

Tensile Testing Machine with Screen



Product Info :

A **Tensile Testing Machine**, also known as a tensile tester or tensiometer, is a device used to measure the mechanical properties of materials, such as their strength, elasticity, and ductility. It does this by applying a tensile force to a sample of the material and measuring how it responds to the applied load.

Tensile testing machines consist of a load cell, which applies the tensile force to the sample, and a measurement system, which records the resulting deformation of the sample. The sample is typically secured in the machine by grips or fixtures that hold it in place while the tensile force is applied.

Tensile testing is a common method used to evaluate the strength and performance of materials in a variety of applications, including construction, manufacturing, and research. It is used to determine the tensile strength, yield strength, and ultimate tensile strength of a material, as well as its modulus of elasticity and elongation.

TECHNICAL DATA :

- No. of screws: Single screw mechanism driven through motor & gearbox
- Vertical Clearance: 700 mm
- Exterior Body Paint: Powder coated
- Display: Digital LCD Display
- Capacities: 50 Kgf to 500kgf
- Load cell: 'S Type' load-cell of reputed make
- Least count for load: 5gm to 50gm
- Results displayed on screen: Load & Elongation values
- Least count for elongation: 0.1 mm
- Speed Range: 40mm/min - 400 mm/min
- Load units: Kgf
- Speed control: Dedicated AC Drive
- RA232 Port to interface with PC
- Motor for speed variations: Reputed make induction motor with dedicated gear box
- Test jaws: Vice Type (By default) else Please specify your applications at the time of order.
- Power Supply: 230 Volt AC, 50 Hz, Single Phase

FEATURES :

- Unique and compact design features
- Fitted with Microprocessor based Programmable Logical controller
- Equipped with Lead screw for friction less traverse
- High accuracy in elongation
- Reputed make Induction motor with Dedicated Gear Box and Drive for speed variation and to maintain speed at high
- Easy to use display unit (controller part) and software
- In built Over Load Safety
- In built Over Travel Safety
- RS232 Communication port to interface the machine with computer
- You can get graph for load v/s elongation (stress v/s strain) and also get a excel sheet
- Overload protection for load cell
- Over travel of traversing crosshead in both direction
- Emergency Manual switch for stopping the machine

Our Valuable Customer



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