

## 01. ANALOGUE – UNIVERSAL TESTING MACHINES

- Mechanical Type Universal Testing Machines
- Electronic Type Universal Testing Machines



### Various Analogue Models

Loading accuracy well within  $\pm 1\%$  conforms to IS: 1828 / BS: 1610.  
Variety of tests like Tension, Compression, Transverse, etc. are conducted.  
Continuous roll autographic “Load Vs Elongation” recorder.  
Suitable for testing a wide range of metallic materials.

Extra (Optional) Accessories such as – Mechanical Extensometer, Load-Stabilizer, Attachments for Brinell test, Tensile test for shouldered & threaded, Single & Double shear test, Bolts-Nuts & Washer test, Rope test, Flat Belt test, Bend-Rebend test,  $180^\circ$  Bend test, Pull-Out test, etc. are available.

Capacities from 100 kN to 2000 kN.

## 02. IMPACT TESTING MACHINE



The pendulum Impact Tester, Model IT-30 is designed for conducting Izod, Charpy test. The test methods confirm to BS: 131: Part 4-1972 (Amended 15 Aug. 1993) BSEN: 10045-2: 1993 & ASTM: E-23-94a.

### Charpy Test:

The Charpy test piece rests on alloy steel support anvils, fitted on the base of the machine rigidly held in position by Allen screws. End stopper is provided for quickly and accurately locating the test piece centrally between the supports.

### Izod Test:

The Izod test is clamped vertically in Izod support fitted on the base of the machine. The support is provided with a machined vertical groove to suit the test piece size. The front clamp piece and the Allen screw enable clamping of the test piece in correct height with the help of Izod setting gauge supplied.

### Machine Operations:

- Pendulum is mounted on anti-friction bearings
- It has two starting positions - upper one for Charpy & the lower one for Izod testing
- On release, pendulum swings down to brake specimen
- The energy absorbed in doing so is measured as difference between the height of drop
  - before rupture & the height of rise after rupture of the test specimen
  - It is read from the maximum pointer position on the dial scale

### 03. HARDNESS TESTING MACHINE



Rockwell Hardness Testing Machines

Hardness Testing Machines Series [For Rockwell, Rockwell Superficial & Brinell Testing

Hardness Testing Machines for Rockwell, Rockwell Superficial & Rockwell cum Brinell Testing

Vickers Hardness Tester

Computerised Hardness Tester

Brinell Hardness Tester

Computerised Brinell Hardness Tester

Computerised Brinell Image Analysis System

Computerised Fully Automatic Brinell Hardness Testing Machines

Portable Hardness Tester

Poldi Hardness Tester

## 04. METALLURGICAL MICROSCOPE

The study of the physical structure and components of metals is termed as Metallography and is performed using microscopy. We are engaged in manufacturing and offering world class services for various Metallography equipment, that are made using best quality raw material and components.



## 05. ULTRASONIC TESTING MACHINE

Our organization is one of leading suppliers and service providers of high quality range of NON Destructive Testing Equipment (NDT). These instruments are made using advanced technology and are used to examine the internal integrity of metals, plastics and composite material.



## 06. MAGNETIC PARTICLE TESTING MACHINE

Magnetic crack Detector portable yoke Kit Type AC/DC Models



### Technical Specifications:

Type	: Portable
Dimension of carrying case	: L x W x H = 440 mmx 330 mm x125mm (approx)
Weight of Yoke	: 3.5 Kg (approx)
Weight of Complete Kit	: 6.2 Kg(approx)
Pole Spacing	: 0 to 300mm through articulated legs
Pole Face Area	: 25mm x 25mm
Power Supply	: 230 V $\pm$ 30 V, Single Phase, 50 Hz, 5 Amps A.C.
Input Current	: 2 Amps(max)
Magnetisation	: Longitudinal
Magnetic Field	: A.C.; Constant, H.W.D.C.; Variable
Flux Density	: Approx, 10600 lines of force/cm <sup>2</sup> at 100mm pole spacing
Controls	: i) Push Button On-Off for Operation : ii) Toggle Switch for A.C. / HWDC selection : iii) Potentiometer for Infinite Step(Step less) HW DC Field variation
Lifting Power	: a) H.W.D.C.: 28 Kg at 100 mm spacing b) A.C.: 5 Kg at 100 mm spacing
Duty Cycle	: 50% on 5 Minutes time cycle
Bump Test for Kit	: Withstands 40 g, 4000 bumps
Test Process	: Dry or Wet
Test Method	: Continuous or Residual
Test Technique	: Yoke Magnetization
Test Particles	: Visible, under white light Fluorescent, under Black Light
Application of Particles	: By Squeeze Bottle or Dry Powder Bulb
Demagnetization	: By A.C. Flux Reduction Method

### Supplied Along With the Following Accessories:

1. Dry Powder Bulb (with nozzle) containing
2. 150 gm of Grey Magnetic Powder
3. BHEL Test block

## 07. ULTRASONIC THICKNESS GAUGE



Ultrasonic thickness gauge made by our factory is a simple-to-use, highly accurate, hand-held ultrasonic thickness gauge with the operating principle of ultrasonic wave measuring. It can measure quickly, non-destructively and precisely with a resolution of 0.1mm or 0.01in. This instrument can be widely used in the fields such as manufacturing, metal processing, chemistry and [business](#) inspecting for measuring the thickness of all sorts of materials where ultrasonic wave can spread through with a constant speed and get the reflection from the back side. Apart from making accurate measure on various kinds of plates and processing components, it can also make detection on various kinds of pipes and pressure containers of the manufacturing facilities about their thickness loss after corrosion

## 08. UV INTENSITY METER



Digital Black Light Meter has digital readout of black light intensity in  $\text{mW}/\text{cm}^2$  and includes UV light meter, permanently affixed black light sensor, battery, and carrying case. Digital White Light Meter measures visible light by foot candles and lux, and includes UV light meter, permanently affixed white light sensor, battery, and carrying case.

## 09. LUX METER



The digital lux meter LX1010B can measure up to 50,000 lux, approximately 5,000 foot candles. It's used for checking the level of luminance, luminance is a measure of the amount of light falling on a surface. It is defined as: 'the density of the luminous flux incident on a surface'. It is the quotient of the luminous flux by the area of the surface when the latter is uniformly illuminated.. This convenient gadget is widely used in many areas such as construction, inspection, photography and etc.

Specifications:

Display: 3-1/2 digit 18mm LCD

Power: 9V battery

Ranges: 0 - 50,000 Lux

Accuracy:  $\pm 5\%$

Sampling rate: 0.4second

Operating temperature: 32-122 degrees F (0-50 degrees C)

Battery life: 200 hours (estimate)

Dimensions: 4.6x2.7x1.1 inch (118x70x29mm)

## 10. BLACK LIGHT KIT



Ultraviolet lamps use advanced Micro Discharge Light (MDL) technology, plus a unique filter and bulb/reflector, to deliver up to *10 times* the UV-A (365nm) output of conventional HID inspection lamps. With these lamps, NDT inspectors can see the smallest surface defects, hydrocarbon contamination and other flaws that escape less powerful lamps.

## 11. TABLE TOP CUT OFF MACHINE



We offer **Table Top Cut off Machine**. These are precision designed and manufacture using most advanced techniques and materials. , These machines are supplied with fully guarded models through transparent viewing of the cutting process.



## 12. POLISHING MACHINE



We manufacture a complete range of Metallurgical Consumables for our clients belonging to diverse industries. These are designed & manufactured under the supervision of our staff and are appreciated for optimum performance & longer service life.

### **Following is the list of our products:**

Levigated Polishing Alumina in Powder and paste form, Polishing Clothes, Emery Paper, Silicon Carbide water proof Paper and Aloxide Endless Emery Belts

Cold Setting Compound, Mould Release Spray and Diamond Lapping Compound in various Micron Sizes

Combustion Boats, Combustion Tubes and Silicon Carbide Heating Rods

Rockwell, Brinell, Vickers and Superficial Master Test Blocks for Hardness testers, Poldi Test Bars and Brinell Microscope

Abrasive & Diamond Impregnated cut off wheels, NML BCS, BAS Standard & Spectro Samples

Plastic Granules and Bakelite Powders

Diamond Indentor, Steel Balls and Tungsten Carbide Balls

### 13. CARBON & SULPHUR APPARATUS (C & S)



We manufacture and supply a wide range of Chemical Testing Equipment, which is applicable for testing the quality of chemicals. They are designed and fabricated from advanced methods and includes high grade components & material to provide exceptional services.

Carbon sulphur apparatus is used to detect percentage of Carbon and Sulphur in iron and steel. The scale of apparatus burette is directly calibrated in terms of carbon percentage. The apparatus can detect carbon percentage up to 4.5%. By using interchangeable burettes, the measurement can be taken to 0.25%, 0.5%, 1.5% and 4.5%. The apparatus furnace attains required temperature rapidly and a high accuracy digital pyrometer indicates the furnace temperature. The equipment can detect carbon or sulphur or both.

## 14. MUFFLE FURNACE



We are presenting an effective array of Muffle Furnace, which is provided by us in different shape and sizes. These furnaces are precision engineered following all the industry set guidelines. They include double walled construction for sturdy structure, while the inner side is developed of ceramic muffle that offers safety. We ensure our muffle furnace's high durability and provide it at unbeatable prices to our clients.

## 15. COATING THICKNESS GAUGE



Supplier & Manufacturer of Thickness Gauges & Coating Thickness Gauge. Our product range also comprises of Lab Testing Equipment, Non Destructive Testing Equipment and Metallurgical Instruments.