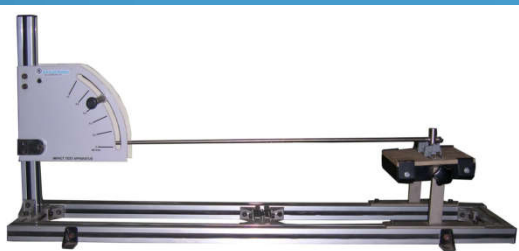




SCR ELEKTRONIKS

SALES PRESENTATION ON MECHANICAL TESTING EQUIPMENTS





LIST OF TEST EQUIPMENT

1. BALL PRESSURE TEST APPARATUS
2. TEST FINGER APPARATUS
3. SHOCK TEST APPARATUS
4. CORD GRIP TEST APPARATUS
5. IMPACT TEST APPARATUS
6. TUMBLING BARREL APPARATUS
7. SPRING IMPACT HAMMER



1. BALL PRESSURE TEST APPARATUS

- **What It Is?**

- The Ball Pressure Test Apparatus is used to check the integrity of dielectric material with respect to resistance to elevated operating temperature.
- The Ball Pressure Test Apparatus model BP 21 takes care of this testing useful for insulator manufacturers and other electro-technical manufacturers who use insulating material in their electrical appliances. The BP21 is made of stainless steel for long life.
- It is mentioned in standards IEC 60335, IEC 60695, IEC 60950, IEC 61010, IS 302, IS 1293, IS 3854, IS 2215, BS, UL

- **Models Available :**

- The product is designed as per the specifications and drawings in the relevant standard.



• Salient Features :

- All stainless steel construction.
- Magnifier with built-in scale for measuring the depression created by the ball pressure test apparatus.
- Supplied in a compact and neat carrying case.
- Precision engineered and manufactured for ball pressure test covering all popular standards.

• Basic Specifications :

- Ball diameter : 5 mm.
- Force exerted on sample : 20 n, + \ - 0.1 n.
- Material of construction : Stainless steel.
- Magnifier : X 10 magnification, 0.1 + mm
- Resolution : 0~10mm scale

- **Key Benefits :**

- The tester is used to assess the effect of ball pressure typically on insulator surfaces in a hot environment

- **Key Photos:**



Ball Pressure Test Apparatus

2. TEST FINGER APPARATUS

- What It Is?

- **SCR ELEKTRONIKS** Designs for the Test of the products non Accessible of live parts through shutters, when the plug is in partial with the product.
- **FLEXIBLE TEST FINGER** is applied in every possible positions of the Test Product. Assuming a live Finger.
- If there is a short then BUZZER will sound and the fault indicator will indicate the fault of the Test Product.
- It is mentioned in standards IEC 60669, IEC 60884 IS: 302 – 1979, IS 1293, IS 3854.

- Models Available :

- The product is designed as per the specifications and drawings in the relevant standard.



● Salient Features :

- Test Finger with spring loaded arrangement
- Flexible Test Finger
- Control Panel for Test Finger Apparatus

● Basic Specifications :

- Analog voltmeter for voltage Indication
- Probe - Flexible as per standard
- Product dimension - as per mentioned in standrds

- **Key Benefits :**

- The product is used to test switchgears, wiring accessories and domestic appliances against electric shock during human handling

- **Key Photos:**



Test Finger Apparatus



3. SHOCK TEST APPARATUS

- **What It Is?**

- SCR Elektronik make Shock test Apparatus is used to test the Electrical accessories / appliances for their mechanical strength.
- It is mentioned in standard IS 8828, IEC 60898.

- **Models Available :**

- The product is designed as per the specifications and drawings in the relevant standard



● Salient Features :

- Robust design for long lasting product life
- Adjustable product (dropping height) height
- DIN-Rail mounting arrangement

● Basic Specifications :

- Motorized operation with settable number of drop cycles
- Digital indication of test cycles
- Adjustable motor speed
- Test-ON, Test-OFF and Reset Pushbutton

- **Key Benefits :**

- The product tests the susceptibility of mechanical tripping of an MCB against repeated mechanical shocks induced by the equipment

- **Key Photos :**



Shock Test Apparatus



4. CORD GRIP TEST APPARATUS

- **What It Is ?**

- Cord Grip Test Apparatus for testing effectiveness of the retention in flexible cables.
- It is mentioned in standard IEC – 60898-1 & IS 1293.

- **Models Available :**

- The product is designed as per the specifications and drawings in the relevant standard.



● Salient Features :

- Settable weight (force)
- Counter to count number of pull offs
- Hinged plate for test specimen
- Crank or handle based arrangement for simplicity
- Pull offs are applied without jerks

● Basic Specifications :

- 50 N if the rated current is 2.5 A
- 60 N if the rated current is from 2.5 A to 16 A and rated voltage upto 250 V
- Screw based clamp arrangement for testing of cable by subjecting it to weight
- 100 pull up rotations by handle

- **Key Benefits :**

- The product is used to test the tensile strength of the electric cord against a flexible force obtained by rotation of eccentric circular plate

- **Key Photos :**



Cord Grip Test Apparatus



5. IMPACT TEST APPARATUS

- **What It Is?**

- SCR Elektroniks make Impact Test Apparatus is used to test the Electrical Accessories / appliances for their mechanical strength.
- It is designed as per IS 3854 1997

- **Models Available :**

- The product is designed as per the specifications and drawings in the relevant standard. The base plate and boxes, if any, can be customized as per diagrams in the standard



- **Salient Features :**

- Robustly built
- Can be mounted vertically or horizontally
- Tests a range of products of different application such as MCBs, switches and sockets

- **Basic Specifications :**

- Striking Element - hemispherical face of radius 10 mm, made of Teflon, weighing 0.15 kg
- Steel Tube - 9 mm diameter and 0.5 mm thickness
- Striking force - between 1 N to 2 N
- Height of fall - 250 mm

- **Key Benefits :**

- The tester is used to test the mechanical strength against impact

- **Key Photos :**



Impact Test Apparatus

6. TUMBLING BARREL APPARATUS

- **What It Is?**

- SCR Elektroniks make Tumbling Barrel Apparatus is specially designed and manufactured for use in laboratories involved in testing Appliances, Electrical Accessories, Luminaries and other related Electro technical products.
- It is used to perform the test specified in many standards to determine compliance with safety requirements, particularly mechanical strength of test samples. SCR Elektroniks Makes Counter to count ON/OFF of Limit switch.

- **Key Benefits :**

- The test bench is used to assess any possible damage arising out of falling inside the barrel for a pre-set amount of time and revolutions.



• Salient Features :

- Self contained compact unit that can be floor mounted.
- Laminated wooden barrel mounted on a sturdy support frame.
- Motorized operation enables ease of use.
- Rotation Speed of five RPM, providing a fall rate of ten falls per minutes.
- Steel base plate fixed at both ends of the barrel as specified in the standards.
- Digital pre-set four digits counter with bright LED dual display, membrane keypad Selection And battery back-up to memorize count value in case of power cut off.
- Audible / Visible 'Find of Test' indication.
- Transparent acrylic sliding cover allows easy loading and unloading of the test sample, and allows inspection during the test. Cover can be locked during the test.
- Two castor wheels and one adjustable foot provide mobility as well as leveling facility.
- Non contact proximity sensor ensure reliable operation Barrel JOG Switch to bring the barrel to upright position after End of Test.



• Basic Specifications :

- Drop Height : 500 mm
- Base Plate : 3 mm thick Steel Plate.
- Rotation Speed : 10 Falls per minute (5 rpm)
- Control : Digital Pre Set Counter, 4 digits, with battery back-up.
- Sensor : Non contact Inductive Proximity Sensor, 12 mm diameter.
- Indicator : Power ON, Barrel ON, End of Test (Audible beeper)
- Access : Through sliding acrylic cover with magnetic latch & key lock.
- Drive : AC Induction motor, geared, with reduction pulley and V-Belt.
- Power : 110 V AC, 50/60 Hz single phase.
- Safety Fuse : 2 Amp., slow blow, glass cartridge, 35 x 6 mm.
- Dimension : 450 mm W x 750 mm D x 1000 mm H approximate.

• Key Photos :



Tumbling Barrel Apparatus



7. SPRING IMPACT HAMMER

- **What It Is?**

- SCR ELEKTRONIKS have developed The tester tests strength and resilience of the domestic appliance / switchgear / wiring accessory under test against striking force derived from a mechanically charged spring hammer

- **Models Available :**

- The product is designed as per the specifications and drawings in the relevant standard



- **Salient Features :**

- Simple portable design
- Material not prone to rust
- Supplied in a wooden case to prevent damage during transit

- **Basic Specifications :**

- Striking Element - 10 N Force
- Mass of assembly - 250 gm not exceeding 1 J and 500 gm not exceeding 2 J
- Distance of striking element - 8 mm to 12 mm

● Key Photos :



Spring Impact Hammer



- **Documentation That Will Be Provided With Product :**

- Layout (dimensions, etc.)
- Metering and PCB termination diagram
- Power wiring diagram
- Control wiring diagram
- User manual
- Data acquisition module details (for PC based variants)
- Signed warranty certificate
- Calibration certificates (NABL optional)



• Why SCR Elektroniks ?

- Since 1975: Rich Experience In Test And Measurement
- Customized Solution
- Dedicated After Sales Support Team
- Designed More Than 100 Different Products
- In- House Team Of Micro-controller Design, Electrical And Electronic Design, Micro Controller Development, LabVIEW (PC) Software And PLC Logic, Production, Testing And Commissioning And Support
- In-house Development Of Critical Electronic And Electrical Meters, Modules And Components
- ISO 9001 : 2015 Certified By Bureau Veritas – Maintaining High Quality In Our Internal Process
- Listed By IEC In The Past
- Fair And Consistent Pricing
- Our Ultimate Prize: Customer Delight

● Clients Of Mechanical Testing Equipment's :

Sr. No	Customer Name
1	M/s. Tri Spectrum
2	M/s. Great White
3	M/s. Victory Instruments
4	M/s. SGS india
5	M/s. Elin Appliances
6	M/s. Philips
7	M/s. Intertek
8	M/s. Crompton Greaves
9	M/s. Godrej
10	M/s. Marc Enterprises
11	M/s. UL India



11	M/s. Havlls
12	M/s. Aragon Instruments LLC
13	M/s. Bajaj
14	M/s. L&T
15	M/s. Legrand
16	M/s. Anchor Electrical
17	M/s. polycab Wires
18	M/s. Hager Electro
19	M/s. Al-Motawase Factory
20	M/s. Orient Electricals
21	M/s. Alfamar Electrical Systems
22	M/s. Gallic Electrotechnology
23	M/s. Lighting Technology
24	M/s. HPL Electric & Power Ltd
25	M/s. Hi-Fi Industries
26	M/s. Great White
27	M/s. Novateur Electrical



11	M/s. Honeywell
12	M/s. Rotax
13	M/s. Panasonic
14	M/s. Pacific Rim Alliance
15	M/s. C&S
12	M/s. Maya Appliances
13	M/s. Teknic Electromeconics
28	M/s. R R Ispat
29	M/s. Central Electrical Testing Laborartory
30	M/s. Wipro

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THANK YOU