metal drainage cap (top plate with a recess for a porous stone and fitted with an inlet valve and an air release valve). Gun metal dummy plate to serve as a false bottom during compaction. Porous stone for drainage cap. Porous stone for base plate. Set of glass stand pipes approximately 6mm dia., 10mm dia. and 20mm dia. mounted on a wooden board. Each glass tube is longer than 1 meter and has a secreted end at the bottom. To read water head 2 Nos. meter scales are fixed between the tubes. A length of 3 meter long rubber tubing with pinch cock is also supplied.

Permeability Apparatus With G.i.tank



Universal Or Combination Permeameter

Universal Or Combination Permeameter (90000237)

Same as above but instead of a set of three glass stand pipes a stand with nine glass tubes of 6mm, 10mm, 20mm, 25mm, 40mm, 50mm, 60mm, 70mm 75mm, 75mm bore. 75mm bore tube is provided with overflow arrangement for constant head tests. The remaining tubes are used for falling head test. Optional: Overhead tank made of steel, approximately 37.5 cm dia. x 1 mtr. High. It is provided with an inlet port at the top and size outlet at bottom with cocks and air inlet and water filling tube on top.An arrangement is provided to indicate the water level. An extra metallic tube having approximately 5mm/6 I.D. and 1 mtr. long is also supplied 2.6kg x 310 mm controlled fall and Rammer 4.89kg x 450 mm controlled fall.

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Civil Lab Instruments

Unconfined Compression Test Apparatus (90000238)

Consists of a spring operated load frame with arrangements for loading 38mm x 76mm samples, one set of four load springs of stiffness 0.2kg, o.4kg, 0.8kg and 1.6kg/mm, a calibrated mask and one set of 50 charts, in a metal carrying case. Spares & Accessories: Charts set of 50 Calibrated mask. Spring set comprising one each of stiffness 2N/mm, 4N/mm, 8N/mm and 16Nmm Coning toll for 38mm sample (female) Coning toll for 38 mm sample (male) Tripod stand wooden, for using the instrument in field.

Unconfined Compression Test Apparatus

Unconfined Compression Tester Proving Ring Type (Hand Operated) (90000239)

Unconfined Compression Tester Proving Ring Type (Motorized)

Comprises of a hand operated load frame, cap. 5000 kgf with screw jack fro loading, handle and strain dial gauge bracket, adaptor fro proving ring, conical seats and male/female coning tools for 38 mm dia. sample. Supplied without proving ring, dial gauge.

Unconfined Compression Tester Proving Ring Type (Motorized) (90000240)

Comprises a screw operated load frame cap 5000kg with a gear box and motor drive giving 1.25, 1.5, 2.5mm/min rates of strain, a pair of cone seating adaptor for proving ring and stain dial gauge bracket. Supplied with one pair of male/female coning tools fro 38mm dia. samples but without proving ring and dial gauge. Suitable for operation on 230volts, Single phase A.C. Supply.

Accessories: Coning tools in pairs (male & female) for samples having diameter 38mm, 500mm, 75mm & 100mm.

Unconfined Compression Tester Proving Ring Type (Motorized)

Motorized Unconfined Compression Tester Proving Ring Type With All Accessories (90000241)

Same as above but having only one rate of strain 1.25mm/min.

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Civil Lab Instruments

Unconfined Compression Tester (Proving Ring Type) (90000242)

Capacity 50kg. Specimen size 30mm dia. x 76mm long. Stain measurement is done on a scale fixed to one the pillars. Scale graduated mm. complete with conical seating, a male coning tool and one proving ring 50kg. cap. With chart, specimen 40m dia. x 80mm long can also be tested.

Unconfined Compression Tester (Proving Ring Type)

Triaxial Cell

Triaxial Cell (90000243)

The cell is useful for testing 38 mm dia. x 76 mm high soil specimen. Transparent Perspex chamber with anvil and loading plunger. The cell is easily opened by releasing four nuts of the tie rods. It is leak proof upto 10kg/cm sq. fluid pressure. An oil plug which can also be used as an air vent is provided for introducing a thin layer of oil over water. This provided effective sealing at the plunger for long duration test.The cell is fitted with four sleeve packed valves of no volume change type on the base. These valves are used for cell pressure, pore water pressure, drainage or back pressure. The loading plunger of the cell has a dial gauge rest. Loading pad made of Perspex for 38mm dia. specimens. Pair of plain discs made of Perspex 38 mm dia mm dia. 6 mm thick. Pair of porous stones 38mm dia. x 6 mm thick. Split sand former for 38mm dia. specimen. Sheath stretcher for 38 mm dia. specimen. One dozen rubber sheaths for 38 mm dia. samples. For synthetic rubber 'O' rings for 38 mm dia. Specimen.

Pore Pressure Apparatus (90000244)

The apparatus consists of a panel for wall mounting on which are fitted -1.0 to 10 Manometer: Glass U-tube manmeter for measuring low positive pore pressures negative pore pressures and checking zero error of pressure gauge. It is provided with a mercury trap (Mercury supplied at extra cost. Null indicator made out of clear transparent Perspex with mercury trap and cursor to indicate the mercury level.)

Pore Pressure Apparatus

Soil Trimmer (Hand Operated)

Soil Trimmer (Hand Operated) (90000245)

The cell is useful for testing 38 mm dia. x 76 mm high soil specimen. Transparent Perspex chamber with anvil and loading plunger. The cell is easily opened by releasing four nuts of the tie rods. It is leak proof upto 10kg/cm sq. fluid pressure. An oil plug which can also be used as an air vent is provided for introducing a thin layer of oil over water. This provided effective sealing at the plunger for long duration test.The cell is fitted with four sleeve packed valves of no volume change type on the base. These valves are used for cell pressure, pore water pressure, drainage or back pressure. The loading plunger of the cell has a dial gauge rest. Loading pad made of Perspex for 38mm dia. specimens. Pair of plain discs made of Perspex 38 mm dia mm dia. 6 mm thick. Pair of porous stones 38mm

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Civil Lab Instruments

Dead Weight Type Oil Water Constant Pressure System (90000246)

Range 0-20 bar (0-20 kg/cm) Steps of pressure 0.5 bar (00.5kg/cm) Accuracy + 0.5% Electric Supply 230Volts, Single Phase, 50Hz, A.C. Supplied complete with Pressure Gauge, flow valves, 2 connecting Pressure hose and set of weights to give maximum pressure of 20 bar (20kg/cm)

Dead Weight Type Oil Water Constant Pressure System

Swell Testing Apparatus

Swell Testing Apparatus (90000247)

The outfit comprises the following: One loading unit, hand operated 5 tons capacity with two rates of travel. One high sensitivity Proving Ring 250kg. capacity with calibration chart and carrying case. One Dial gauge 0.01mm x 25mm. One Gun metal mould 1000ml. capacity. (100mm dia. x 127/3mm high) with collar and base plate and pair of porous stones 100mm dia. x 12.7mm thick. One Gun metal/brass perforated swell plate 100mm dia x 16mm thick. One spacer 100mm dia. x 12.7mm thick; one load transfer bar and one steel ball. One soaking tank 250mm dia x 210mm high.

California Bearing Ratio Apparatus Hand Operated (90000248)

The equipment consists one each of the following: load frame, Hand operated, Capacity 5000kg. with high and low rates of travel of the lead screw. Mould made from Gun0metal/Brass, 150mm internal dia. x 175mm high, with perforated base plate and extension collar 50mm high. Penetration piston, face dia. 50mm with adjustable bracket for penetration dial gauge. Circular metal space disc, 148mm dia. x 47.7mm high. With detachable handle. Annular metal weight, 2.5k., 147mm dia. with 53mm dia. central hole. Slotted metal weight, 2.5kg. 147mm dia. with 53 dia. slot. Perforated plate made of Gun-metal/Brass 148mm dia. with adjustable stem and lock nut and a metal tripod for dial gauge. Cutting collar. Rammer 2.6kg weight with drop of 310mm. Rammer 4.89kg. with drop of 450mm. Supplied proving ring and dial gauge.

California Bearing Ratio Apparatus Hand Operated

California Bearing Ratio Apparatus (Motorized)

California Bearing Ratio Apparatus (Motorized) (90000249)

Similar to above but supplied with bench mounting type 5000kgf. Capacity load frame motorized, in place of load frame hand operated. The lead screw of the load frame has a single constant rate of travel of 1.25mm/minute. Accessories for Laboratory C.B.R. Apparatus: High sensitivity proving ring 300kg. capacity with calibration chart and carrying case. Dial Gauges, 2Nos. 01mm x 25mm. Annular metal weight 5kg 147m dia. with 53mm dia. central hole. Slotted metal weight, 5kg. 147mm dia. with 53mm dia, slot. Note: Proving Rings of other capacities are also available.

Civil Lab Instruments

Load Fame Capacity 5000kg (Hand Operated) (90000250)

The Unit is designed for a maximum load of 5000kg. and consists of a two speed screw jack mounted in a frame with identical top and base channel pieces so that the unit can be placed either way up and the device can be used for loading from above of from below whichever is convenient. This is a floor model.

Load Fame Capacity 5000kg (Hand Operated)

California Bearing Ratio Test (field Type)

California Bearing Ratio Test (Field Type) (90000251)

Mechanical screw loading jack, 10,000kg. capacity with U-bracket and swivel head. Penetration piston, 50mm dia.threaded at eh upper end. Extension rods consisting of 2 lengths 5cm. 2 lengths 10cm., 1 length 30cm., 1 length 50cm., 1 length 10cm., used as spacers between the proving ring and penetration piston. The lengths are machined from steel tubing Connector set, has eight connectors for coupling the penetration piston a nd proving ring assembly either directly or through extension pieces. Dial gauge support of seamless pipe construction. It stands 30cm hig and 45cm wide at eh base. Provided with a quick release screw type-clamp capable of sliding and locking anywhere along 2 meter length of the bridge. Supplied with annular metal weight 5kg., 250mm dia. with 53mm dia. central hole, slotted metal weight 5kg., 215mm to 250mm dia. with 53mm dia. slot, 2Nos. Slotted metal weights, 10kg, 25mm to 250mm dia. with 53dia slot 2Nos.
Accessories: Dial gauge 0.01mm x 25mm. High sensitivity Proving Ring 5000kg capacity with calibration chart and carrying case.

Bench Mounting Type Load Frame Capacity 5000kgf (Motorized) Three Speed (90000252)

Same as above but provided with 3 rates strains 1.25mm/min., 1.5mm/min. & 2.5mm/min.

Bench Mounting Type Load Frame Capacity 5000kgf (Motorized) Three Speed

Load Frame 5000kgf (Motorized) 10 Speeds

Load Frame 5000kgf (Motorized) 10 Speeds (90000253)

It consists of a cabinet which houses the electrical motor, reduction gear and the turret gear box. The loading is done by the upward movement of the lower platen of approx. 198mm dia. which is firmly fixed to the lead screw. When the lever is set in the neutral position, it isolates the lead screw from the rest of the drive mechanism and the lead screw can be manually moved up or down by operating the handle. The various rates of strain that can be obtained are as follows.

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Civil Lab Instruments

Point Load Index Tester (90000254)

The instrument comprises of:- A three pillar type load frame on the base of which at the centre is fixed a 10 tone capacity hydraulic jack. With a conical platen at the top of jack. The other conical platen is fixed to the top plate of the frame at its centre. The distance between two conical platens is adjustable by vertical movement of the upper plate of the load frame. Loading jack with integral hand operated pump and a pressure gauge 0-2500kg. x 25kg.

Point Load Index Tester

Split Spoon Sampler

Split Spoon Sampler (90000255)

The sampler is made from a steel tube split lengthwise and held together by a head fitted with a ball check valve and a hardened steel shoe of inside cutting edge of 35mm dia. The sampler is 35mm I.D. and 50.8mm in outer diameter and 508mm/long. One adaptor to connect 'A' type drill rods is also supplied.

Static Cone Penetrometer 3000kg. Capacity (Hand Operated) (90000256)

Penetration cone, steel 60 angel 10sq.cm.base area with friction jacket one. Mantle tube, non-uniform 36mm OD at the two ends and reduced dia. in between with sounding rod, working.
length 1m.....Fifteen.
Load measuring head with automatic cut-off valve and oil can one set.
Pressure Gauge 0-160 kg/cm.sq.....one
Pressure Gauge 0-160 kg/cm.sq.....one
Auger with bolt.....Four
Auger driving handle.....Four
T-rod.....One
Spanner.....One

Static Cone Penetrometer 3000kg. Capacity (Hand Operated)

Vane Shear Apparatus (Hand Operated)

Vane Shear Apparatus (Hand Operated) (90000257)

Vane Shear Apparatus Electrical:- (90000257A)

Consists of a torque head adjustable in height by means of a lead screw rotated by a drive whee to enable the vane to be lowered into the specimen. Rotation of the vane is by means of a hand wheel operates a worm gear arrangement during the upper end of a calibrated torsion spring. Vance dia, rod dia., vane size & vane height are as per IS specifications. The Vane shaft is attached through the hollow upper shaft to a reset table pointer, which indicates the angel of torque on a dial graduated in degrees. The dial reading multiplied by spring factor gives the torque. A container for soil sample is also supplied, and a sampling tube of 38mm I.D. & 150mm long can also be used as container. Supplied with set of four springs, one each of approx. 2kg.cm., 4kg.cm., 6kg.cm., and 8kg.cm. Complete as above in a wooden carrying case.

Civil Lab Instruments

Hand Vane Tester (90000258)

Complete with 19mm Vane, range o to 120 kpa, 33mm vane, range o to 28 kpa, Spanners and carrying case. Accessories: Extra rod 300mm long, Extra rod 1000mm long.

Hand Vane Tester

Vane Shear Test

Vane Shear Test (90000259)

The equipment consists of a torque applicator assembly mounted on a base. A gear wheel, which is marked in degrees, holds a torque ring and is geared to a crank. The torque ring is a split ring and deforms as torque is applied and the deformation is indicated by a dial gauge. A calibration Chart to convert dial gauge reading to torque force in kg cm. is supplied. A pointer is provided for registering the rotation of the vane. A detachable stand is provided to anchor the instrument. An attachment to securely hold the string of rods is provided. The equipment comprises of the followings:

Torque applicator assembly capacity 2000kg cm with split proving ring and dial gauge 0.002mm x 5mm complete with stand.
Vane (with vane rod) 37.5 mm dia. 75mm high.....1No.
Vane (with vane rod) 50mm dia. x 100mm high.....1 No
Torque rod (Square cross section) 0.6mtr. long.....1 No
Rods, quick coupling type, 1mtr. Long.....25Nos.
Rods, quick coupling type, 1/2mtr. Long.....10Nos.
Dummy rod, corresponding to 37.5 mm dia. Vane.....1No
Dummy rod, corresponding to 50 mm dia. Vane.....1No

Accessories:

Vane (with vane rod) 65mm dia. x 130mm high.
Vane (with vane rod) 75mm dia. x 150mm high.
Vane (with vane rod) 100mm dia. x 200mm high.
Dummy rod, corresponding to 65mm dia. Vane.
Dummy rod, corresponding to 75mm dia.
Vane Dummy rod, correspondent to 100mm dia. Vane

Sieves (90000260)

These sieves are manufactured as per various standards like ISS, BSS, ASTM, DIN etc. In Civil Engineering it is a common practice to use sieves for gradation and particle size determination. Manufacturers brass frame and G. I. Frames Sieves of dia. 200mm, 300mm and 450mm. Normally brass sieves are manufactured in 200cm dia. and frame is spun brass, The Sieve cloth used is standard SS or phosper bronze wire mush. The G.I. Frames sieves manufactured normally n sizes 300mm dia. or 450mm dia. have a steel perforated sheet having accurately punched square holes.

Sieves

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Civil Lab Instruments

Sieve Shaker (Hand Operated) (90000261)

The side to side movement tothe carrier which can take upto 7 sieves of 200mm or 300mm diameter is through a train of gears operated by a hand wheel. A heavy fly wheel ensures smooth operation.

Sieve Shaker (Hand Operated)

Gyratory' Sieve Shaker (90000262)

'Gyratory' Sieve Shaker

Carries upto 7 Sieves of 200mm or 300mm diameter. The shaker is driven by a 1/4 H.P motor through a reduction gear immersed in oil. The sieve table dies not rotate but is inclined from the vertical axis and the direction of inclination changes progressively in clockwise direction. If the stop-pin below the table is removed, the shaker can have a rotary motion. In addition to this gyratory motion of the table, three is and upward and downward movement ensuring that each square cm of the sieve is utilized. A pair of rods and a holder are supplied. The holder can be fixed on the top of the upper most sieve, and thus the sieve set is firmly held. Suitable for operation form 230volts, 50 cycles phase, A.C. supply. Nett weight approx. 77kgs.

Plate Bearing Test (90000263)

The basic outfit consists of : 50 tone Hydraulic jack with separate pumping unit fixed to a 0-500KN x 0.5KN. Pressure gauge and flexible metal piper 5 mtr long- 1No. Special ball and socket arrangement between the jack and the bearing plate-1No. Extension rod 12mm. dia. x 25cm. long for taking dial gauge readings-16 Nos. Magnetic base with female thread on top for holding extension rod-4Nos. Top end plate, 50mm, dia. with male thread for fitting onto the extension rods and positioning the dial gauge plinger-4Nos. Column 15cm. dia. x 25cm long with flanges complete with four bolts and nuts- 2Nos. Column 15cm. dia. x 50cm long with flanges complete with four bolts and nuts- 1Nos. Bridge support of welded steel angel construction, 5mtr. Span and stands approximately 30cm, high, fitted with two quick release clamps a for positioning and holding the dail bracket- 2Nos. Plane M.S. Plate 60cms x 60cms. Square x 25mm thick plane M.S. Plate 45cmx square x 25mm thick plane M.S. Plate 30cms x 30cmx square x 25mm thick Dial Gauge 0.01mm x 25mm- 4Nos.

Civil Lab Instruments

Compression Proving Rings

Compression Proving Rings (90000264)

They are made out of special steel carefully forged to give maximum strength and machined to give highest sensitivity combined with stability to ensure long life and accuracy. When compressive of tensile load is applied within the elastic range, the proving rings get temporarily deformed. This deformation is measured by a sensitive dial gauge fixed co-axially at The center of the proving ring. The dial gauge readings thus obtained versus load applied enable the operator to find out unknown load, just by noting the dial gauge reading for the unknown load. The proving Rings have high elasticity and on removing load they regain their original shape provided they are loaded in their elastic limits.

(a) Above cap. 50 to 500kgf .,
(b) Above cap. 500 to 3000kgf .,
© Above cap. 3000 to 5000kgf .,
(d) Above cap. 5000 to 10000kgf .,
(e) Above cap. 10000 to 20000kgf .,
(f) Above cap. 20000 to 30000kgf .,
(g) Above cap. 30000 to 50000kgf .,
(h) Above cap. 50 000 to 100000kgf .,
(I) Above cap. 100000 to 200000kgf .,
(j) Above cap. 200000 to 300000kgf .

Tension And Compression Type Proving Ring (90000265)

Available From 200kg. To 10000kg. Capacities Tension Compressi0on Proving Rings are having standard ½" (BSF threads) and for measuring tension, 2 Nos. tension rods having male threads at both ends are supplied. For measuring loads in compression these tension rods are removed and the ring can be used in usual way. Works calibration charts for tension and with each ring. Supplied complete with tension rods in a carrying case.

Tension And Compression Type Proving Ring

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Universal Testing Machine (Mechanical) (90000266)

Salient Features :-

- Loading accuracy as high + 1%.
- Speeds:
  Straining at variable speeds to suit wide range of materials.
- Facilities for tests:
  Motor-driven threaded columns for quick and convenient adjustment of lower cross head to facilitate rapid fixing of test specimen.
- Autographic recorder:
  Simultaneous roll autographic recorder supplied as standard to enable study of the behaviors of Materials.
- Ideal Dia.:
  High reading accuracy due to large size ideal design of dial.
- Large columns:
  Large effective clearance between columns enables testing of standard specimen as well as structures.
- Easy Changeability:
  Easy change from phain to threaded and screwed specimens.
- Simple and Safe:
  Simple to operate.
- Robust construction.
- Chrome plated metal components.
- Wide range of standard and special attachments / accessories available.

Hydraulic Electronic Microprocessor Based Version (90000267)

Application System:

- This is state of the art micro processor based signal processor which operates on digital o/p signal from data Acquisition part and displays the test results on large digital displays. This also handle relevant calculation toge UTS value, % displacement, Break load etc. Feature: up based.
- Large display for load and displacement.
- Centronic parallel port for printer/plotter inter face (optional)
- Result includes:
    a. Load Vs Displacement
    b. Maximum load
    c. Maximum displacement
    d. UTS value
    e. Proof stress (with Extensometer)
- Data entry through push button type keyboard.

Safety Features:

- Machine stops after specimen failure.
- Safety against over travel of piston.
- Surge protector.
- Auto machine diagnosis.
- Safety against overload.

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Universal Testing Machine Servo Control Version (90000268)

Salient Features:

- Peakloadalongwithonlineload.
- Ultimatetensilestrength
- Graphicaldisplayofloadvstime.
- Graphicaldisplayofelongationvstime
- Graphicdisplayofloadvselongation.
- Graphicdisplayofstressvsstrain
- Load-kn-min.
- Displacement:mm/min.
- Completestatisticalanalysis
- Datareportmanagement.

Technical Specifications:

Model	Units	AMT-10	AMT-10E	AMT-20	AMT-20E	AMT-40	AMT-40E	AMT-60	AMT-60E	AMT-100	AMT-100E	AMT-200	AMT-200E
Max. Capacity		100		200		400		600		1000		2000	
1st Measuring Range Resolution	KN	0-100 0.2	0.01 KN	0-200 0.4	0.02 KN	0-400 0.8	0.05 KN	0-600 1	0.05 KN	0-1000 2	0.10 KN	0-2000 4	0.20 KN
2nd Measuring Range Resolution	KN	0-50 0.1		0-100 0.2		0-200 0.4		0-300 0.5		0-500 1		0-1000 2	
3rd Measuring Range Resolution	KN	0-25 0.05		0-50 0.1		0-100 0.2		0-120 0.2		0-250 0.5		0-500 1	
4th Measuring Range Resolution	KN	0-10 0.02		0-20 0.04		0-40 0.08		0.6 0.1		0-100 0.2		0-200 0.4	
Max. Clearance for Tensile Test	mm	50-700		50-700		50-700		50-800		50-850		50-900	
Max. Clearance for Compression Test	mm	0-700		0-700		0-700		0-800		0-850		0-900	
Clearance between Columns	mm	500		500		500		600		750		850	
R.A.M. Stroke	mm	150		200		200		250		250		300	
Straining/Piston Speed at no load	mm mm	0-300		0-150		0-150		0-100		0-80		0-45	
Electric Supply	kw	1		1		1.75		1.9		2.6		3	

Standard Accessories

For Tension Test: Clamping Jaws for round specimen	mm	20-Oct 20-30	20-Oct 20-30	25-Oct 25-40	25-Oct 25-40 40-55	20-Oct 25-40 45-70	20-40 40-60 60-80
Clamping Jaws for Flat specimen	mm	0-10 20-Oct	0-10 20-Oct	0-15 15-30	0-15 15-30	0-22 22-44 44-65	0-20 20-45 45-70
Width	mm	50	50	65	70	70	100
For Compression Test: Pair of compression plate of diameter	mm	120	120	120	120	160	220

For Transverse Test
Table with adjustable rollers

Width for rollers	mm	160	160	160	160	160	200
Diameters of rollers	mm	30	30	30	50	50	70
Max. Clearance between support	mm	500	500	500	600	800	900
Radius of punch top	mm	6, 12	6, 12	12, 16	16, 22	16, 22	30, 40

Technical specifications for higher capacity machine will be sent on request.

Special accessories : This include load stabilizer, Brinell test attachment, 180° Bend test attachment, Shear test attachment and a wide range of accessories offering on request, at additional cost.

Installation : It is recommended that machines be erected on a foundation.

Impact Testing Machine (90000269)

This Pendulum impact tester

The impact energy absorbed by the specimen during reputure in measured as the difference between the height of drop before repute and the height of rise after rupture of the test specimen and is read on the dial scale.

Technical Data :

Charpy and Impact Tension Test		Izod Test
Pendulum drop angle	140"	85" 21"
Effective weight	20-59 kg.	21.79 kg
Speed	* 5.3465 m/sec	3.857 m/sec.
Impact energy	30kgm (300J)	16.4 kgm (164J)
Min. graduation	2J	2J
Distance of axis of hammer rotation and centre of test piece/point of test piece hit by hammer	825mm	825mm
Max. permissible loss by friction	0.5% of max. impact energy	

Charpy Test	Izod Test	Impact Tension Test
A) Striking edge	A) Striking edge	A) Striking edge
Angle 30 ° +- 1 °	Angle 75 °	Distance between forks 36mm
Radius of curvature 2.25mm	Radius of curvature 0.75mm	Radius of curvature 1mm
Width 18mm	Horizontal relief 10"	
	Vertical Relief 5"	
B) Support	B) Support	B) Support
Distance between arm 40mm	For gripping specimen with	for clamping specimen with
Slopping angle 0"	dimension of 10 x 10mm	dimension of following
Relief angle 10"		Diameter 6.4mm
Radius of curvature 1.25mm		Length (Total) 6.4mm
		Length (Measuring) 25.4mm
		Thread of supporting M10 x 1.5

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Tensile Testing Machine (90000270)

- Tensile Testers are electrically operated machines for testing tensile strength and elongation of materials like plywood, wires, cables, conductors, ferrous and non-ferrous materials.
- Brand Tensile Testers are manufactured in various capacities and tests can be conducted on these machines by simply incorporating appropriate traverse speeds and using suitable grips in conformity with the adopted BIS, BS, ASTM, DIN and ISO standards.
- Brand Tensile Testers are quite capable of conducting. Compression and Bending tests a parts from performing tensile and elongation tests.
- Brand Tensile Testers are manufactured in different capacities upto 10000 kfg. in our 'AMT-2 Series' ensuring + 1% accuracy in the test results.
- Brand Tensile Testers are extra elegant, best quality, durable and accurate with matchless pe refection.
- Tensile Testers are also offered on specific requirements with load graduation in Kilograms Newton Electronic up based and computerized tensile testers can also be manufactured on specific requirements. Besides a wide range of accessories depending upon the individual requirements, for the rests involved, of the user and a prompt and reliable after-sales service facilities are also available.

Technical Data :

Model	Unit	AMT-2a	AMT-2ae	AMT-2b	AMT-2be	AMT-2c	AMT-2ce	AMT-2d	AMT-2de	AMT-2e	AMT-2eE	AMT-2f	AMT-2fe
Cap.	N	2500		5000		10000		25000		50000		100000	
Ranges		0-500Nx0.01		0-1000 x 0.2N		0-10000x0.2		0-25000Nx50N		0-50000Nx50N		100000Nx200N	
		0-1000Nx0.01	5N	0-2500x0.2N	5N	0-5000x0.1	10N	0-10000Nx2N	20N	0-10000Nx20N	20N	0-50000Nx100N	50N
		0-2500 x 0.05		0-5000x0.10N		0-2500x0.05		0-5000Nx1N		0-5000Nx10N		0-2500Nx50N	
Traverse Speed per specification (mm/min) or as		300 and 100		100		100		100		100		25 AND 12.5	
Grip Separation													
Minimum		25mm		25mm		25mm		25mm		25mm		25mm	
Maximum		1000mm		1000mm		750mm		750mm		75mm		600mm	
Power		3 ph 440 V		3 ph 440 V		3 ph 440 V		3 ph 440 V		3 ph 440 V		3 ph 440 V	
Requirement		50 Hz Ac		50 Hz Ac		50 Hz Ac		50 Hz Ac		50 Hz Ac		50 Hz Ac	
Over-travel													
Safety Switches		Included		Included		Included		Included		Included		Included	

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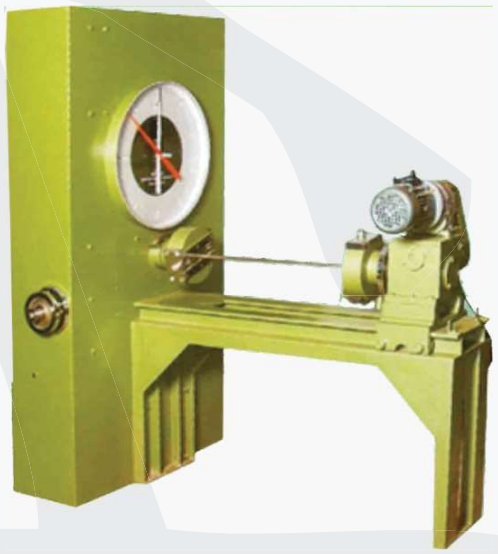
Som Lab Intruments

Torsion Testing Machine (90000271)

Specifications :

- Unique 'TALON-CLAW' Grips for round and flat specimens.
- Torsional speed of 0.1/0.2 RPM.
- Torque compensated motors.
- Maintenance free gear box.
- Auto range selection with range selector wheel (Optional).
- 3 or 4 Torque rnages for higher accuracy (Optional)
- Load-unload capability.
- Variable speed drive (Optional).



Digital Mode also Available :

Torsion Testing Machine is designed for conduction torsion and twist tests on various metal wire, tubes sheet materials. Torque measurement is by pendulum dynamo meter system. Torque ranges can be adjusted. Torque can be applied to specimen by geared motor through gear box. Autographic recorder can be provided to know the relation between torque and angle of twist on specific request.

The accuracy of the torque indication + 1% of the true torque.

Technical Specification :

Model	AMT-3a	AMT-3b	AMT-3c	AMT-3d	AMT-3e	AMT-3f	AMT-3g	AMT-3h
Capacity kg-m	6	10	20	50	100	200	300	600
Range in kg-mm	6 & 3	10, 5 & 2	20, 10 & 5	50, 25 & 10	100, 50 & 20	200, 100, 60 & 30	300, 150, 100 & 60	600, 300 & 100
No. of divine. on dial	500	500	500	500	500	500	600	600
Torsion Speed & Direction	Fixed One way	Fixed Reverse	Fixed Reverse	Fixed Reverse	Fixed Reverse	Fixed Reverse	Fixed Reverse	Fixed Reverse
Clearance between Grips (mm)	0-400	0-420	0-450	0-500	0-500	0-1000	0-1000	0-1500
Grips for round bars (mm)	12-Apr	12-Apr	20-Jul	30-Oct	Oct-34	20-50	30-60	40-70
Grips for flat bars (mm)	5-Jan	8-Feb	10-Mar	12-May	15-May	20-Oct	15-25	25-40
Width (mm)	25	25	30	40	50	60	60	70
Gear Motor 3ph (ph)	0.5	0.5	0.5	0.5	0.5	2	3	5

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Fatigue Testing Machine (90000272)

Specifications :

- Light weight, compact size, simple design.
- Table model.
- Simple lever system for changing load.
- Accurately calibrated as per ISO75.
- 10 Digit electronic counter instead of mechanical counter can be supplied at additional price and the model is termed as AMT-F10.
- Machine with maximum bending movement upto 400 kg/cm can be offered on request.

Technical Specification Model Ft :

1	Maximum bending moment	kg cm	200
2	Bending movement adjustable	kg cm	0-200
3	Ranges	1-kg cm	30-100
		11-kg cm	100-200
4	Gripping dia. of specimen	mm	12
5	Testing dia. of specimen	mm	8
6	Rotating speed	rpm	4200
7	Accuracy of applied bending	moment	-0.01
8	Digital counter No. of digits		10
9	Power required	H P	0.5
10	Main supply	A.C. ph	220V, 50 Hz

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Brinell Hardness Tester (90000273)

The machine is designed with a hydraulic power pack and control circuit for effortless loading unloading operation. A dial gauge in from measures depth of ball penetration. This facilitates production testing within tolerance limits by comparison method.

Standard Accessories :

Model	AMT 3000
Testing table 200mm â^…	1 pc.
Testing table 200mm â^… with 'V' grove for round jobs-10 to 80mm dia.	1 pc.
Ball holder 5mm	1 pc.
Ball holder 10mm	1 pc.
Test block HB-5/750	1 pc.
Test block HB-10/3000	1 pc
Brinell Microscope	1 pc.
Allen spanner	1 pc.

Technical Specification Model Ft :

M o d e l	A M T 3 00 0
M a x. lo ad (k gf)	3 00 0
L oa d ran ge (k gf)	In s ta ge of 2 50 K G F
Initia l lo a d ran ge (k gf)	25 0
M a x. tes t he igh t (m m)	41 0
D ep th o f th re a d (m m)	20 0
S iz e o f b a se (m m)	6 7 0x 97 0
M a c hin e h eig ht (m m)	1 1 27 m m
N ett. w e igh t (A p prox .) k g.	45 0k g
T e s t p e rfo rm e d	B rin e ll

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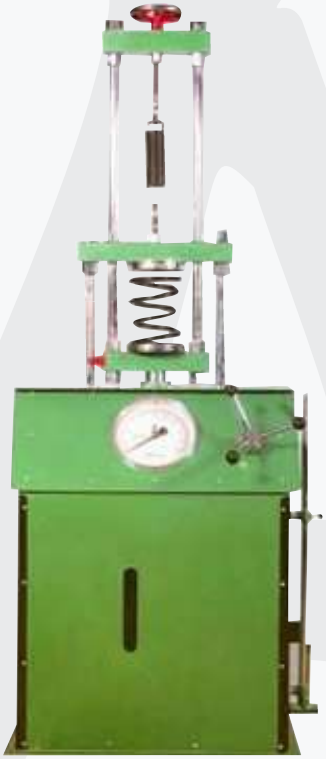
Rockwell Hardness Tester (90000274)

Technical Specification :

Model	AMT, 5A-5B	AMT 5C	AMT 5D	AMT 5E	AMT 5F
Max. load (kgf)	150	187.5	250	45	150
Load range (kgf)	60, 100, 150	60, 100, 150, 187.5	60, 100, 150, 187, 5, 250	15, 30, 45	15, 30, 45, 60, 100, 150
Initial load range (kgf)	10	10	10	-	3.1
Max. test height (mm)	216	216	290	-	290
Depth of throad (mm)	133	133	148	148	148
Size of base (mm)	171x445	171x445	210x510	210x510	210x510
Machine height (mm)	635	635	845	845	845
Nett. weight (Approx.) kg.	77	77	137	137	137
Test performed	Rockwell	Rockwell & Brinell	Rockwell & Brinell	Superficia	Rockwell & Superficial

Universal Spring Testing Machine (90000275)



The Machine is designed to conduct tension test and compression test on spring specimen and calculate the 'K' factor.

The compression plates are hardened ground and polished with guides provide on the bottom platen to eliminate slippage of spring during testing.

Specification :

- Mechanical version:
- Load indicated on graduated dial scale.
- Electric digital version:
- Load indicated on microprocessors based digital indicator.
- Computerized version:
- Load and elongation are displayed on computer monitor along with. DATA Analysis and reporting software.

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