

SPECIAL PURPOSE MACHINE



SALT SPRAY CHAMBER



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www.resotechmachines.com



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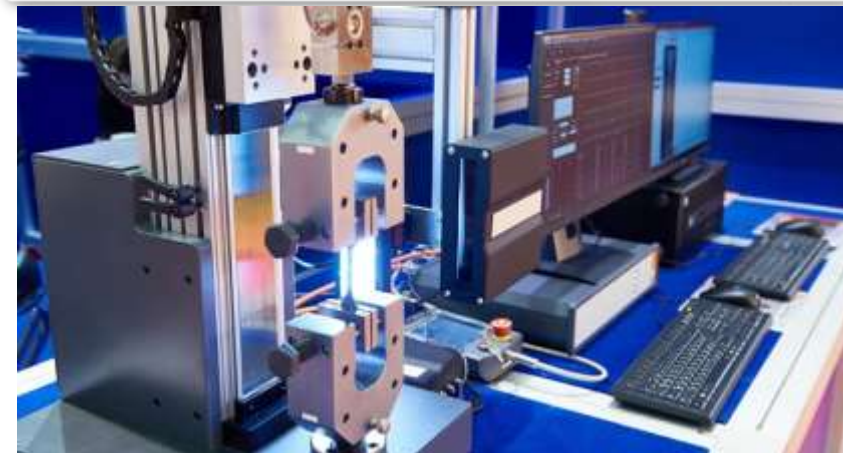


LEAKAGE TESTING MACHINE



ALL PRODUCT CATALOGUE

MATERIAL STRENGTH TESTING MACHINE



LABORATORY INSTRUMENTS



ENVIRONMENTAL CHAMBER



PACKAGING TESTING MACHINE



FURNITURE TESTING MACHINE

Furniture testing machine

Powerful & customizable & beautiful appearance

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HOT STAMPING MACHINE



FOOD PROCESSING MACHINE



RESOTECH[®]

TOY TESTING MACHINE



ELECTRICAL SWITCH ASSEMBLY MACHINE



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COMPANY PROFILE

Resonance Automation And Machines (RESOTECH) Welcomes To The World Of Machining Excellence. More Than One And Half Decades Of Experience And The Vision Towards Creating A Niche Has Transformed Resotech Into India's Fastest Growing Testing Machine Manufacturing Company. This Meteoric Growth Is A Result Of Resotech Vision Of Par Excellence To Manufacture State Of The Art Products, Adopting The Best In Technology.

We Have 2 Unit First Unit Delhi And Second Unit Bhiwadi Rajasthan.

The Modern Headquarters Contains A Spacious State Of The Art Machine Shop, Totally Equipped Assembly Shops, All Modern Measuring And Testing Equipment's, New Technologically Design SPM Machine and all kind of work like Computerized software, electrical panel , PLC & HMI programming and other mechanical work make Resotech Totally In-House Manufacturing Company.

Resotech Is Currently Offering Widest Range Of **12** Different Product Categories Special Purpose Machine, Leakage Testing Machine, Material Strength Testing Machines, Laboratory Equipment, Salt Spray Chamber , Packaging Testing Machine, Switch Assembly Machine, Toy Testing Machines With **13** Versions And **25+** Different Models Serving **15** Industry Segment Worldwide With **500+** Installations.

Infrastructure Facility

We Have Established A Modern Infrastructure Facility That Allows Us To Develop Our Products With Cutting Edge Technology. We Take Pride In Processing A Modern Manufacturing Unit That Is Equipped With Latest Machines & Equipment, Allowing Us To Ensure Superior Quality Throughout The Manufacturing Process. Our Manufacturing Unit Also Enable Us To Offer Customized Solutions To Our Clients To Suit Their Requirement. The Entire Business Operations Are Managed By Highly Qualified And Experienced Team Of Engineers, Skilled Technician, Draftsman And Other Professionals.



SPECIAL PURPOSE MACHINE

Special Purpose Machine (SPM)

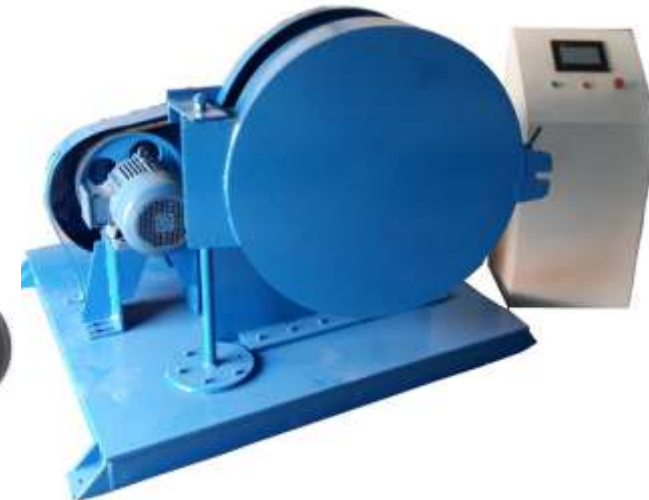
Special + Purpose + Machine

It can be defined when the machine is designed or manufactured to perform a special or defined task in a repeated manner.

Resotech is also well known for their high-end performing Special Purpose Machine. Resotech is one of the known leaders of automation technology. Most reliable semi and fully customized automation in manufacturing unit or production unit design by our mechanical and electrical engineering experts prove us one of the best leaders of automation technology in the globe. We as a partner make you feel in ease with our training, service and support

RESOTECH[®] SPECIAL PURPOSE TESTING MACHINE

GRINDING WHEEL SPEED TEST RIG



TEST SAMPLE

TRAIN SHOCKER TESTING MACHINE



TEST SAMPLE



TEST SAMPLE



GASKET CHEKING MACHINE



HOSE PIPE BURST TEST RIG



TEST SAMPLE



CARTRIDGE AND CERAMIC LIFE TESTING MACHINE



TEST SAMPLE



CLUTCH RUNOUT TEST MACHINE



TEST SAMPLE



DYNAMIC LOAD TESTING MACHINE



TEST SAMPLE

CYCLE BRAKE TESTER MACHINE



TEST SAMPLE



VIBRATION TESTING MACHINE



TEST SAMPLE



CLUTCH ASSEMBLY MACHINE



TEST SAMPLE



PART ENGRAVING MACHINE



TEST SAMPLE



MATERIAL STRENGTH TESTING MACHINE

Machine used in [materials science](#) to determine the properties of a material. Machines have been devised to measure [tensile](#) strength, strength in compression, shear, and bending (see [strength of materials](#)), [ductility](#), [hardness](#), impact strength (see [impact test](#)), [fracture](#) toughness, [creep](#), and [fatigue](#). Standardization of machines and tests is the province of the [International Organization for Standardization](#).

Materials testing, measurement of the characteristics and behavior of such substances as metals, ceramics, or plastics under various conditions. The data thus obtained can be used in specifying the suitability of materials for various applications—e.g., building or aircraft construction, machinery, or packaging. A full- or small-scale model of a proposed machine or structure may be tested. Alternatively, investigators may construct mathematical models that utilize known material characteristics and behavior to predict capabilities of the structure.

Type of Testing

┌ Universal test, ┌ Tensile Test, ┌ Elongation Test, ┌ Strain Test, ┌ Stress Test and Bending



MATERIAL STRENGTH TESTING MACHINE

UNIVERSAL TESTING MACHINE



LOAD TESTING MACHINE



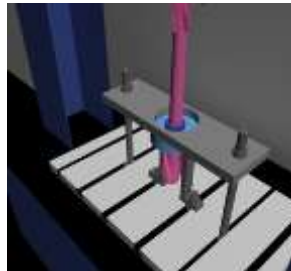
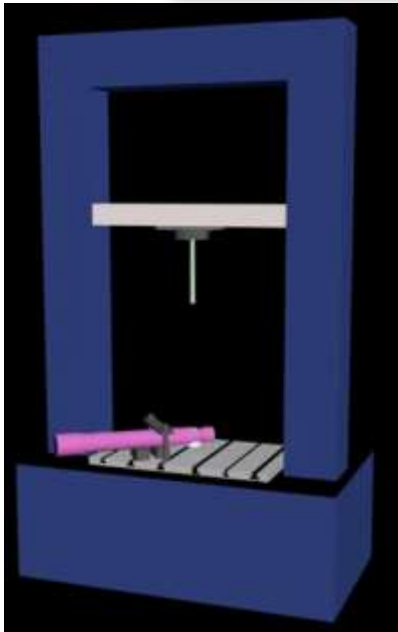
DIGITAL UNIVERSAL TESTING MACHINE



GRIPER



3D DESIGN



RESOTECH[®]

TENSOMETER 50 KN



PVC TENSILE TESTING MACHINE



HYDAULIC UNIVERSAL TESTING MACHINE



TENSILE TESTING MACHINE



LEAKAGE TESTING MACHINE

RESOTECH offering to our clients, leak test machines which have the ability of testing minutest leakages with utmost accuracy with pressure drop & vacuum method. The machine is widely trusted as it gives accurate results and certifies the product to be the leakage free. These leak testing machines are widely finds its applications in various industrial sectors.

We provide solutions for leak testing of any casting, molding, assembly components of automobile, pharmaceutical, packaging industries to suit various leak testing applications in production testing, quality control and R & D applications. This is high pressure air leak test through microprocessor based pressure drop method with highest resolution to meet international standards

Special Purpose Leak Testing Machine for Auto Components and Assemblies

Cylinder Block LTM

- ◆ Cylinder Head
- ◆ Pumps
- ◆ Rear Axle
- ◆ Cylinder Head Water Jacket
- ◆ Cylinder Head Valve Sheet
- ◆ Transaxle Housing
- ◆ Clutch Housing
- ◆ LPG, CNG Manifolds
- ◆ High Pressure Gas Cylinder

- ◆ Wheel Rim
- ◆ Clutch Cover
- ◆ Cylinder Head Cover
- ◆ 4 - Speed Housing
- ◆ Assembled Valve Seat
- ◆ Assembled Engine
- ◆ Power Piston Assembly of Brakes

- ◆ Assembled Batteries
- ◆ Assembled Transmission
- ◆ Power Steering Assemblies



LEAKAGE TESTING MACHINE

RESOTECH design & manufacture air leak test machines with dry as well as dry & water immersion method to check the porosity of Cylinder Block, Cylinder Head, Gear Housing, Clutch Housing, Transaxle Housing, Oil Coolers, High Pressure Gas Cylinder, Intake / Exhaust Manifold, Engine Assembly, Transmission Assembly, Rear Axle Assembly, Fuel Tank or any Pressurised / Fluid Reservoirs etc. with high pressure air leak test through microprocessor based pressure drop method with highest resolution to meet international standards. Water dip machine has built in facility of water immersion for further analysis of leakage area which can be observed in illuminated water tank. The procedure is to load the component on fixture, clamp and plug the component in position. Air will be pressurised in to the component till the pressure reaches a preset value, stabilise the air inside the component and checked for leakage through a pressure drop/flow sensor and the result is displayed on leak testing instrument. If the component is rejected, it is immersed into the emulsion tank where the area of leakage is observed visually. In case of OK component punching will be done & depressurization, de-plugging followed by de-clamping take place.

All clamping, locating and plugging will be done by hydraulic / pneumatic cylinders automatically, hence the process time and labor required is greatly saved. The operator only has to load the component & then press cycle start push button.

Total operation is automatic without operator interference. Machine is fully automatic & controlled through PLC. The system is configured to operate in auto / manual mode.

WET & DRY LEAKAGE TESTING MACHINE



CASTING COMPONENT LEAKAGE TESTING MACHINE



**TWO WHEELER FUEL TANK
LEAKAGE TESTING MACHINE**



**FOUR WHEELER FUEL
TANK LEAKAGE
TESTING MACHINE**



HIGH PRESSURE LEAKAGE TESTING MACHINE

RESOTECH[®]





BOTTLE LEAKAGE TESTING MACHINE



LABORATORY INSTRUMENTS

RESOTECH an ISO 9001: 2008 Certified Company, are a business organization, actively engaged in the manufacturing, supplying of Laboratory Instruments, Scientific Research and Laboratory Equipment's. These laboratory equipment's manufactured with efforts of our dedicated team of techno crafts, which is sincerely engaged in continual improvement of our range through consistent R & D. Further, we keep ourselves updated with the advanced technology and ensure to incorporate them in our lab instruments manufacturing process. Our know-how of modern techniques for various applications and functions involved in the process of manufacturing and quality testing keeps us ahead of our competitors. In pursuit of attaining excellence, the efforts of our company are directed towards incorporating the latest technological advancements and inputs, available at our end. Not only this, we do not leave any stone unturned towards ensuring the high degree of performance of these different scientific and laboratory instruments delivered by us.

WHY RESOTECH

- An ISO 9001:2008 certified company
- Client satisfaction through business ethics
- Extensive research and analysis
- Products designed and developed as per industry standards
- Encourages value addition through quality testing
- One stop solution for complete range of Laboratory equipment's



SCIENTIFIC & LABORATORY EQUIPMENT

- Autoclave
- Incubator
- Ovens
- Water Bath Equipment
- Laboratory Furnace
- Clean Air Equipment
- Water Distillation Unit
- Laboratory Hot Plate
- Gas Chromatograph
- Lyophilizer
- Seed Germinator
- Growth / Environmental Chamber
- Shaker / Stirrer
- General Laboratory Equipment
- Water Testing Instruments
- Incinerator



SALT SPRAY CHAMBER



STABILITY CHAMBER



ENVIRONMENTAL CHAMBER



HOT & COLD CHAMBER





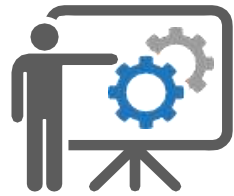
HUMIDITY CHAMBER



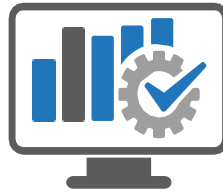
HOT AIR OVEN



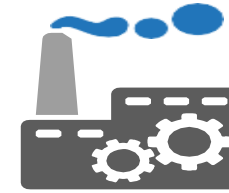
Product Lifecycle Development and Support



Engineering Design
Concepts &
calculations



Detailed Design,
Engineering
documentation &
Validation



Layouts, GA &
manufacturing

Our Solutions



Engineering Design
& Detailing



Manufacturing Support



Simulation & Design
Validation



Value Engineering

Tools We Use



Benefits We Offer



Reliable and Robust Design



Tackles High Degree of Complexity

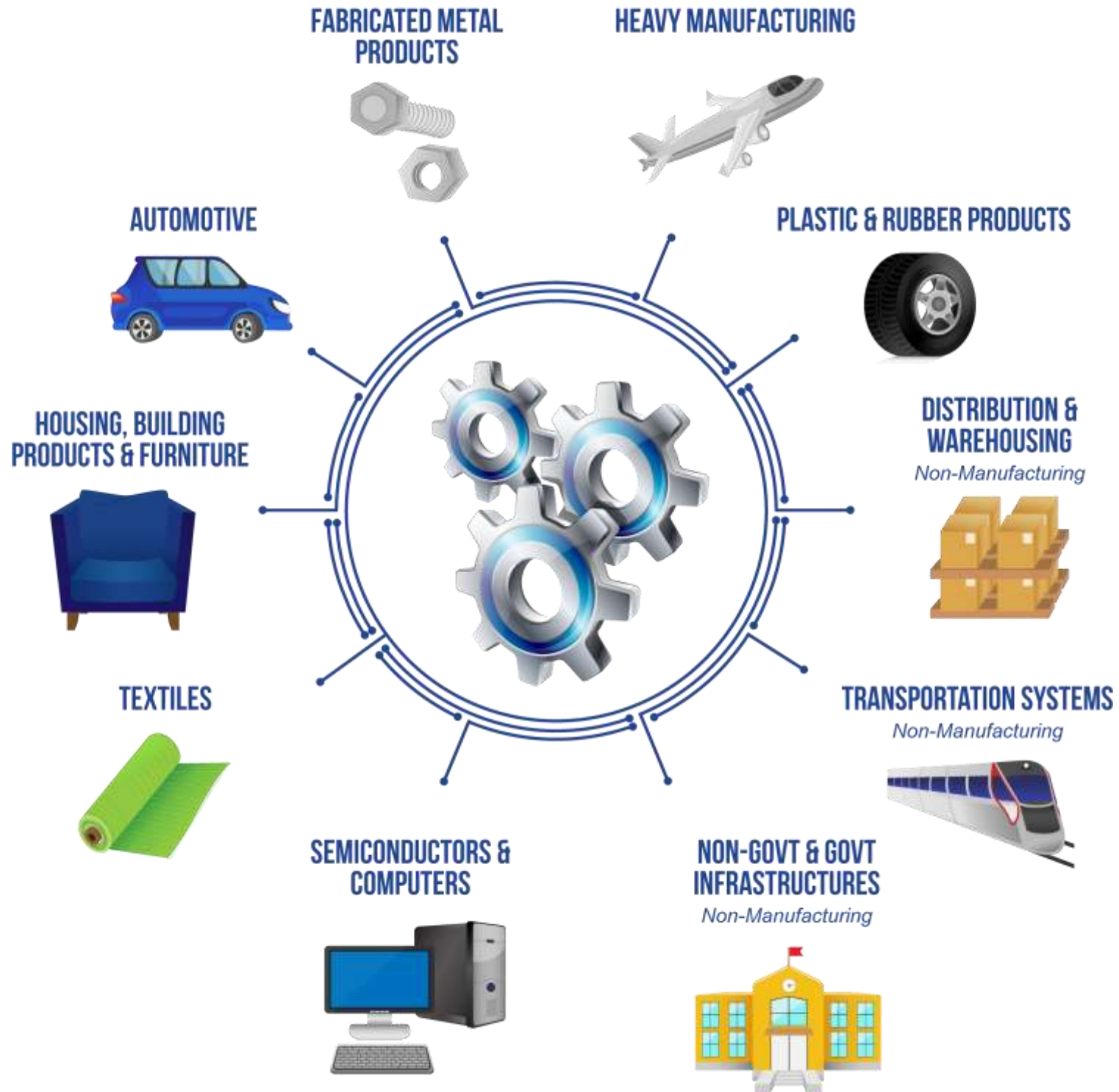


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