



COMPANY PROFILE

We take this opportunity to present before you our new E-Catalogue Over the years we are Manufacturing and Exporting Educational Equipment's, Scientific Instruments, Laboratory Equipment's, Model of Human Physiology, Botanical s and Zoological Fiber Glass/ Plastic Models, and Laboratory Glassware, Teaching Aids, Audio Visual Aids, Fiber Glass Models etc. and are in a comfortable position to meet the requirements of our valuable customers.

Ours is a well Established Organization supplying Instrument in many countries to the best possible satisfaction of our buyers. Through all these years it has been our aim to produce instruments not only convenient in use but which retain their original accuracy for a long period of Time. All our products are being manufactured under the guidance of Highly Qualified and Experienced Technicians. Our Instruments are of Rigid Construction; Reliable in Performance and the Quality you can believe on.

Our Prices are Highly Competitive and the Quality is Comparable to that of any of the world's best manufacturers. Be assured that best quality material will be supplied to you with in the schedule time and you find our Products much superior/competitive than any other make being offered to you

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AI 1001 Aluminum Foil

Suitable for May laboratory applications, including sealing bottles, culture tubes. Sealing leaks reducing evaporation or heat losses, covering corks, making weight boats. Can be labeled using a china graph pencil.



AI 1002 Aspirators Bottles

Aspirator Bottles are made of Polypropylene and are therefore much lighter than glass. These are autoclavable, durable & dependable. The leak proof spigot screwed to the bottle body requires only a half turn to open or close. These bottles are used for storing or dispensing distilled water & other laboratory solutions. Threads should be totally disengaged before autoclaving Capacity 5 Liter, 10 Liter & 20 Liter

AI 1002

AI 1001

AI 1003 Autoclave

Polished deep drawn Aluminum with safety valve and control for obtaining 35, 70 or 105K_N /m². Working pressures reinforced heat – resistance handles and heavy machined base, may heated by gas or electricity. Dimensions approximately 220x240mm, internal height X diameter.



AI 1003



AI 1004 Autoclave, Electrically Heated Portable

Die cast body or high – tensile –strength aluminum fitted with safety valve pressure controller adjustable to 70 or 05kn/m² (10 or 15 ib/in²), pressure gauge and draw- off cock. A siphon tube allows the contents to be dried after sterilization by removing steam and water, thus producing a vacuum of 380 torr on cooling. Diameter 290mm x depth 250mm. Loading 1850 W for use on 220-volt 50Hz.

AI 1004

AI 1005 Air Pump

Cast Metal with metal valves. Complete with stopcock and fitted on nicely polished wooden base Metal Plate diameter 150mm



AI 1005

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AI 1006 Air Track Linear

Triangular section Aluminium alloy track, length 255cm with staggered air holes at 25mm spacing approx, supported by two light alloy casting positioned 45cm from each end of the track. Each support has an adjustable knurled screw with fiducially rivet to facilitate track setting, one revolution corresponding to a height difference of 1.25mm Lateral and horizontal adjustable are made separately at the two and one point support respectively. V- Slots are incorporated for positioning the four faced scaling rule. Vertical holes accommodate a quick action shutter with an integral cable release for use in stroboscope photography. Large catapult arms with slots for elastic bands are fitted to each end of the track. A pulley fitted to one end of the track enables experiments involving acceleration under a constant force to be investigated. Identical end caps enable air to be introduced from either end of the track, bung being supplied to close the end not being used. The knurled screw, catapult arms and pulley mountings are matt black finish to aid the interpretation of stroboscope photographs. Complete with supply of elastic bands.

Accessories Kit

Aluminium alloy vehicles have been carefully designed to attain the optimum eight of buffer attachments. Buffer attachments are located in holes 6.5mm diameter and clamped by screw at each end of the vehicle. A vertical 4mm diameter hole in the center of each vehicle enables the white plastic rod to be used to indicate the positions of vehicles on stroboscope photographs. Vertical slots in the top of the vehicles enable white cards to be positioned for photoelectric timing applications. The vehicles buffer attachment and clamping screw are finished in matt black to the interpretation stroboscopic photographs

Kit Comprises

1. 2 Large vehicles mass 0.4 kg with any two buffer attachments
2. 1 small vehicle mass 0.2kg with any two buffer attachments
3. 2 Magnetic buffers, incorporating approx 20mm diameter magnets
4. 2 plasticine holders, 20mm diameter with central hole for loading plasticine
5. 4 Small catapults 25mm wide, with slots for elastic band/.
6. 3 steel buffers. With central hole and clamping screw
7. 4 elastic cords, with plastic ring at each end.
8. 1 reel of nylon thread
9. 2 White plastic rod 150x4mm, length x diameter
10. 18 needle, for use with steel buffer
11. 20 cards, plain white, postcard size
12. 1 Rubber stand, length 5 meter
13. 1 Pack of plasticine
14. 20 Spare elastic bands



AI 1006



AI 1007

AI 1007 Balance Double Beam Balance

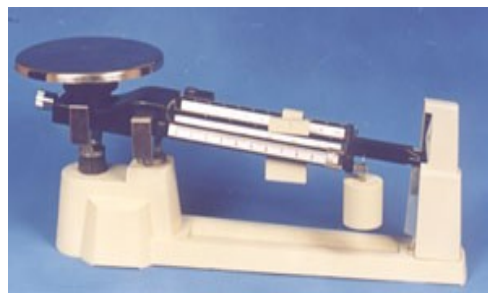
Two pan balance for accurate and rapid weighing up to 2 kg. The balance has two beams with centre reading sliding masses. These weigh up to 0-200gm x10gm, & 0-10 gm X0.1 gm, total 210gm; Supplementary masses extend the range to 2 kg. With spring loaded zero adjuster and magnetic damping, with stainless steel pans of 150 mm diameter.

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AI 1008 Balance Triple Beam

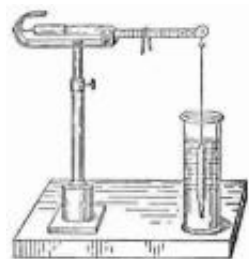
Single pan, total Capacity 2610gm (Using attachments weights) sensitive to 0.1gm. The three beams are each provided with a sliding weight and are graduated 0-500x100g, 0-100 x 10gm and 0-10x0.1gm respectively, permitting reading upto 610gm without the use of attachment weight. Magnetic damping of the beam provides quick accurate weighing, with stainless steel pan 150mm diameter.



AI 1008

Accessories

Attachment weights. Two 1 kg and one-500gm weights with stainless steel knife –edge suspension for attachments to suspension pivot on the beam, to increase the capacity of the valance up to 2610gm.



AI 1009 Balance Density

For use with any liquid to measure to 0.001 densities up to 2.0999; a thermo- meter in the glass plummet indicates temperature. Bearings are of agate and hardened steel. Complete in wood case with plummet and platinum wire suspension, five rider weights. Cylinder of about 60cm³ Capacity.

AI 1009

AI 1010 Balance Lever

Capacity 0-250gm, 0-1000g. For trial weighting, for animal weighing for post-mortem examinations and in school science, a balance is often required which reads directly in grams and has a capacity of up to 1 kg. The double –range lever balance is in effect two balances in one. The low range scale is graduated 0-250x1gm. And the high range scale 0-1000x5gm. Swinging the counter- weight to one of two positions makes the change from one range to other. The scale marked white on black is read by means of an anti parallax cursor Finished in gray with all bright parts nickel – plated. Dimensions, overall 450x525mm height X width



AI 1010



AI 1011

AI 1011 Balance Physical

With stone agate knife-edges, adjustable at any height with improved down ward playing pointer on wooden polished case. Capacity 250gm

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AI 1012 Student Balance

This balance is a basic general purpose balance for students. The hangers have double hooks for specific gravity experiments and the pans are detachable. The whole assembly is fitted on wooden base provided with leveling screw. Provided with agate knife edges and bearings. Pan diameter 10cm Sensitivity 2mg. Capacity 250gm, 500gm.



AI 1012



AI 1013

AI 1013 Analytical Balance

With Aluminum flat beam, nicely lacquered graduated in to 100 division with zero at centre. Provided with best- selected agates, ground to precision accuracy. Fitted in finely polished case with two side doors and counterpoised front side doors and counterpoised front side. Sub mica wooden base. Arrestment vertical raising type.

Capacity	200gm
Sensitivity	1/10- mg
Length of Beam	125mm
Diameter of Pan	75mm

AI 10014 Balance Analytical

Capacity 210 gm Large high resolution, backlit graphic display; ergonomic leveling system; AutoCal™; cursor keys for navigation through menu; one function per key; available with or without internal calibration; user selectable stability levels; user selectable filters; stability indicator; auto-zero tracking; RS232 bi-directional interface with selectable baud rates; weigh below capability; menu and calibration lock-out switch; factory reset option; spill gutter; removable draft shield doors.

Models are CSA certified to CSA 1010-1, UL 3101-1 and IEC 1010-1. FCC approved.



AI 10014

Optional Accessories

Modular display upgrade kit, auxiliary display kit, remote display kit, in-use display cover kit, security device, density determination kit, calibration masses, printer, RS232 interface cable, draft shield kit (0.01g & 0.1 g

AI 1015 Balance Laboratory

Beranger Pattern – open type with two brass pans.

Capacity available 1kg, 2 kg, 5 kg and 10 kg without weight.



AI 1015



AI 1016 Balance Spring

With screen-printed scale ad double hooks. Plastic/ metal body Gms ad Newton scale s combined. Capacity 100gm 250gm, 500gm 1000gm and 1newton, 2.5newton, 5 Newton and 10newton

AI 1016

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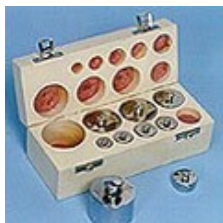
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AI 1017 Physical Weight Box

Superior brass chrome plated, accurate. Capacity 1mgm. To 100gm, 1mgm to 200gm, 1 mgm to 500gm and 1mg to 1000gm



AI 1017



AI 1018 Analytical Weight Box

Brass chrome plated velvet lined box nicely polished complete with forceps. Very accurate. Capacity 1mgm to 50gm and 1mgm to 100gm

AI 1018

AI 1019 Barometer Aneroid

Dial 100mm diameter, dual scale, range 940-1060mbxmb figured in black, and good quality movement mounted on hard wood/ plastic frame 165mm diameter, with glass in anodized bezel. With lug for rear mounting.



AI 1019



AI 1020 Barometer Demonstration Aneroid

All Parts visible with rubber bellow

AI 1020

AI 1021 Barometer Fortin Type

Dual scale, 660 - 810mm and 26-32 in. A good –quality instruments with Vernier scales reading to 0.05mm and 0.002in opel reflectors and adjustable cistern with white fiducially setting point; useful where the highest order of accuracy is not required with thermometer – 10°C to 50°C x1°C; on polished hard wood board. Bore of tube 6mm



AI 1021

AI 1022 Barometer Case

For barometer AI1021polished hardwood with glazed front ad side panels, with lock and key.



AI 1023

AI 1023 Basin Evaporating Porcelain

With spout, glazed inside and out side. Dimension 60, 75, 85,100,125 and 150mm

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AI 1024 Basin Aluminium

Hemispherical, with spout polished in side and outside Dimension 69, 90 100mm



and

AI 1024

AI 1025 Bunsen burner

Chrome plated brass tube of 12mm diameter with screwed air regulator, serrated tapered inlet tube with painted base 70mm diameter. One extra gas nipple.



AI 1025

**AI 1026 Burner Fish Tail**

Chrome plated brass tube with non-adjustable jet. On base with raffled gas inlet tube. One spare gas nipple is provided to use with LPG gas.

AI 1026

AI 1027 Burner Teclu

Chrome plated brass tube of 16mm, Dia with air regulator. Gives very high temperature. Overall height 15cm Base of cast Iron diameter 8cm. Approx supplied with one spare gas nipple to use with LPG Gas

AI 1028 Burner Meker with stopcock

Supplied with base with tapered raffled in let tube. Chrome plated burner tube has perforated steel plated on top and relatable air regulator around the jet Overall height 10mm



AI 1028

**AI 1029 Blow pipe Burner**

For glass blowing superior with 2 ejects on heavy base

AI 1029

AI 1030 Burner Spirit Glass

With glass Cap Wick and metal wick holder capacity 60ml, 125ml



AI 1030

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AI 1031 Burner Spirit brass

Brass with 6mm diameter woven wick in brass holder and brass screw on cap. Capacity approximately 100ml



AI 1031

AI 1032 Brush Test Tubes

Galvanised wire handle, head 45x10 mm with wool end.



AI 1032

AI 1033 Brush Burette, Bristle

Head 100x19mm diameter, galvanized iron wire handle overall length 750mm



AI

1033



AI 1034 Brush Flask Bristle

Galvanised wire head on rubber –covered stem with wood handle. Head 100x50mm, Length X diameter

AI 1034

AI 1035 Bottle Hot water Rubber

Standard –type rubber hot water bottle with screw cap.



AI



1035

AI 1036 Beehive Shelves

Stoneware, glazed inside and outside, for use with troughs for gas collection. Diameter 75mm and 100mm

AI 10036

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AI 1037 Bath Water Circular

Light- gauge anodized Aluminum/copper bath 200mm diameter X115mm deep, fitted with heat –resistance plastics feet and integral constant level water feed. Asset of Aluminium rings with a centre disc is provided. The 1000watts immersion heater incorporates a device. Which protects it against damage from boiling dry. Complete with connector plug and three-core cable for use on 220-volt AC supplies.



AI 1037

AI 1038 Boss Head

A light alloy pressure die casting with offset jaws, which ensure great strength. The V-grooves in the body are accurate and give a firm grip on rods up to 16mm diameter. The clamping Screw is of nickel –plated brass.



AI 1038

AI 1039 Bar & Gauge

Bar & Gauge, to show liner and super fical expansion



AI1039

AI 1040 Bar Breaking Apparatus

Comprising a heavy cost iron frame with slotted end pillars to carry a spout iron bar. The is threaded at one end for a large tensioning nut and got a hole at the other end to accommodate the cast iron breaking bars. The instrument is mount for experiment to show the forces, which can be exerted during thermal expansion or contraction with 12 bars.



AI 1040



AI 1041 Battery Charger

Output 2 Amps. Maximum at 2, 6 of 12 volt, in well ventilated metal case with nine-way control switch to enable the full charge rate to be maintained as the battery become charging and to compensate for mains voltage variation for use on 220 volts.

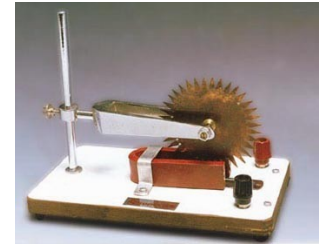
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AI 1042 Barlow 'Wheel

To Illustrate motion of a movable conductor carrying current in a magnetic field. A current of approx, 3 amps at 3-4 volts causes steady rotation of star shaped copper wheel. With electro magnet but without mercury.



AI 1042



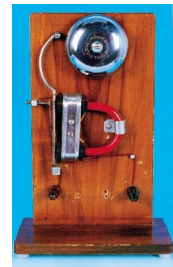
AI 1043 Bell Electric

In Bakelite case working on 4-6 volts D.C

AI 1043

AI 1044 Bell Electric Demonstration

All parts clearly visible works on 4-6 volts D.C fitted on wooden base



AI 1044



AI 1045 Blow pipe mouth

Nickel – Plated brass 200mm long

AI 1045

AI 1046 Bourdon gauge

For Measurement of actual (absolute) gaseous pressure. This apparatus is a laboratory demonstration version of the standard bourdon type of pressure gauge widely used in industries the instruments comprises a circular gauge having an overall diameter of 130mm. The dial read 0 to 100ib/in2 a MB 0 to 7kg/cm2 the gauge is carried upon a circular pillar 19x16mm diameter. A tubular 8mm diameter projects from the side of the pillar to provide connection apparatus is provided with a heavy cast iron base 106x91x35mm having four rubber feet.



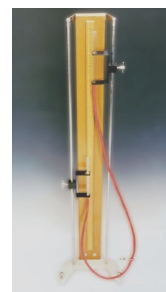
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AI 1047 Boyles law apparatus

Comprising two glass tubes, both approximately 220mm long x8mm inside diameter, one closed at the top and the other tube open. Their lower ends are connected together by 1 meter of rubber pressure tubing. Both tubes are mounted on sliding brackets, which may be locked in any position on the metal supporting rods. The stand is of polished wood, and carries a scale graduated from 0 to 100cm with millimeter divisions in the centre and figured every cm up either side.



AI 1047



AI 1008 Bucket cylinder

Made of brass, nickel-plated, 6cm long, over all length when extended to 16cm

AI 1048

AI 1049 Burette & Funnel stand

Hardwood base fitted with rubber feet. Clamp with lined jaws and funnel holder slotted for ease of entry fitted with screws, Base 33x11 cm total height 50cm



AI 1049



AI 1050 Burette stand

Hard wood, base fitted with rubber feet, clamps with lined jaws and fitted with screw. Total height 50cm

AI 1050

AI 1051 clip bulldog

Spring steel with flat jaw length 32mm and 50mm



AI 1051



AI 1052 Clip Mohr

Nickel-plated iron wire flat jaw with rounded edges, which do not damage tube with shaped finger grips

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AI 1053 Clip Bunsen Pipe

Nickel plated brass. With protection



AI 1053



AI 1054 Centrifuge machine hand

A single speed, hand –driven machine consisting of a substantial cast base enclosing a steel pinion and worm drive fitted with a ball thrust race. Two thumbscrews clamp the machine to the bench. The head of passed steel with captive trunion rings accommodates two 15 cm buckets. In gray enamel finish, with removable crank handle.

AI 1054

AI 1055 Cork borer

Nickel – Plated brass, variety of sizes of tube each with cutting edge at bottom and handle at top, set complete with clearing rod available in (a) set of 6 (b) Set of 12



AI 1055



AI 1056 Cork borer sharpener

For borer diameter 4 to 27mm plated metal cone with hinged cutter blade set in slot and wooden handle. Circular shape of borer maintained by cone. Edge cut to correct angle by depressing blade using thumb pressure button and rotating borer

AI 1056

AI 1057 Crocodile clip

With strong spring and clamping screw for wire the shank will accept 4mm plug



AI 1057

AI 1058 Constant level Trunk

Comprising a brass vessel 100x75mm diameter with three tubes with water inlet, outer tube and overflow with a boss head and stand

AI 1058

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AI 1059 Cubes metal

20mm set of 06, comprising brass, lead, copper, aluminum and zinc.



AI 1059



AI 1060 Cylindrical Magnets

Made of cobalt steel 12mm diameter, in pairs half red and half blue to indicate north & south poles with keepers, size (a) 50mm (b) 75mm (c) 100mm

AI 1060

AI 1001 Cork Boring Machine

With attachment hand operated with screw type shaft, which makes the boring of a hole in, cock effort less. Body is made of cast Iron pointer with attractive pale blue hammer tone. The machine is supplied with nine borer made of steel size 1/8" 3/16", 1/4": and 5/16" 3/8" 7/16" 1/2" 9/16" 11/16". On the right hand side of the vertical support just above the base a clamp is provided for holding the cork to any position is provided for holding the cork to any position. It is also supplied with a semi circular rack for holding 9 bores ejector for removing the rubber from the boxes.



AI 1061

AI 1062 Centrifuge Machine Electric

Electrically operated controlled with ten-speed rotary switch. Minimum vibration, max speed 3600 rpm. The body is a spun bowl and lid on a cast iron base with powder coated paint. The motor & controls are the motor & Controls are totally enclosed for safety with cord and plug. Swing out bucket heads accommodates 15ml centrifuge tube, which are recommended for the sediment to be deposited horizontally volumetric determination and serration of fluid. Complete with for bucket of 15ml capacity and four glass centrifuge tubes. Workable on 220 volts A.C, 50 Hz. Supply.



AI 1062



AI 1063 Carbon Electrode

Mounted in rubber stopper overall length 85mm in pair

AI 1064

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AI 1064 Centrifuge basket

For Laboratory use, consisting of steel chamber with stainless steel basket at 2mm per formation size 12x12” whole nit is mounted on stand with 1/4h.p motor.

AI 1065 Clinostat

To run 30 hrs in vertical or horizontal position to carry weight with clock movement fitted on a heavy metal stand



AI 1065



AI 1066 Concave Mirror

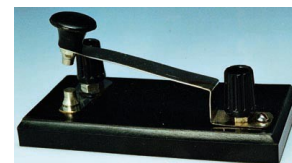
A) Optical worked, back silvered, with protective coating, diameter 50mm, Fl 75,100,150,200,250,300mm

B) Diameter 75mm Fl, 75,100,150,200,250- and 300mm.

AI 1066

AI 1067 Contact Key Single

Comprising a plated spring arm with press knob, a contact stud, plated connecting strip and 204mm socket terminals all mounted on a Bakelite base.



AI 1067

AI 1068 Convex mirror

Optically worked back silvered with protective coating

- a) Diameter 50mm, fl 75, 100,150,200,250 and 300
- b) Diameter 75mm, Fl 75, 100,150,200,250 and 300mm



AI 1068



AI 1069 Copper Volta Meter

Consisting of 3 copper plates suspended from a Bakelite cover in glass jar. The outer plate from anodes and the central line is cathode. The latter is so mounted that it may be taken out or put in to the holder without being touched by the fingers.

AI 1069

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AI 1070 Crucible Tong

Made of stainless steel with bow and forged scissors type hinge, Jaws corrugated in side (a) size 15cm (b) size 20cm



AI 1070



AI 1071 Crucible Lids Porcelain

Glazed inside and out side with ring handle

AI 1071

AI 1072 Calipers Venier

Made of best steel points for outside and inside measurements. Two venires and two graduated in mm and inches



AI 1072

AI 1073 Calipers Calorimeter Copper

Spun in one piece polished copper.

- A) diameter 75x50mm
- B) Height x diameter 100x75mm



AI 1073

AI 1074 Calorimeter

Consisting of an inner copper calorimeter (75x50mm) resting in outer Aluminium calorimeter. Provided with thermometer holder and stirrer.



AI 1074



AI 1075 Joule's Calorimeter

It consists of a polished Aluminium calorimeter (100x75mm) placed in an outer wooden case. Fitted with Bakelite top with hole for thermometer. Two terminals connected to a heating coil (For current up to 2Amp) are fitted complete with stirrer but without there Thermometer.

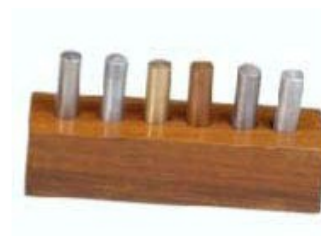
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AI 1076 Cylinder (Specific heat capacity Specimens)

Set of six metal cylinder, diameter 16mm mass 100gm Aluminium, brass, copper, iron, lead and zinc Mounted in wooden stand. Cylinders vary in length from 5cm to 19 cm and are drilled for suspension.



AI 1076



AI 1077 Calipers Circular

For in and out measurements made of plated steel,

AI 1077

AI 1078 Cell holder

Rectangular Molded plastic 172x142x40mm approx to hold 1.5-volt dry cells. A central black 4mm socket and for red 4mm sockets give 1.5,3,4.5,6 volt tapping.



AI1078



AI 1079 Clinostat Electric

It comprises a cork disc 100mm diameter with removable fitting to accommodate 18mm diameter specimen tube and clear plastic cover to provided cylinder cal chamber adjustable to any angle from vertical to horizontal. It revolves once every 15 minutes and is mounted on a heavy base fitted with electric motor and supplied complete with 1.5 meter 3

core cable.

AI 1079

AI 1080 Compound strip

Compound strip, brass and iron 30x2.5cm with wooden handle.



AI 1080



AI 1081 Condenser Aepinus

With two adjustable brass plate 10cm diameter and a glass dielectric plate held in a clamp. The handles are of insulated material and the apparatus is mounted on nicely polished wooden bass

AI 1081

AI 1082 Charless Law Apparatus

Glass U Tube 15mm diameter, with one plain limb 22cm long and one graduated limb length 12cm. Limb graduated 25-35mlX0.2ml terminating in a bulb with third limb 185x6mm (length x bore) jointed at right angles to the plane of the other two. Short length of rubber tube with two pinch clips on short length of glass tubing mounted in the end of wide bore tube with rubber cork with tall from barker and stirrer.



AI 1082

AI 1083 Conductors

Made of brass interchangeable on an insulated stand. Sphere 5cm diameter, cylinder 12.5 cm (Length X max diameter)

AI 1084 Conductor spherical

Brass Sphere 5cm, diameter, mounted on insulated stand



AI 1085 Conductor cylindrical

Brass cylinder 12.5 x5cm (length x diameter) on insulated stand

AI 1085



AI 1086 Conical Conductor

Brass cone 10x5 cm (Length x Max. Diameter) on insulated stand)

AI 1086



AI 1087

AI 1087 Cell Danial

Comprises a copper vessel 150x100mm height in to a diameter with terminal and perforated shelf, Thick zinc rod with brass terminal and porous pot and cover complete

AI 1088 Cell Lechance's

Packed porous pot and zinc rod with terminal, in glass vessel. Capacity 1-liter approx supplied without chemicals.



AI 1088



AI 1089 Simple cell

Copper and zinc plates, fitted with terminals and a glass jar of size 15x10 cm approx

AI 1089



AI 1090 Copper plate

Copper plated with terminals size 15x5cm

AI 1090

AI 1091 Decade Capacitance box four dial

Dial type of high- grade paper condenser of compensated value and quick – change dial knob, putting in succession each condenser in case dace. Housed in a teak wood case with engraved bakelite top accuracy +/- 1% maximum 400 volt working (0.001, 10x 0.01 10x0.1 and 10x1.0) total cap.11.11mf.d.s



AI 1091

AI 1092 Decade Capacitance Box three dial

Same as cat No 91 with the following combinations:

- a) 10x0.01.10x0.01 and 10x0.1 total ape 0.11m.f.d.s
- b) 10x0.01.10x0.1 and 10x1.0 total cap 1.1 m.f.d.s



AI 1092

AI 1093 Decade Capacitance Box two dial

Same as cat no 92 But with the following combinations

- a) 10x0.001 total cap. 0.01m.f.d.s
- b) 10x0.01 total cap 0.1m.f.d.s.
- c) 10x0.1 total cap. 1.0m.f.d.s
- d) 10x1.0 total cap 10.0m.f.d.s

AI 1093 Decade Capacitance Box single dial

Same as cat no 93. But the following combinations;

- a) 10x0.001 total cap. 0.01m.f.d.s
- b) 10x0.01 total cap .01m.f.d.s
- c) 10x0.1 total cap. 1.0 m .f. d .s
- d) 10x1.0 total cap. 10.0m.f.d.s



AI 1095 Deflection Magnetometer

Comprising a stout Bakelite box 100mm diameter with Aluminium diameter. Graduated in 0.90 four times ant parallax mirror slot and replaceable steel pivot. The short magnetic needle has a jewel bearing and a light Aluminium pointer designed for precise reading and maximum damping. One meter long single piece wooden nicely polished base with embedded 2 half meter scale reading from the centre of compass box (magneto- meter) i.e. zero at centre of both the scales, with compass box Bakelite or Aluminium and leveling screw.



AI 1095

AI 1096 Demonstration meter

A demonstration meter and may be converted to an AC / Dc voltmeter or ammeter with selection of ranges. For each mode of operated by using one of a services of interchangeable dials which fit through a slot in the side of the case. The movement comprising a high grade-moving coil, galvanometer is housed with in a robust, and all the working parts clearly visible. The scales are marked on both sides of each dial. A zero adjuster permits instruments to be used for centre zero working. Size 320x140x365mm



AI 1096

AI 1097 Demountable Transformer

It consists of laminated U & I Cores of low loss magnetic. Material, to form a closed core of cross section 25mm in plan of laminations, 32mm. U core external height 102mm, internal height to take bobbin length 787mm. Cast Aluminium alloy stand consisting of a heavy base on four rubber feet with two removable clamping arm. Maximum dimension of base 190x2990x115mm across full width. Arms pivot on steel spindle with adjustment to knobs to knobs to rear

- a) 1 Coil of 300 turns of 220 volts AC
- b) 1 Coil of 600 turns of 220 volts AC
- c) 1 Coil of 1200 turns for 220 volts AC
- d) 1 Coil of 3600 turns for 220 volt AC
- e) 1 Coil of 12000 turns for 220 volts AC



AI 1097

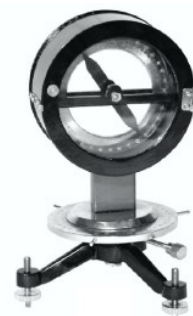
AI 1098 Dessicator Cabinet

Made of thick gauge Aluminium sheet as glass door sealed with rubber gasket for general laboratory working. Dimension 20x30x35cm



AI 1099 Dip Circular

Cobalt steel magnetic needle strongly magnetized rolls, on knife –edges. The needle can be readily removed for reversal when not in use the movement of needle is stopped by a screw. The vertical scale is graduated in degrees, divided up in four equal quadrants, each ranging from 0 to 90°C. The case is made of Aluminium with glass on both sides and hinged door and a sensitive circular spirit level on the top. It rotates on a metallic tripod fitted with leveling screw. The lower graduated circle is divided in to 360° and is read by Vernier to 0.01 degree



AI 1099

AI 1100 Dip needle

The Instruments comprises a circular scale of 785mm diameter, 0.90° four times, supported on a rectangular base. The needle is care fully balanced on steel pivots working in bearings, over all height 100mm approx.



AI 1100

AI 1101 Displacement vessel

With overflow for conducting specific gravity experiments size vessel 115x50mm approx.



AI 1101

AI 1102 Dissecting board

Selected soft wood in one piece. Pin can be easily pressed with the help of hand only. The frame

AI 1103 Dissecting dishes

Steel sheet rectangular with flanged edge. Complete with wax. The dish bottom size 300x250mm length width and height 65mm



AI 1103

AI 1104 Dissecting block

Soft base with cork face for pinning out small specimens size 150x75mm

AI 1105 Dissecting Dishes aluminium

Made from Aluminium sheet. Rectangular, with flanges edges/. Complete with wax.
Bottom, length x width x depth

- a) 250x200x60mm
- b) 300x250x75mm



AI 1105

AI 1106 Dissecting pin

Stout steel spike, length 55mm, with large wood handle for ease of insertion in to dissecting board.



AI 1107

AI 1107 Dissecting Set

Biological Instruments set consisting of 13 Instruments for accurate dissection. The instruments housed in a highly polished with velvet lined wooden box. Contains following items Scissors 2 Nos, Forceps 2 Nos, magnifying glass 1Nos., Chain & Hook 1 Nos., Blowpipe 1. Nos .

AI 1108 Dynamic trolley

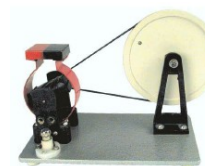
For investigating momentum velocity acceleration etc. The trolley consist of a rectangular wooden body carried upon three low friction wheels and in supplied with one strong spring plunger and three dowel pegs.



AI 1108

AI 1109 Dynmo

Motor ad shocking coil. Mounted on wooden base with driving wheel. With selector switch for demonstrating as ADC or A.C dynmo or D.C Motor. With bulb and holder.



AI 1109

AI 1110 Demonstration Transformer

The primary coil is of 220/230 volts and two interchangeable secondary coils give an output at 6 and 12 volts at 2 amps. Assembly of the transformer and interchanging of coil can be done quickly. Complete with 2meter cord plug connections.



AI 1110

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AI 1111 Electric motor Demonstration

A Model of Demonstration Motor having 3 armature, 2 pole, 3 pole & 4 pole wound with enameled copper wire and a permanent magnetic field provided by a removable U shape magnet. The construction of the model is completely open and all components are easily observable. The motor operated on 4.6 to 9volts D.C



AI 1111



AI 1112 Electroscope Pith balls

For detecting the pressure of electrostatic changes, comprises a pair of 2 pith balls sphere suspended by cloth thread from wire frame stand.

AI 1112

AI 1113 Engine Model Petrol 2 strokes

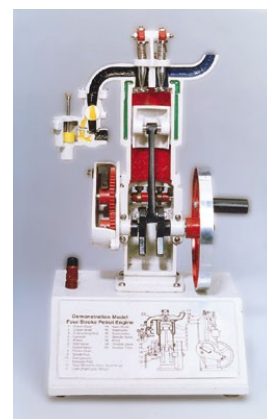
An air- cooled cut way hand operated demonstration model is with a cylinder head fitted with an igniter. A control plate, which wipes a contact at a proper interval at every stroke, thus turning on the lamp to represent the explosion. The contact plate can be moved to show the effect of advancing and spark retarding. The rigid cast model is complete with carburetor and is approximately 40cm high fitted vertically on approx 20-x25cm heavy metal wooden base.



AI 1113

AI 1114 Engine model Ppetrol four Strokes

The cut way model demonstrates the action of four –cycle air –cooled petrol engine. The cylinder head carries suction and exhaust bulb is provided to indicate the point of ignition. The model is complete with cams, gears, contact plate and carburetor. The model is about 40cm high with all metallic parts fitted on approx 25x25cm heavy metal/ wooden base.



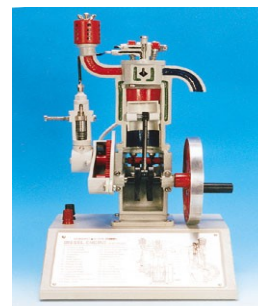
AI 1114

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AI 1115 Engine Model Diesel

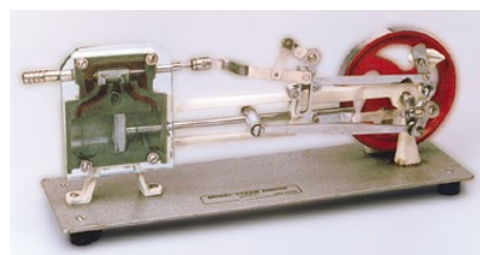
The cut way model demonstration the action of four cycle. Diesel engine. The cylinder head has three-valve air admission exhaust and fuel valve (injection) working with cams and levers, which are in turn driven by gears operated by a flywheel with handle. The well- finished models is a about 40 cm high and fitted on heavy wooden base of approx 25x25 cm. It is complete with spur gears, cams and fuel pump.



AI 1115

AI 1116 Engine Model Steam (demonstration)

At all metallic and an amazing working model cylinder is section cut and covered with a glass plate. Complete with working parts. Piston valve, link motion and reversing method can also be observed Movement is light enough to demonstration working even by blowing with mouth. Steam chest and piston are made of cast brass



AI 1116

AI 1117 Engine Model Steam with Boiler

It is a working model of steam engine. It is provided with a safety valve, inspection window, whistle and throttle valve working on voltage 220 volt Ac 50 Hz



AI 1117



AI 1118 Expansions Liquid Apparatus

For demonstrating the different thermal expansions of various liquid, comprising 5 bulbs tubes with plastic scale mounted in a frame and supported and supported in a GI sheet water trough and to cross members, the lower cross member having holes and the upper tubes to locate the bulb tubes in bungs complete with 35mm diameter bulbs and 15mm cm scales.

AI 1118

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AI 1119 Filter Pump

Open construction, Made of Brass rifled in let nozzles glass valve in vacuum nozzles prevents sucking back internal jets constructed to prevent flooding at the outlet tube and the out let tube is bent to acid turbulence and give repaid exhaustion



AI 1119 **AI 1120 Flask Tong**

Made of steel chrome plated with asbestos lined rectangular jaws giving a firm grip to flask.



AI 1121 Fly wheel

About 20cm in diameter by 44 mm wide, turned and carefully balanced, mounted on a horizontal shaft held in bell bearings. The wheel is marked and pointer is fixed to the brackets. The brackets have 4 holes and can be fixed to the wall also.

AI 1120



AI 1122 Forceps Artery

Stainless Steel, mosquito, screw joint straight length 130mm approx

AI 1121



AI 1123 Flow Cup Viscometer

For measuring viscosity range approximate, designed for strip lacquers for measuring the relative consistency during the manufacturer and use of paints varnishes, lacquers and other various products. Every flow cup viscometer complete with stand.

AI 1122



AI1123

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AI 1124 Forceps Blunt Ends

Made of stainless steel with blunt ends Length

- a) 110mm
- b) 130mm



AI 1124

AI 1125 Forceps Entomological

Stainless steel with curved and flattened ends



AI 1125

AI 1126 Forceps Pointed

Made of stainless steel with pointed ends length

- a) 110mm
- b) 130mm



AI 1126

AI 1127 Funnel stand

Hard wood, base fitted with rubber feet. Holder with slot for case of funnel entry and fitted with screw.

- a) Single Base 20x11cm
- b) Double Base 33x11cm



AI 1127

AI 1128 Glass block Semis Circular

Made from Indian/ Belgium glass bubble less faces nicely polished size 100x12mm diameter x Thickness.



AI 1128

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AI 1129 Gold leaf Electroscope

METAL Pattern Brass rod with disc fitted in a wooden/metal case with glass front



AI 1129

AI 1130 G Clamp

Malleable iron frame with square cut thread-clamping board, swivel head on board, adapts itself any angle of grip. Max Opening of clamp.

- a) 50mm
- b) 75mm
- c) 100mm
- d) 150mm



AI 1130

AI 1131 Galvanometer D.C

Moving Coil with jewel bearing flush mounting in Bakelite case of 65 mm diameter with wire leads terminals at back. Complete with Bakelite stand with 4mm socket terminals. Accuracy +/- 2.5 F.S.D. Range

- a) 25-0-25
- b) 30-0-30
- c) 35-0-35 or any common range



AI 1131

AI 1132 Glass slabs / blocks

Made from Acrylic/ Belgium bobbles less slightly greenish all sides polished ground edges. Size 75x50x12mm, 75x50x18mm, 100x50x18mm, 100x60x18mm, 115x65x18mm, and 125x65x18mm. From Indian Glass mounted size 100x60x25mm, 75x50x18mm

AI 1132



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AI 1133 Galvanometer Ballistic

For measurement of small quantities of electrical charge reflecting mirror type mode. The moving coil is suspended by a phosphor bronze strip, which carries an optically true concave mirror. The coil can be raised or lowered or set to zero by an adjusting knurled knob at the top a knob at the back is provided for clamping and releasing the coil. A link high resistance is provided to make the galvanometer periodic, if desired, leveling screws are provided for balancing the coil.

	Res. of coil	Period	Sensitivity
a)	100 Ohms	10-12 Sec.	180mm
b)	500 Ohms	10-12 sec.	400mm



AI 1133

AI 1134 Geometrical Model & figures

Consists of sixteen pieces of various geometrical shaped models and figures. Models of hard wood in wooden box.



AI 1134

AI 1135 Hare's apparatus

For clamping the densities by measuring the heights of the 2 columns of liquid produced by applying suction to the short centre limb. Hare's apparatus is consisting of a limb tube, the centre limb fitted with rubber tubing and Mohr clip, and the 2 outer connected to glass tubes. Complete with rubber tube and pinch clip.



AI 1135

AI 1136 Heating Blocking

Made of Aluminium cylinder 60mm diameter X38mm height with three recesses in top 12.5,14 and 22mm diameter 28,21 and 9mm deep respectively with asbestos pad at bottom, Block mounted on three legs. Overall height 170mm

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AI 1136 Heating Mantle Single

The Mantles are made to accommodate several sizes of round bottom flask in a mantle of each size to provide uniform heating bigger sizes of mantles have two or three heating circuits so that upper circuits could be switched off when smaller size flask is being heated or when liquid level drops, Three mortised mantle have heating surface knitted. They provided a maximum surface temperature of 450°C Working on 230 volts AC single phase

Size	Capacity	Wattage
1	50ml	60
2	100ml	60
3	250ml	150
4	500ml	200
5	100ml	300
6	2000ml	450
7	3000ml	450
8	5000ml	600



AI 1136

AI 1137 Hope 's Apparatus

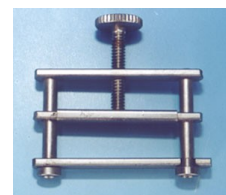
Inner cylinder 25x5cm (height x diameter) mounted on a base encircled midway along its length by a gallery 6x10cm (height X diameter) made of sheeting sheet nicely painted. With out thermometer.



AI1137

AI 1138 Hoff 's Man Screw Clip

Brass nickel plated with screw and hinged bottom bar for direct fitting and removal without access to ends of tubes.



AI 1138

AI 1139 Hydrometer Nicolson

For conducting experiments of solid and liquid density with hollow metal flotation body, upper loading pan and weighted lower loading pan brass chrome plated

AI 1139



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AI 1140 Hydrometer Universal

A direct reading relative density hydrometer of stream lined form with parallel bulb. All glasses overall length 370mm approx.



AI 1140

AI 1141 Hot Plate Round

Round 200mm diameter single electrically operated. Complete with three heat rotary switch. Plug and cord.

- a) Same as above with double plated of 200mm diameter



AI 1141

AI 1142 Hot plate rectangular

For Laboratory use with heavy coated top. Two lights red and green indicating load and main control switch. Complete with plug and cord.

- a) 12x10" (300x250mm)
- b) 16x10" (400x250mm)
- c) 18x12" (450x300mm)
- d) 24x18" (600x450mm)



HE 1142

AI 1143 Hook Law 's App.

Consists have a mirror scale 12cm long and support, a spring weight holder supplied without slotted weight.

AI 1143



AI 1144 Hydrometer Battery

For testing specific gravity of battery acids, with syringes.



AI 1144

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AI 1145 Hydrometer

For light liquids, specific gravity 700 to 1000



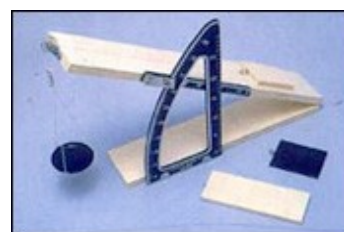
AI 1146 Hygrometer Wet & Dry bulb **AI 1145**

With metal scale fitted on wooden board range from -10°C to 50°C

AI 1146

AI 1147 Inclined Planers

Comprising of two wooden boards, $60 \times 7.5 \text{ cm}$ wide. One forming the base and the other hinged at one end. With grooves cut and block to alter angle up to 45° Complete with one friction less pulley metallic roller and scale pan.



AI 1147

AI 1148 Inclined Plan

The apparatus has a stable iron base $45 \times 15 \text{ cm}$ hinged to wooden strips $48 \times 6 \text{ cm}$ separated by about 2 cm rigidly jointed at ends by metal cross pieces on the upper surface which serve as stops for the carriage, Aluminum pulley 5 cm diameter well balanced, is attached to a clamp passing through an extension of one side of the plane The pulley is adjustable at any angle and is inline with the centre of the gap divided the parts of the plane. A San Aluminium centimeter scale is fixed to the edge of the plane and a combined. Angular and liner scale is screwed to the base with a positive clamp. This also serves as an index



AI 1148

AI 1149 Ingenhause Apparatus

Made of stout tin sheet, nicely painted with handle and 5 rods of different metals.



AI 1149

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AI 1150 Interia Balance kit

A class demonstration kit for comparison of masses and to aid understanding of the terms 'Mass' and 'Weight'. A platform is supported on spring steel strips, which is made to oscillate in the horizontal plane under various loads. Two aluminum trays 130x50mm, held approximately 200mm apart on spring steel strips attached to their sides. One tray has holes to take three equal mass cylinders, approximately 100x25mm, length x diameter, Three support pins to fit radial holes in cylinders.



AI 1150

AI 1151 Induction Coils

These coils are built with high insulation between the sections of the secondary and with a very reliable circuit breaker fitted with silver contacts. The condenser is fitted within the base. Separate terminals for primary and secondary coils are given. The sparking needles is provided with insulated handles. These units are also fitted with reversing Switches.



AI 1151

Spark in mms.

- a) 5mm without reversing switch
- b) 10mm
- c) 15mm
- d) 20mm
- e) 25mm with reversing switch
- f) 50mm
- g) 100mm

AI 1152 Induced Current Apparatus

Consisting of primary coil of insulated copper wire wound upon cylinder with terminals, secondary coil wound upon cylinder in to which primary fits. A soft iron core fits the cylinder of the primary. Complete with terminals.



AI 1152

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AI 1153 Incubators Bacteriological

Double walled with 65mm glass wool insulation, entire construction of Aluminium/stainless steel with inside anodized. Finished in oven baked white cream enamel. Double walled glass door. Covered heaters placed under ribs at bottom and sides to ensure equal distribution of heat. Temperature control through a bimetal systems ad mercury switch. Range of temperature from 30 C to 100 C accuracy +/- 0.5C or better. Built in thermometer. Dial readings approximate. Panel with two switches, two indication lights and thermostat dial and a provision for timer supplied with two perforated Aluminium shelves cord and plug



AI 1153

AI 1154 Incubators BOD

Designed for low temperature incubation and routine determination of Bio –chemical oxygen demand (BOD) this unit is composed for triple walled chamber with a thick layer of fine glass wool to prevent loss of heat. For lower temperature work a cooling unit is provided at the lower prevent of the working chamber and heating arrangement has been made in the inner chamber for work at higher temperature. The temperature various form 5 °C to 50 °C adjustable at any the variation of +/- 1°C. Air Circulation fan has been provided to keep the temperature uniform inside the chamber. Inner chamber is fabricated form thick aluminum anodized shelves are provided. Digital controller com indicator and indicating lamps are located on the instrument for easy handling and visibility. Complete with automatic internal light , connecting card & plug to work on 220 to 230 volt AC 50 Hz ,

Chamber Dimensions

825x500x415mm

865x565x565mm

900x650x575mm



AI 1154

AI 1155 Jockey Safety knife

Specially designed for the protection of galvanometer by introducing a high resistance, which may be shorted out. Consists of a plated brass knife –edge. Sliding against a spring in an insulation pipe with a high resistance with terminal at the upper end. .



AI 1155

AI 1156 Accumulators 2volt 20 ah

Storage type 2 volt for steady discharged of currents. Supplied in polystyrene containers with marked positive terminals and charging instructions. Supplied uncharged without acid.

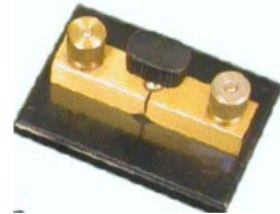
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AI 1157 Keys Plug One Way

Plug one –way two-brass block fitted on a Bakelite base and one plug is provided to make contact. Two terminals are also provided on block for out-put.



tapered
the brass

AI 1157

AI 1158 Keys Plug Two Ways

Plug two ways, two –brass lock fitted on a Bakelite base. And one tapered plug is provided to make contact. Two terminals are also provided on the brass block for output.



AI 1158

AI 1159 Keys three way

Plug three ways, two brasses Block fitted on a Bakelite base and one tapered plug is provided to make contact. Two terminals are also provided on the brass block for output

AI 1160 Keys four Way

Used for making or breaking one, two, three or all the four circuits at a time.

AI 1161 Keys Tapping Single Contacts

Used for sudden make or break of electrics. Brass strip with insulated knob and terminals mounted on a Bakelite plate of high insulation.
Contact resistance: 2- milliohms approx. Maximum current; 5 amps
Dimensions L x B x H 130x50x40mm. s



AI 1161

AI 1162 Keys Tapping Double Contacts

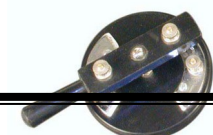
Used for sudden make or break of two electric circuits at a time. Two strips and four terminals mounted on a Bakelite plate of high insulation.
Contact Resistance: 2 milli ohms approx
Maximum current: 5 amps
Dimensions: L X B X H 130 X90 X40MM

AI 1163 Keys Charger & Discharge

Used for clamping and discharging a capacitor. Nickel-plated brass strip sand pillars. The upper contact is adjustable. Three terminals for connections. Fitted on a Bakelite plate.

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AI 1164 Keys Reversing

The reversing key has laminated phosphor bronze brushes, which ensures good contact. Brushes mounted on an insulating handle, which is mounted with a steel paring on thick. Bakelite plate of high insulation. Contact resistance 2 milliohms approx. Maximum cur10 Amps

AI 1164

AI 1165 Kinetic Theory Modal Kit

The kit consists of a 7.5cm square section Perspex tube of height 38mm terminated at the lower end by a stretched rubber diaphragm and at the upper end by a loose fitting cover. There are two foamed polystyrene pistons and a large number of phosphor bronze spheres, which are approximately 0.3cm in diameter. The vibrator unit consist of a 9 volt D.C Motor and a vibrator mounted on a wooden base with 4mm socket terminals. The model is used to demonstrate.

- 1) The random motion of gas molecules
- 2) Thinning of the atmosphere with height.
- 3) Brownian motion
- 4) Boyles Law



AI 1165

AI 1166 Kit Elastic Pressure

Kit comprises 2 paper, bourdon gauge, 16 large syringes 16 interconnected pairs of syringes of unequal cross sectional area, 8 U- tube manometer mounted with a 0 to 400mm scale on a back board 1U tube manometer approximately 1.3m high 2 U Tubes. Approximate 2.44m high mounted on a folding backboard, 1 Mounted U tube with limbs of unequal cross section area, approximately 610mm high (stand bases may be used to support backboards0 also included are a bottle of 125ml methyl. 1 Orange for colorings water, 2 barometer tubes of inter diameter 3mm and 8mm, 1 tube open both ends. 22xmmx4mm length x inter diameter 1 mercury trough, 1 funnel and 32 mouth pieces.



AI 1166

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AI 1167 Kit Laboratory Tool

A set of small hand tools carefully selected for general laboratory use. All tools are of good quality and are suitable for the servicing and adjustment of Instruments and equipment and are contained in a handy roll. The set comprises one each of the following: -

- 1 Electrician's pliers 50mm
- 2 Taper one pliers 140mm
- 3 Side cutting pliers 125mm
- 4 Set of Allen keys 1/32 to 5/32
- 5 Electrician's Screwdriver 100mm
- 6 Electrician's Screwdriver 65mm
- 7 Watchmaker's screwdriver
- 8 Screwdriver 100mm
- 9 Forceps, blunt ended 125mm
- 10 Steel rule 150mm
- 11 Wire Stripper



AI 1167

AI 1168 Kjeldahl Micro Heating Stand

Electrically heated to hold six 30 cc cap. Digestion flask stove enameled base fitted with heater for six flasks. Individual ON/OFF switch of each heater. Spring clips are provided for supporting the vapour tube, Supplied with vapour tube but without flasks 220 volts A.C



AI 1170 Kjeldahl Micro Heating Stand

Same as above, but with six energy regulators to control temp of each heater .

AI 1168

AI 1171 Kjeldahl (Electrically Heated)

Kjeldahl assembly for digestion & distillation for six determinations. Electrically heated complete unit consists of

- a) Distillation stand, stove enameled steel tubes
- b) Six unit electric heater separate off/on switch with each heater, asbestos cement top, with six holes
- c) Condenser rack with arrangement for holding six condensers
- d) Digestion support, mild steel, stove enameled, adjustable to the six-unit heater. supply without glass parts and without lead duct.

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AI 1172 Knife Switch

Single Pole, double throw-ob Bakelite base approximately 100x15mm , for panel mounting



AI 1172

AI 1173 Knife Switch

Double pole, double throw. On Bakelite base approximately 100x38mm for panel mounting

AI 1173

AI 1174 Lens Double Convex

Spherical Optically worked highly polished and ground edges. Diameter 38mm

Focal Length 5,10,15,20,25,30,50 and 100Cm

Diameter 50mm

Focal Length 5, 10,15,20,25,30,50, and 100 cm

Diameter 75mm

Focal length 10,15,20,25 30,50 and 100Cm

Diameter 100mm

Focal Length 10.15,20,25,30.40,50 and 100cm



AI 1174

AI 1175 Lens Double Concave

Spherical Optically worked highly polished and ground edges. Diameter 38mm

Focal Length 5,10,15,20,25,30,50 and 100Cm

Diameter 50mm

Focal Length 5, 10,15,20,25,30,50, and 100 cm

Diameter 75mm

Focal length 10,15,20,25 30,50 and 100Cm

Diameter 100mm

Focal Length 10.15,20,25,30.40,50 and 100cm



AI 1175

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AI 1176 Leslie Cube



Tinplate box with 130mm sides. The top opening is of 75mm diameter and is fitted with a lid. The apparatus is filled with water maintained at boiling point by a low bunsen flame. Infra-red sensors may be used to compare the relative radiant heat output from each of the four faces which are, respectively, blackened, roughened, varnished and polished.

AI 1176



AI 1177 Lenses Set of Six

Diameter 38mm and 50mm with ground and polished edges and faces , comprises of 1 each of the follows double convex. Plano convex, converging concave convex , double concave , Plano concave , Diverging concave convex supplied in velvet lined case.

AI 1177

AI 1178 Lens Holder

Mounted base, with V slot to hold lenses up to 80mm diameter, made of wooden/metal , nicely polished



AI 1178

AI 1179 Leyden Jar

With removable internal and external coatings, maximum Height diameter 10x7cm, Inner metal coating in the form of inverted cup to which a rod is fixed.



AI 1179

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AI 1080 Magdeburg Hemispheres

To demonstrate the pressure of atmosphere. Made of Brass fitted with stopcock and handle



AI 1181 Magnifier Lens

Brass Frame and Iron/ bakelite handle duly bright chrome plated in card board boxes.

Type	Lens dia	Focal Length	Magnification
1	40mm	100mm	3.5
2	50mm	150mm	2.5
3	63mm	200mm	2.25
4	63mm	150mm	2.5
5	75mm	200mm	2.5
6	75mm	150mm	2.25
7	100mm	200mm	2.5
8	100mm	150mm	2.25
9	150mm	300mm	1.83



AI 1181

AI 1182 Magnet Horse Show

With keepers strong length 2.5cm, 7.5cm, 100cm



AI 1182

AI 1183 Magnet U shaped

Magnetized Alnico block, red pointed, attached to cadmium plated and passivated parallel mild steel pole pieces. Each pole piece having a hole for attachment of auxiliary pole piece.



AI 1183

AI 1183

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**AI 1184 Magnet bar**

With Keepers, Powerful and polished. Size 50mm, 75mm and 100mm

AI 1184

AI 1185 Magnetic needle

For Magnetic needle, with plastic base 72mm diameter approx and 6mm diameter pillar supporting on steel needle pivot. Overall height of stands 100mm approx.



AI 1185

AI 1186 Magnetic Compass

In this compass the accurately balances needle is provided working on a hard red steel pivot. The unit is mounted in an Aluminium case with glass top and bottom diameter 20mm



AI 1186

AI 1187 Magnitometer deflection

It consists of a compass box. Fitted on a polished teak wood base of special construction to avoid warping, with hard wood millimeter scale. Removable compass box without magnet.



AI 1187

AI 1188 Meter Bridge

With 4 coil gaps, nickel led brass strips and connecting pieces, with 4mm socket terminals, fitted on wooden base. Wooden scale graduated 0-100 cmX1mm, with knife edge Jockey



AI 1188

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AI 1189 Meter Scale



Made out of superior quality of seasoned hard wood. One edges divided into centimeters and Millimeters, while the other edge in inches and tenths of an inch. One meter long.

AI 1189

AI 1190 Micrometer Screw Gauge

Made of Brass body with ratchet stop, stainless steel rod with scale of 0 to 25mm, pitch 1mm, packed in velvet – lined box. Size available 0-50mm, 0.75mm, 0-100mm.



AI 1190

AI 1191 Microscope Traveling

Fitted on a vertical carriage, can be clamped in a Vertical or horizontal plane, Index marks given to indicate true horizontal of vertical plane of the microscope, 8X Ramsden eyepiece, cross line reticule, achromatic objective, working distance 50mm rack and pinion focusing. Slides along specially designed vertical gun metal bar fitted on the horizontal carriage, which slides on the top of the base. Fine motion screw provided for finer adjustments both for horizontal and vertical movements. Horizontal and vertical scales graduated on automatic dividing machine, divided in half millimeter on nickel silver strips, fitted with vernier reading to .01mm or .02mm reading lenses provided.



AI 1191

AI 1192 Microscope Dessecting (student modal)

Having a stable base, this model is equipped with a joint revolving arm for moving the magnifying lens over full range of stage. The stage provided with spring stage clips. Has an easily removable thick glass plate with arrangement for inserting white or black plate for respective background. Metallic hand rests are provided for easy working and the reflection is obtained from a Plano – concave mirror in focus. The Microscope can be focused by smooth rack and pinion.



AI 1192

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AI 1193 Microscope Dessecting (delux Modal)

Heavy rod base with a beautifully designed body, provided convenience for easy lifting and movement. Sensitive focusing is done by rack and pinion



moving in a precisely lapped dovetailed guide way with a stopper to limit the downward movement of the stage. A joint revolving are is provided for moving magnifying lens over full area of stage. It is easily replaceable by a special bull eye lens 80 mm diameter to increase the field of vision. A Plano-concave mirror in fork for light reflection, sturdy removable hand test and arrangements for light reflection, sturdy removable hand rests and arrangements for inserting white of black plate for respective background help easy working on the instrument. Optics 10x & 20 X eyepiece and a special bull eye lens 80mm diameter. Object stage size 100mm x 100mm. The instrument has a paint finish and instrument a chromium finish and is packed in a study wooden carrying cabinet with provision for placing the hand rests bull eye lens and the magnifying glass.

AI 1193

AI 1194 Microscope projection

A standard student microscope with built in transformer (solid state) base with continuously variable light control. A 100mm dia. Projection screen attachment has been provided to achieve projection for group viewing of slide image. Illumination by 12V 20W halogen bulb. Achromatic Objective: 10x, 45x Hug. Eyepiece: 10x, 15x Magnification: 100x to 675x.



AI 1194

AI 1195 Microscope Student

With separate coarse and fine motion knobs having stopper for safety of slides with triple revolving nose piece and well designed body having rack and pinion of condenser unit N.A 1.25 with iris diaphragm and Plano – concave mirror 50mm diameter for natural light. Complete with following optics in wooden cabinet with lock ad key or available in Styrofoam case.

Eye Pieces: 10X (wide Field) and H15X
 Objective: 5X 10X and 40/45X
 Total Magnification: 50X, 675X



AI 1195

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AI 1196 Microscope Medical

Sturdy well balance stand with horse shoe base inclinable up to 90° with triple revolving nose pieces, separate coarse and highly sensitive graduated fine motion reading to 0.002mm, having stopper for safety of slides.

Fitted with sub –stage condenser Na 1.25 & Iris diaphragm moving up and down with rack and pinion diaphragm moving up and down with rack and pinion arrangement. Complete



with detachable graduated mechanical stage and Plano—concave mirror 50mm diameter for natural light and following optics in plywood cabinet with lock and key or available is Styrofoam case.

Eye Pieces H5X or J! 0X or H15X
10 X (wide Field) (any 2 Nos)
Objectives 10x, 40/45 X and 100X Oil Immersion.
Total Magnification 50X, 1500X

AI 1196

AI 1197 Medical/ pathological Microscope

A straight monocular research microscope designed equipped with study rack & pinion motion and sensitive fine motion reading to 0.02 mm. Sub stage Abbe condenser (N.A.1.25) movable on rack and pinion, Complete with detachable mechanical stage with following optics including WF 1) X (Wide field) eyepiece to provide 40% large field of view as compared to microscope. The microscope as under as under is supplied complete in thermo Cole packing case.



AI 1197

AI 1198 Microscope Research

Rectangular well- balanced base with fixed body having inclined eyepiece tube 120x120mm stage with iris diaphragm, filter support moving up and down with rack and pinion arrangement. Focusing by separate knobs. Quadruple nosepiece with highly precision indexing for smooth and accurate centering. Can be provided with a built in illuminator or a Plano – concave mirror. Packed in wooden cabinet with lock and key or in Styrofoam packing as per requirement

Objective X10N.A 0.25
(Achromatic) X45 N.A 0.65
X 100 N.A 1.30 SL
Eyepiece X 10 and any of 5x, 6X, 7X
(Huygen) X12 and X15
Magnification Between X50 to X1500 with Optional.



AI 1198

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AI 1199 Research Inclined Monocular Microscope

(Wide Field) with built in halogen illumination (6V-20W) a unique research inclined microscope equipped with ball bearing mounted quadruple nose piece, built in graduated co-axial mechanical stage manipulation and highly sensitive fine focusing reading 0.002mm coarse motion having universal adjustable locking device and supplied with straight tube for micro photography. Supplied with optics and imported 100x oil immersion. Eye pieces (2 Nos 0 H5x or H15X and KW 10x (wide Field)



AI 1199

AI 1200 Microscope Binocular

Heaving quadruple revolving, Nose piece, detachable graduated mechanical stage with binocular head (assembled from prism) highly sensitive fine focusing reading to .002 mm with rack and pinion motion of condenser unit N.A 1.25 Iris diaphragm and straight tube for photographically with Plano-concave mirror 50mm diameter for natural light replaceable with sub stage lamp. The above microscope can also be supplied with base built in light arrangement having special condenser unit for light centering 12V –21 W lamps with variable light control transformer. Complete with following optical

Eye pieces H5/6 X, 10X (wide Field) Two Pairs)
Objective 10x, 45X & 100 X Oil Immersion



AI 1200

AI 1201 Research Binocular Microscope

A unique wide field Binocular research Microscope with high resolution binocular head (assembled from Superior prisms) having inter papillary adjustment, bell bearing mounted quadruple nose piece, built up co- axial mechanical stage, both sides graduated for slide manipulation coarse motion with universal locking device and highly sensitive fine focusing reading to 0.002 mm. Complete with straight tube for chromatography. Supplied with optics and imported 100x oil immersion.

Eye piece: 2 pair –H5X or HX15X & HKW 10 X (wide Field)
Objective: 5X, 10X, 45X, and 100X oil immersion (Spring mount)



AI 1201

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AI 1202 Microscope Stereo Binocular

The instrument is Comprising of most compact and light weight sturdy base fitted with fixed eyepiece 10X, fine focusing by rack and pinion motion provided with a round interchangeable milky or transparent glass plate having fixed objective 3X. Adjustment of inter papillary distance 50mm to 75mm working distance 50mm. Complete in plywood cabinet with lock and key



AI 1202

AI 1203 Stereoscope Binocular

Specially designed for industrial ad research application. Suppliers with pole type stand and extension pillar to accommodate large size objectives for examination . Supplied with one fixed objective and one pair of high eye-point wide field eyepiece as under

Eyepiece: HWF 10X or 15 X or 20X (High eye point wide field)

Fixed objectives (1 set) working dist. 1X or 2x106 mm or 3x79mm or 4x61mm

Field of view 23mm under 10X and 2.6mm under 80X magnification. Magn.

Range 10X to 80 X (depending upon combination of eye- piece & objective used).

Complete as above in plywood storing cabinet. Please specify the combination of eyepiece and objective.



AI 1203

AI 1204 Zoom Stereo Binocular Microscope

Binocular viewing microscope body inter pupillary distance : 55-75mm

Objective : Zoom 1x-4x, Working distance 82mm

Eyepiece : SWF 10x/23

Transmitted Light : 110V or 220V/12V 10 W T-H lamp

Incident Light : 110V or 220V/12V 10W T-H lamp with reflector

Feature :

Up-right and sharp image with high resolution

Main body 360° rotatable

Zoom ratio 1:4

Optional accessories :

Trinocular viewing microscope body.

Photo attachment and video attachment

Auxiliary objective 0.5X, 0.75X, 1.5X, 2X

Eyepiece WF5X, WF15X, WF20X.



AI 1204

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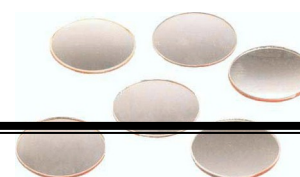
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**AI 1205 Mirror Strip**

Mirror strip size 7.5x2.5 cm, 15x2.5cm 10x7.5cm



AI 1205

AI 1206 Mirror Convex

Optically worked back silvered, with protective coating

a) Diameter 50mm, Fl 75,100,150,200,250,300mm

b) Diameter 75mm Fl 75,100,150,200,250,300mm

AI 1207 Mirror Concave

AI 1206

Optically worked back silvered, with protective coating

a) Diameter 50mm, Fl 75,100,150,200,250,300mm

b) Diameter 75mm, Fl 75,100,150,200,250,300mm

AI 1208 Micro tome Junior Rotary

For cutting thin section of histopathology specimens and for plastic, rubber, leather, tea extile ad fertilizer industries. It stands on a heavy cast iron base to ensure rigidity and stability. The base plate is supported by shock absorbing rubber feet. The housing affords effective protection to the mechanism against dust and paraffin wax etc. The Micro tome is driven by a handle, which can be mechanically operated crank can be adjusted from 1 micron to 25 microns in steps 1 micron each by means of knurled knob on the front of the instrument. The efficient ball and socket clamp renders. It possible to interchange specimen's clamp and paraffin stage with a single motion. The knife work is equipped of backward with handle.

Technical feature:

Feed adjustment 1.25 microns (in steps of 1 micron)

Opening of object stage 29x24mm

Over length 260mm

Accessories:

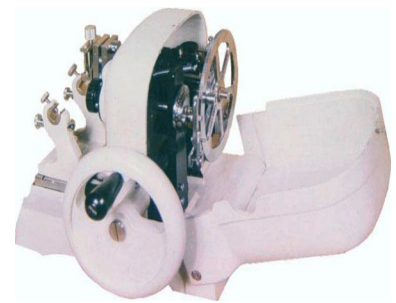
Three object holders

One Knife 120mm with back and handle

One honing Plate

One Oil can for lubrication

One knife holder tightening key.



AI 1208

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AI 1209 Muffle Furnace

The outer casting is made from heavy gauge angle iron and mild steel sheet. Heating elements of best quality. Nickel chromium alloy wound on the muffle, embedded in high grade refractory cement are backed by high grade refractory cement are backed by high temperature insulating bricks to prolong the life of the muffle for constant use. Survic energy regulator regulates the temperature and two jewel lights indicate the working. Excess temperatures silver fuse M.P 950° C is also provided with the unit. Electrically operated on 230volts single phase, 50 cycles. Maximum temperature 1000 C

Depth	Width	Height
200mm	x75mm	x 75mm
225mm	x100mm	x100mm
250mm	x125mm	x125mm
300mm	x125mm	x100mm
300mm	x150mm	x150mm



AI 1209

AI 1210 Magnetic Stirrer

A Compact stirring device utilizing a rotating field of a magnet to induce variable speed, stirring action within either closed or open vessels. Stirring action within either closed or open vessels. Stirring is accomplished by means of small rotor sealed in alkali or acid resistant polythene which is placed in the liquid to be stirred and is capable of rotation by a magnetic field applied from below the container. The speed can be varied with a rheostat from a gentle slow movement to vigorous agitation. A permanent U- shaped magnet is attached to shaft of a rheostat- controlled electric motor and is mounted in steel housing having Aluminum top. Any type of laboratory vessel of glass or non –magnetic metal can be use. It is suitable for stirring liquids, quantity Of which may vary from small amounts to about on liter, The steel housing is mounted on rubber feet and has a power cord for use with 220volts 50 Hz.



AI 1210

AI 1211 Laboratory Stirrer

Fitted with fractioned H.P heavy-duty motor suitable for operation on 270 volts Ac. The stirrer is fitted on a chromium plated centre rod with a heavy cast iron base. The height as well as the angle of the stirrer can be adjusted according to the requirement. The stainless steel stirring rod is fitted with specially designed chuck to give smooth and noiseless operation. The speed can be regulated up to 400 rpm. With a specially designed regulator.

HE 1211



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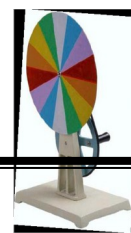


AI 1212 Melting Point Apparatus

Suitable for single or mixed melting point up to 360°C. Aluminium block three holes for capillaries and one hole for thermometer with cooling plug



AI 1212



AI 1213 Newton 's Colours Disc

Diameter of plate 20cm. Mounted on stand with turning wheel and handle.

AI 1213

AI 1214 Newton Rings Apparatus

Consist of a Plano convex lens of 63mm diameter and 100cm focal length placed on a circular on a circular plane glass plate of equal diameter. Both enclosed in frame with three compression screws for proper contact between lens and the plate.



AI 1214

AI 1215 Oersted's Apparatus

To show action of the electrical current on a magnet, Magnetic needle 75mm long with brass bearing supported by pivot mounted on wooden base and surrounded by a rectangles copper/ Brass rods fitted with terminals.



AI 1215

AI 1216 Optical Bench

Simple pattern , comprising wooden base board with a one meter scale graduated in millimeter fixed along the front edge and complete with 8 riders 2 lens holders, candle holder , pin hole plate , wire gauge ,Screen , Ground glass Screen , Prism table, Needle , all on polished wooden base with index mark.



AI 1216

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AI 1217 Optical Bench Research

One Meter log for advanced work consists of 2 rods. One stainless steel and chrome plated steel the stainless steel is divided in mm. These are supported on heavy cast iron feet with leveling screws. For special designed metal slides having a fine index mark enable rereading to betaken on the scale with easy and accuracy the slides are machined metal so they slide accurately & smoothly on the bed, Two of the slides are transverse slow motion



adjustment. Complete with 6 accessories, two lenses holders, two optical pins, one candle holder and one screen ground glass.

AI 1217

AI 1218 Organ pipes

Made of polished wood, open form, overall length 40cm



AI 1218

AI 1219 Oven Drying (Industrial)

Double walled heavy duty with forced air circulation thermostatically temperature range up to 250C, Accuracy ± 2 C to 3 C with two trays. Electrically operated single phase

Chamber Size:

- 1) 900x600x600mm
- 2) 1200x900x6900mm
- 3) 1500x900x900mm
- 4) 1800x1200x900mm



AI 1219

AI 1220 Vacuum Oven

Temperature range up to 130 c with accuracy ± 2 C . Capable of with standing vacuum of 760mm with Solid metallic door.

Inner Chamber: Made of aluminum without glass window 250x300mm

Made of Brass. Tin coated without glass window. 300x300mm



AI 1220

AI 1221 Pendulum Bobs

Brass sphere with hook Diameter

- 1) 13mm
- 2) 19mm



AI 1221

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AI 1222 Periscope

Consists of two glass mirrors inclined at 45 one at the top and the other at the bottom of a metal tube 50cm long ,with openings opposite the mirrors.



AI 1222

AI 1223 Pipette Stand

Wooden, polished, to hold 12 pipettes horizontally. Height 23cms, width 26cms, and depth 12 cms. (approx size)



AI 1223

AI 1224 Post Office Box Dial Type (Decade)

(Wheat stone bridge) These are provided with two ratio dials with 4 ratio of 1,10,100 and 1000ohms. The ratio coils of all bridges are selected so that their differences are even less than their inaccuracies of their actual values thus making the bridge a very accurate one. Series resistance is in 4 dials with 10coils in each dial. Two terminals are provided for using the terminals for battery and galvanometer.



AI 1224

AI 1225 Polarimeter Simple

This instrument designed to make an elementary study of optical activity substances. The polarimeter consists of two Polaroids, one of which acts as a polarizer and the other as an analyzer. Light is passed from the polarizer to the analyzer from a lamp which, if desired can be replaced by a simple reflector provided at the base which can be rotated to make use of daylight. If however, the lamp is to a 12 volts D.C or A.C supply using 4mm sockets is provided for the purpose. The movement of the analyzer can be measured with the help of a circular scale graduated in degrees.



AI 1225

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AI 1226 Polarimeter, Laurent's Half shade tube

Consist of two polaroids (One used as polarizer and the other as analyzer) Laurents half shade device and 200mm observation tube of glass, the polariser and the half shade device fixed at one end the angle of rotation can be measured accurately to 6 minutes of arc with the help of vernier scale rota



table along a circular scale graduated from 0 to 360 C . Fine motion tangent screw provided for finer adjustments complete with case.

AI 1226

AI 1227 Potentiometer

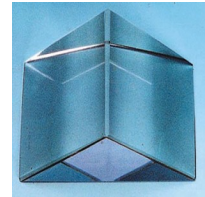
Consisting of wooden base with one wire 1 meter long connected to plated brass blocks. Fitted with 4mm socket terminals wooden scale graduated 0-100cm X 1mm with jockey.

AI 1228 Prism Equilateral

Made from extra white and molded glass size

- a) 38mm height
- b) 50mm height

1228

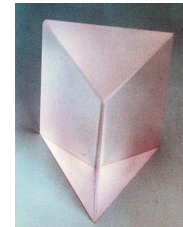


AI

AI 1229 Prism Right Angled

Made from white and molded glass 90x45x45 size

- a) 38mm height
- b) 50mm height



AI 1230 Prism Spectrometer

Optically worked for spectrometer, equilateral two faces polished,

Size:

- 1) 38x38mm ht.
- 2) 32x32mm ht
- 3) 25x25mm ht

AI 1230

AI 1231 Proof Plane

Consisting of an ebonite rod, with brass disc of 22-25mm diameter.



AI 1231

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AI 1232 Proof Sphere

Consisting of an ebonite rod with brass sphere of 18-20mm diameter .



AI 1232_

AI 1233 Pump lift all glass

All glass, colored visible valve UN mounted.



AI 1233

AI 1234 Lift Pump

Same as above but mounted on a nicely polished wooden stand. Without tank

AI 1235 Pump forces all glass.

All glass, colored visible valves, unmounted.

AI 1236 Pump Force

Same as above but mounted on a nicely polished wooden stand , without tank.



AI 1236

AI 1237 Pulley Rod Type

Aluminium pulley 38mm diameter mounted on a metal rod, 10mm diameter , and 150mm long



AI 1237

AI 1238 Pulley Inclined Plane Pattern

Aluminium pulley 22 mm diameter in metal bracket with mounting plate and fixing holes.



AI 1238

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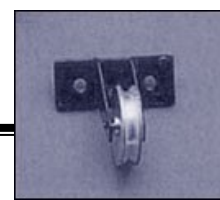


AI 1239 Pulley Clamp Pattern

Aluminium pulley 50mm diameter in metal frame for clamping to benches of board up to 25mm thickness.



AI 1239



AI 1240 Pulley Wall mounting

Aluminium pulley 38mm diameter in metal bracket with fixing holes.

AI 1240_

AI 1241 Pulley Differential

One piece triple pulley of aluminum with diameter of 38mm, 50mm and 62mm in frame with hook.

AI 1242 Pulleys

Made of aluminum accuracy centered, 50mm diameter.

- 1) Single pulley with hook
- 2) Single Pulley with 2 Hook
- 3) Double parallel pulley with 2 hook
- 4) Double long pulley with 2 hook
- 5) Triple parallel pulley with 2 hook
- 6) Triple long pulley with 2 hook



AI 1242

AI 1243 Radiometer Crookes

One set of vanes that rotate when placed sun light showing the mechanical effect of reflection and absorption of heat and light on the vanes surface. Complete with stand



AI 1243_

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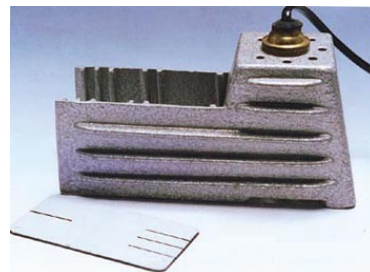
AI 1244 Rain gauge

Made of brass or copper durable, it has a 130mm funnel, an inner receiving vessel and outer body all of brass or copper and a glass/ plastic measuring cylinder, graduated 0 to 10mm in to 0.1mm.



AL 1245 Ray Box

A sheet Metal Lamp housing 155x70x55mm has an open front with extended sides finned extremely for heat dissipation and vertical internal slots to accommodate a slit plate and a cylinder cal lens. With metal plate single and triple slits and whitened on one side for use a returned image screen 12-volt lamp and a lamp holder. The triple slit used along with cylindrical biconvex lens (focal Length 75mm) produces divergent, parallel or convergent rays.



AL 1245

AI 1246 Ray Track apparatus

Ray track apparatus consist of a wooden board 40x28x1.2cm with white matt surface, carrying a circular scale divided in to four quadrants each 0-90° graduated are very 2° a removable turntable 17cm diameter with two lines at right angles and a ray box No JSS 260. Slots in the ray box can accommodate metal slits, colours filters, lenses etc. The ray box is fitted with a 12 volts lamp. Supplied complete with on cylindrical biconvex lens; focal Length 75mm and two double and triple slits, one side being whitened for use as a return image screen.



AI 1246

AI 1247 Resonance App.

A Pair of nickel-plated tuning fork, on individual resonance box to demonstrate beats. Complete with hammer.



AI 1247

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**AI 1248 Resistance Box Plug Type**

Interchangeable plugs and nicely fitted in wooden/ metal box and terminals for connections with infinity circuit.

Available in the following Ranges:

Constant wire, coils accuracy +/- 0.1%

Margining wire coils accuracy +/- 0.05%

Range No Of Total



In Ohms	Coil	Ohms
1-50	9	110
1-100	10	210
1-500	13	1110
1-1000	14	2110
1-5000	17	11110
1-10000	18	21110

AI 1248

0.1-10	10	21
0.1-100	14	211
0.1-1000	18	2111

AI 1249 Resistance Bridge Direct Reading

The Instrument has been designed to provide accurate and easy measurement of resistance. This is entirely self-contained having a dry battery and a galvanometer. The arrangement has been provide to use a high source of voltage for increasing the sensitivity of the bridge.

Total Range : 40 Milliohms

40 Milliohms to 500 milliohms

400 Milliohms to 5000 milliohms

4 Ohms to 50 Ohms

40 ohms to 500 ohms

400 ohms to 5000 ohms

4K.ohms to 50 K ohms



AI 1249

Accuracy; About 1% of the measured value or 1 division of slide wire. The bridge is built in to an Aluminium case. Battery and Galvanometer are simultaneously brought in to circuit by the push switch.

AI 1250 Resistance Coil

Resistance coil with non-inductive wound coil in a black Bakelite core with 2,4mm terminals, availability in different values.



AI 1250

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F-



AI 1251 Resistance Standard

These resistance in corporate the latest improvement s and carry comparatively large current without injury. Resistances below 0.1 ohms are constructed of manning sheet and higher resistance of double natural silk covered manning wire. All resistance is aged for fairly long periods.

Connection is silver soldered.

Accuracy : _



Up to 0.1 ohms 0.05%
 1 Ohms and above 0.05%
 Resistance in ohms 0.001, 0.01,0.1,1,10,100,1000

AI 1251

AI 1252 Retort Stand Boss Head

Made of Aluminium alloy. Two V groves in the body are accurate ad give affirm grip to retort stand, the chrome Plated thumbscrews fitted in the boss head.



AI 1252

AI 1253 Retort Stand

Sheet Iron, rectangular base with powder coated paint with hole 12.5mm diameter , M.S sheet rod chrome plated round and other end machine threaded washer and hexagonal nut.

Base size	Rod Length
175x100mm	500 mm
200x125mm	600mm
225x150mm	600mm
250x150mm	750mm
300x150mm	750mm



AI 1253

AI 1254 Retort Clamp

Made of M.S Sheet die pressed holds objects from 15mm to 65mm with cork-lined jaws, provides secure contact with side brass wing –nut adjustable. Sheet rod 145x7.5mm (length X diameter) all parts chrome plated without boss head.



AI 1254

AI 1255 Retort Clamp

For holding burette and other objects of up to 60 mm. Pressure dies cast, out of a light alloy. Cork lined jaws provided secure contact, with chrome plated brass Tommy bar ad Retort Clamp justing screw and Aluminium anodized stem 150x 8mm, length diameter. With out boss head.



AI 1255

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AI 1256 Retort Clamp Cross Pattern

Die cast, strong for holding objects 100mm, cork lined jaws. Provide secure contact, with planted brass Tommy bar adjusting screw and Aluminium anodized stem 150x8mm, length diameter without boss head.



AI 1257 Rheostats

Rheostats are wound with heavily oxidized iron free nickel copper wire on vitreous enameled round steel tube. Contacts are of laminated phosphor bronze sheet. Resistance tolerances are $\pm 2\%$ of the specified value. The marked current capacity is based on the tube being mounted vertically in free air with contacts operating at lower end of the hot portion of the winding or in case the current is passed intermittently. Should it be necessary to mount the tube horizontally or pass current for a long duration, the current should not exceed 75% of the marked value.



Range Tube length diameter 1-3/4" (44Cms)

	Amps	30Cm	35 Cm	40 Cm	45 Cm	50 Cm
1	8	4.5	5.5	6.5	7.5	8.5
2	6.5	7.5	9	10.5	12	13
3	5	11	13	15	18	20
4	4.2	20	24	28	32	36
5	3.3	27	33	38	44	50
6	2.8	37	45	52	60	67
7	2.3	57	70	80	90	100
8	1.8	92	110	128	148	165
9	1.6	125	150	176	200	225
10	1.4	160	180	220	250	290
11	1.2	225	270	315	355	395
12	1.0	290	350	405	460	515
13	0.8	400	480	560	640	720
14	0.6	670	800	930	1070	1200
15	0.5	1000	1200	1400	1600	1800

NOTE: Please send inquiries for Rheostat with perforated cover ad loading Rheostat

AI 1258 Ring & Ball

All apparatus for demonstrating thermal expansion comprising a captive brass ball secured to mount brass ring by Ball. The ring when cold but can not pass through after being heated.



AI 1258

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**AI 1259 Ripple Tank**

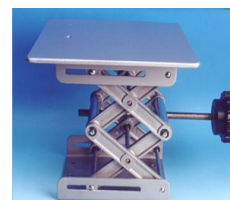
With wave generator and light source. The framework of the tank is made of seasoned material and is provided with four adjustable legs. The level of the tank can be set easily. The base is of glass plate. A parabolic reflector and lamp are adjustable for accurate adjustment. The wave generator works on volt current. Complete with a simple rheostat. Crocodile clip and complete working instructions.



AI 1259

AI 1260 Screw Jack

With wooden pulley of 12 cm diameter, fitted on wooden base, adjustable metal pulley and scale pan



AI 1260

AI 1261 Specific Gravity Bottles

Spherical pattern, adjusts Ted light brown glass natural Borosilicate with flat bottom and ground stopper Capacity 25ml & 50ml



AI 1261

AI 1261 Spectrometer Student

Telescope with achromatic object glass focal length 178mm 25 mm diameter 8X Ramsden eye piece with hair line graticule, Helical focusing, fine motion, tangent screw provided for fine adjustments of the telescope collimator achromatic object glass 178mm focal length and 25 mm diameter, adjustable slit at the other end of the collimator tube. Helical focusing. Prism table fitted with three spring loaded leveling screws, base integral with circular scale graduated in degrees from 0 to 360°. The position of the telescope is readable with the help of attached vernier scale reading to 6 minutes of an arc. Complete with prism clamp and grating holder.



AI 1261

AI 1262 Spherometer

Student grade with engine divided graduations. Legs and screw made of stainless steel. Spherometer; double disc, college grade with engine divided graduation legs and screw made of stainless steel.

- a) Screw pitch 1mm reading to 1/100mm
- b) Screw pitch 0.5 mm reading to 1/200mm



AI 1262

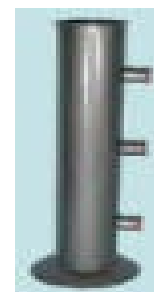
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AI 1263 Spouting Cylinder

For demonstrating the principle that the pressure increase with depth. Made of iron sheet, having three orifices of equal diameter at different heights.



AI 1263

AI 1264 Sprit Lamp metal Brass/Aluminium

Made of aluminum/ brass die pressed sheet, with woven wick in screw capped metal holder , capacity

- a) 60ml
- b) 125ml



AI 1264

AI 1265 Sprit Lamp Glass

With screwed wick holder, glass top cover capacity

- a) 60ml
- b) 125ml



AI 1265

AI 1266 Simple wheel and Axel

Two-wheel 150mm x75mm diameter formed from hardwood with flat bottom grooves. Supplied with metal axel and cord.



AI 1266

AI 1267 Steam Heater

Consists of a copper, vessel 18x 11.5 cm (height X diameter) heaving sliding tube of brass with ebonite handle. The material in the tube can be discharged instantly without any loss of heat , by simply tubing the handle . With out thermometer



AI 1267

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AI 1268 Steam Boilers

Fitted with inlet and outlet tubes, water gauge made of stout tine sheet .

Capacity

- a) 1000ml
- b) 2000ml



AI 1268

AI 1269 Scalpel Blade

Surgical quality steel blades for use with above handle. Supplied in metal foil blade no (a) 10 (b) 10A (c) 11 (D) 12 (e) 15 (f) 20 (g) 21 (h) 22 (i) 23 (j) 24 (K) 25



AI 1269

AI 1270 Scalpel Handles

Strong Stainless steel handles slotted to accept blades

- a) No 3 length 95mm
- b) No 4 Length 100mm



AI 1270

AI 1271 Scissors Curved

Fine points, open shanks, stainless steel. Overall length 110mm



AI 1271

AI 1271 Scissors Fine point

Very fine point for delicate work, closed shanks made of stainless overall length 100mm



AI 1271

AI 1272 Scissors Pointed Ends

Stainless steel, open shank length

- a) 110mm
- b) 150mm



AI 1272

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AI 1273 Scissors with Blunt ends

Made of stainless steel, closed shanks, over all length 125mm



AI 1273



AI 1274 Slide Box

Teak wood with hinged lid. Slides are held in numbered slots and an index is provided for listing of slides in side the lid, available in the capacity of 25 ,50 and 100 slides.

AI 1274

AI 1275 Slinky Springs

To illustrate wave motion size 75mm 100mm and 3meter.



AI 1275

AI 1276 Slotted Masses

This set comprise a 10gm wire hanger with nine slotted masses each of 10 gm giving a total mass of 100gm the design of the slots ensures that the masses may be easily removed and replaced. The weight of the hanger & the masses had been adjusted to with in +/-5%



AI 1276

AI 1277 Slotted Weight Brass

Slotted weight made of brass, 10gm, 20gm, 50gm 100gm and 200gm.



AI 1277

AI 1278 Socket for Banana Plugs

4mm molded hard plastic body threaded with fixing nut. Plated brass insert with solder pin. Requires 8mm diameter panel holes. Maximum panel thickness 12mm colour.a) Red, b) Black



AI 1278

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AI 1279 Sonometer

Wood resonance box with two-meter rules, one meter sub-divided in millimeter. One each brass & steel wire respectively, attached to fixed ridge and tension by fine adjustment pegs. Two moveable bridges, pulleys and fixed screw to enable a third wire to be fixed for tension by masses



AI 1280 Spatula

Round of square blades made from 18 swg stainless steel sheet polished, length approx 175mm

AI 1279



AI 1280

AI 1281 Spatula with Spoon end

One end flat, and other end spoon from polished

Length width :-

- a) 125x 18mm
- b) 150x18mm
- c) 280x18mm



AI 1281

AI 1282 Spot Galvanometer

For use as a null detector for potentiometer set up and bridges. Housed in Bakelite case with lamp and scale arrangement. Taut band type movement. Movement sufficiently protected against shocks. Alcomax magnet properly aged for high stability clamp and free arrangement for transportation. Scale 150mm long, easy replacement for lamp. Operated at mains 220 volts a.c. or 6 volts D.C band switch for 5 shunt power 1,1/10,1/100 and short circuit . Dimension over all 220x225x132mm approx.

Resistance 125ohms Period 2 sec.

Damping resistance 1000 ohms



AI 1282

AI 1283 Stop clock

Smith type, start, stop and fly back action, 100mm projected dial is machine printed. Entire assembly housed in metal case nicely finished. Reading 60 seconds and 60 minutes.

AI 1283



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AI 1284 Steam Trap

All glass overall length approx 160mm



AI

1284

AI 1285 Simple cell

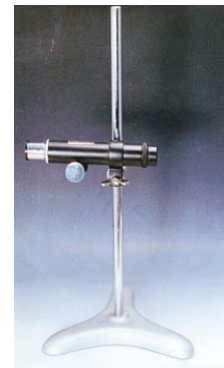
With copper and zinc plates fitted with terminals and a glass jar of size 15x10cm. Approximately



AI 1285

AI 1286 Telescope Reading

Achromatic object glass, focal length 178mm and 25mm clear aperture 8X remsdan eye piece, cross line graticule focusing by rack and pinion. Ranges from 1000 mm to infinity, carriage for telescopes with adjustable ring to stop abrupt falling fitted with screws for precise vertical and horizontal positioning scale holder provided stand 25mm diameter steel pillar 450mm long. Fitted on a heavy cast iron base with three leveling screws.



AI 1286

AI 1287 Test Sieves

Diameter 200mm frame is made from spun brass with out joint imported stainless steel clothes used for better performance and durability. Mess B.S.S 4-44,52-100,100-150,170-200,240-300,300-400.



AI 1287

AI 1288 Test Tube Stand Wooden

Made of seasoned hard wood, polished, single row with pegs holes 18mm diameter and 25 mm hole at each end.

- a) For 6 pegs and holes
- b) For 12 pegs and holes



AI

1288

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AI 1289 Test Tube Holder wire

Thick flat steel wire, chrome plated have thumb sliding device for opening and closing, with polished wooden handle.



AI 1289

AI 1290 Test tube holder wooden

Made of wood with steel spring for closing jaws to take tubes up to 19 mm diameter. Length of holder 185mm



AI 1290

AI 1291 Test Tube stand polythene

Made of polythene high density, the base size 210x82mm give stability. Can accept two tubes of 25mm diameter and four tubes of 16mm diameter. Six vertical pegs at the rear of the base ensure Quick drying of the tubes.



AI 1291

AI 1292 Test Tube Stand Aluminium

Made of thick aluminum sheet with three tiers anodized

- a) Available in 24 holes for 18mm diameter tube
- b) Available in 24 holes for 25mm diameter tube
- c) Available in 36 holes for 18mm diameter tube
- d) Available in 36 holes for 25mm diameter tube
- e) Available in 48 holes for 18mm diameter tube
- f) Available in 48 holes for 25mm diameter tube



AI 1292

AI 1293 Thermal Conductivity App.

Having copper rod of 12x1" size and fitted in disassemble teak wooden case lined with felt. Sockets are provided for the insertion of thermometer so that the temperature at two points along the rod and the points of entry and exit of the coolant can be taken. With out thermometer

AI 1294 Thermometer Max. & Minimum

Double scale range -10 to $+50$ °X1 C and -20 to 120 F x2F , red spirit filled mounted on screen printed scale on wooden nicely polished base



AI 1294

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AI 1295 Thermometer Platinum Resistance

Enclosed in a borosilicate glass tube of approximately 50cm long and 2cm diameter. A fine platinum wire is wound on mica frame. Its resistance is approximately 2.8 ohms. Two compensatory leads are connected to four terminals on a square block. The terminals are marked CL and PL to represent compensating and platinum leads.



AI 1296 Thermometer Wall

With C & F scale, wooden polished or plastic



AI

1296

AI 1297 Thermopile

It consists of 12 Pairs of bismuth and antimony bars joined together in series with insulation between them. The couples thus arranged are enclosed in a brass frame having two terminals connected to the bismuth and antimony poles. Complete with nickel plated brass cone and mounted on an adjustable stand.

AI 1298 Tripod Stand Round

Cast Iron top and mild steel legs. Top painted, legs are bent out wards for stability.

Size (diameter x Height)

- a) 125x150mm
- b) 125x200mm



AI 1298

AI 1299 Tripod Stand Triangular

Cast Iron top and mild steel legs painted, are bent out wards for stability

Size (top side X height)

- a) 100x150mm
- b) 125x150mm
- c) 100x200mm
- d) 125x200mm



AI 1299

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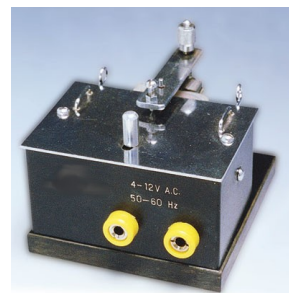
**AI 1300 Tuning Forks**

Nickel-plated with plain shanks, frequency marked C256, D 288, E320, F 34 1.3, G384, A426.6, B480, C512 Per set of 8 in a box



AI 1301 Ticker Tape timer

Operates on 12 volts A.C. the timer employs electromagnet, with spring loaded armature with vibrates above a support table for a carbon disc Paper tape ,drawn through guides on the table , is struck by a dotting screw carried on the armature . Additional with extra guides accommodate 4.5mm external diameter rubber tubing for the pearls in air, water drop experiment. The peg on the support table is moveable to allow maximum use of carbon paper discs. Supplied with 90-meter roll of tape and carbon discs. The ticker tape timer produces dots spaced at 1/50 or 1/60 intervals depending on main frequency.

**AI 1301****AI 1302 Tuning fork electrically maintained**

A heavy steel fork of about 60 vibrations per second is mounted on a heavy cast iron base. The electromagnet is adjustable so that the amplitude of vibration may be varied between wide limits . Complete with mirror for lissajou's figures experiments.

AI 1302**AI 1303 Tangent Galvanometer**

Aluminium tripod stand with leveling screws is fitted with Bakelite round plate. A brass cup holds the compass box which is fitted with anti -parallax mirror and jeweled needle. The entire can move around its axis.

AI 1303**AI 1304 Universal Clamp Holder**

Cross – parallel and T- clamp for attaching rod at any angle to a stand , maximum diameter 14mm , it is also suitable for holding flat discs with maximum thickness 13mm body is of aluminum casting and tightening knobs of mild steel.

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**AI 1305 U- Tube Apparatus**

Consisting of U –tube of glass fitted on graduated stand 50cm high



AI 1306 Vande Graff Electrostatic Generator

The charge is transferred from generator to the metallic dome, surrounding the upper pulley with the help of the motor driven rubber belt and two metallic combs.

To reach high voltage, the lower portion of the sphere is smoothly in turned. The machined has a plastic base and other insulating parts are made of Perspex, metal dome and the discharge sphere are polished.

Specifications

Motor	Operates on 20 volt A.C
Collecting	Rubber
Brushes	Metallic, non injurious to belt
Sphere	Aluminium 16.5 cm diameter

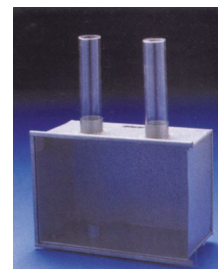
Voltage developed 250000 volts dust free atmospheric conditions corresponding to a spark discharge of 7 cm . Ear thing by earth lead of 3 core mains cable discharger 10cm , diameter sphere mounted on a metallic rod



AI1306

AI 1307 Ventilation App.

Consisting of a rectangular box of metal 22x10x16cm (length width x height) with sliding glass front and having two openings on top, over which glass chimneys are placed.



AI 1307

AI 1308 Volta meter Hoffman's

With 2 stop cocks and remove able platinum electrodes graduated limbs. Cap acity 50ml

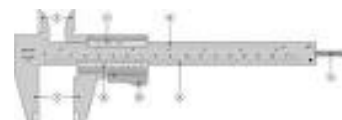
- Platinum electrode fused at the end of a glass tube pair
- Platinum electrodes m sealed in glass tube pair
- Carbon electrode, pair



AI 1308

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**AI 1309 Venier Caliper IME Type**

Made of steel, chrome plated, double scale metric graduated to 140mm, vernier reading 0 to 1mm. Inches scale graduated to 5.5 “ vernier reading 0.2 to 1.25 inches, sliding jaw with thumb mount for fine adjustment. IME type packed in velvet line box.

AI 1309

AI 1310 Voltmeter AC.

Moving coil with jewel bearing flush mounting in Bakelite case of 65mm diameter with wire lead terminals at back Accuracy +/- 2.5 F.S.D. Complete with bakelite stand with 4mm lock type bakelite terminals. Any range 1volt to 300



AI 1310

AI 1311 Voltmeter A.C/D.C

Moving coil with jewel bearing flush mounting in bakelite case of 65mm diameter with wire lead terminals at back. Accuracy +/- 2.5 F.S.D. complete with Bakelite stand with three 4mm socket terminals. Two range 0.5 volt, 0-15 volts. Or any other common range. Resistance 1000 Ohms



AI 1311

AI 1312 Voltmeter D.C Triple range

Moving coil with jewel bearing flush mounting in bakelite case of 65mm diameter with wire leads terminals at back measuring 110x100x110mm having a stopping front for glare free reading. Range 0-1 volt, 5-150 – 300 volts complete with Bakelite stand with four 4mm socket terminals. Resistance 1000 ohms

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AI 1312 Water Still

The main body of still is made of cost Stainless steel. The condenser tube is made stainless steel. A triple vapors baffle is provided to avoid splashing of water forming in



a recess in the automatically sealed by water forming in a recess in the head of the still in to which the flange of the lid rests. The water supplied to the still through the constant level arrangement also services to condense the steam in the condenser, thus the water is warmed up even before it reaches the container, where it is converted in to steam. The condenser tube can be dismantled without difficulty by removing the wing nuts. Which hold the end condenser jacket together. The still is fitted with immersion type elements, which are capable of displacing the connectors if the still runs dry. In case of burnt out elements, it can be easily replaced. The still is provided with a bracket. (to be fixed on wall) on which still can rest.

Capacity:

- a) 2 liter per hour with electric rating of 1.5 Kw at 220 –240 volts A.C
- b) 4 Liter per hours with electric rating of 3 Kw .At 220-240 volts AC.

AI 1312

AI 1313 Wave Machine Powell's

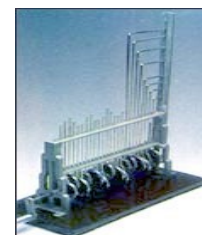
For demonstrating the movement of progressive transverse waves comprising 22 small belts on wire rods, With eccentric discs supporting a series of metal rods .On revolving the handle, transverse waves are obtained. Longitudinal waves are obtained with bent rods running in a metal guide.



AI 1313

AI 1314 Wave Apparatus Demonstration Model

For demonstrating longitudinal and transverse motions. Consisting of a number of eccentric discs supporting a series of metal rods. On revolving the handle, transverse waves are obtained. Longitudinal waves are obtained with bent rods running in a metal guide.

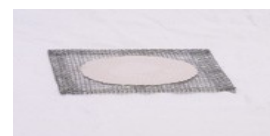


AI 1314

AI 1315 Wire Gauge Iron

For use on tripod s, flat gauze with asbestos fitted centre

- a) 125x125mm
- b) 150x150mm



AI 1315

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AI 1316 Wheel and Axle

Diameter of large wheel 150mm and of small 75mm made of wood with plated metal mounting pin.



AI 1317 Wheel and Axle

Cast aluminum block comprising of wheel 100mm diameter and axles 50mm and 25mm diameter (radii being in the ratio of 4:2:1 mounted on adjustable steel cones in steel frame fitted on wooden back board with four holes for wall mounting.



AI 1317

AI 1318 Wimshurst's Machine

With 2 plastic plates diameter 30cms, each carries aluminum foil segments. Maximum spark length 75mm. The neutralizing bars are provided. The capacity Leyden jars are incorporated which may be connected or disconnected as required. The complete apparatus is mounted on a wooden base with rubber feet dimensions 450x175x500mm length X width x height



AI 1318

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AI 1319 Worcester Circuit Board Kit



AI 1319

This kit allows the students to investigating the nature and properties of electricity using simple circuits easily constructed on a baseboard. Spring connectors are used to have different circuits for study.

- 1 1 Baseboard 35cm square with a matrix of metal peg terminals at 9 cm. Spacing and the battery holders mounted on a hard board. Pegs adjacent to battery holders are drilled to accept 4mm plug, with rubber feet.
- 2 20 Flash lamp bulbs, 1.25 volt, 0.25 Amp
- 3 3 Leak proof batteries 1.5 volts
- 4 10 Connectors with lamp holders
- 5 12 Ordinary connectors
- 6 1 connector with a rheostat of 25 ohms, 1 watt, wire wound
- 7 1 Silicon rectifier, 1 to 500mA, PIV 50 Volt
- 8 1 Resistor, 3,9 ohms, 5watt.
- 9 2 Flexible leads with 4mm plug and crocodile clip
- 10 2 Flexible leads with crocodile clip
- 11 2 Crocodile clips
- 12 2 Connectors with contact key
- 13 2 Soft Iron nails, length 5cm square head
- 14 1 Reel of 20 SWG, bare copper wire
- 15 1 Reel of 34 SWG, bare copper wire
- 16 1 Reel of 26 SWG, PVC covered copper wire
- 17 1 Electrode support disc, hard board, 75mm diameter with two holes 1 inch apart to take pencil electrodes when investigating the electrical conductivity of different liquids .
- 18 2 Pencil lead electrodes 100x2mm, length x diameter
- 19 1 Sheet of copper foil, to be cut into strips to make electrodes for copper plating experiments 15cm square
- 20 Packed of steel wool.

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