

Overview of Test Facilities Offered by Roots



Roots have a desire to be the best and to meet the exclusive requirements of various customers across the globe.

Has acquired the wisdom for well equipped test facilities to test various products in all factors related to the performance and the reliability, by simulating the environmental and field conditions to have robust checking for meeting the sporadic conditions.

- * **Environmental Test Chamber**
- * **Vibration Tester**
- * **Salt Spray Test Chamber**
- * **Universal Testing Machine**
- * **Dust Test Chamber**
- * **Water Spray Test Chamber**
- * **Coating Thickness Test Equipment**
- * **Hardness Tester**

Tests can be conducted in

- 1. Environmental Mode**
- 2. Vibration Mode**
- 3. Combined Mode**



Vibration Tester

<i>Make</i>	:	TIRA Gmbh, Germany
<i>Test Capabilities</i>	:	Sine, Shock & Random vibration
<i>Range</i>	:	2000 Hz / 91 g max.

Environmental Tester

<i>Make</i>	:	Angelantoni Industrie Spa., Italy
<i>Test Capabilities</i>	:	Humidity, Temperature Stability & Thermal Cycle / Shock
<i>Range (Temperature)</i>	:	(-65 to +170) °C with an accuracy level of ±1 °C
<i>Range (Relative Humidity)</i>	:	98% max. @ (20 to 80) °C



- Make* : **Angelantoni Industrie Spa., Italy**
- Test Capabilities* : **(i) DIN 50021 / ASTM B-117 / IS 9844 (Neutral Salt Spray)**
(ii) ASTM B-117 (ASS & CASS tests)
(iii) DIN 50907 (Dry Corrosion)
- Dimension (L x W x H)* : **(900 x 700 x 800) mm**



- Make* : **TIRA Gmbh, Germany**
- Test Capabilities* : **(i) Tensile test**
(ii) Compression test
- Maximum Force* : **20 KN**



<i>Make</i>	:	In-house
<i>Test Capabilities</i>	:	Dust test
<i>Cycle Time</i>	:	ON / OFF time can be varied upto 60 minutes
<i>Dust Material</i>	:	Fine powdered cement



- Make* : **In-house**
- Test Capabilities* : **Water spray test - Simulating rainy condition**
- Rotation* : **4 revolutions per minute, at vertical axis**
- Precipitation* : **(2.54 to 10 mm) per minute**



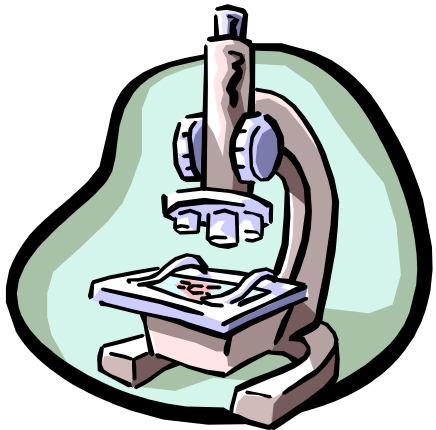
- Make* : **Helmut Fischer, Germany**
- Test Capabilities* : **Coulometric method according to DIN EN ISO 2177**
- 1. Coating thickness measurement for*
- *Multi coatings such as Cr / Ni / Cu on steel or plastic*
 - *Single and Dual coatings*
 - *Multiple Nickel layers with STEP*
- Range* : *Metallic coatings upto 40.0 microns*
- Sample Size* : *Minimum 3.0 mm diameter of flat surface area*



- Make* : **Micro Vickers Hardness - Shimadzu, Japan**
Micro Vickers Hardness - Future Tech Corp, Japan
Rockwell Hardness - FIE, India
- Test Capabilities* : **HV (15 gf to 2000 gf),**
HRA, HRB & HRC

- * **COLOUR ROOF (INDIA) LTD., Erode**
- * **DRESSER VALVE INDIA PVT. LTD., Coimbatore**
- * **G-PLAST PVT. LTD., Coimbatore**
- * **GE INDIA INDUSTRIAL PRIVATE LIMITED, Pondicherry**
- * **HALGONA RADIATORS PVT. LTD., Bangalore**
- * **JANATICS INDIA PRIVATE LIMITED, Coimbatore**
- * **LARSEN & TOUBRO LIMITED, Coimbatore**
- * **SOLITON TECHNOLOGIES PVT. LTD., Bangalore**
- * **SOURIAU INDIA PVT. LTD., Cochin**
- * **TEXMO PRECISION CASTINGS, Coimbatore**

If you require our testing services, we shall be pleased to provide you



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