

Tensile Testing Machine - Digital



Product Info :

Tensile Testing Machines are popularly used in different industries to evaluate the tensile strength or ability of a material to stretch to a limit without developing a crack. The machine brings innovative as well as user-friendly features that are apt for any industry. A tensile testing machine is a device used to measure the mechanical properties of materials, such as their strength, elongation, and modulus of elasticity. It is also known as a tensile tester, tensile strength tester, or tensometer. The tensile strength or pull strength of a material defines the capability of that specimen to elongate its formation until it breaks down. This feature further defines the behavior of the sample when it is used in the production of other material or when it's used as a part of Machines or components. They are almost part of every equipment and machine used in the production line industry. The manufacturer and designers of plastic,

rubber and any material must ensure that the end product delivered to the industries have zero quality failures. One of the vital quality factors which need to be tested is the tensile strength of any material. A material with poor elongation or pull strength can be deformed easily when it's pulled or stretched and result in product failure. Such materials are never accepted by other manufacturers and can be rejected for their cheap quality. These products are then bound to get sold at low prices because of their poor performance.

The tensile testing machine brings highly advanced and international standard based parts like load cell, crosshead, vice type specimen grips, electronics, and an accurate drive system. It is controlled by microprocessor-based software to measure test values and record testing parameters.

Technical Data :-

- Model Number: PCTTM-1
- Number of screws & mechanism used: Single screw mechanism driven through motor & gearbox
- Vertical clearance provided: 700 mm
- Exterior body paint: Powder coated
- Display screen: Microprocessor-based digital LCD screen
- Capacities provided: 50 Kgf/ 100 Kgf/ 250 Kgf/ 500 Kgf
- Load cell type: 'S Type Load-cell of reputed make and brand
- Least count for the load applied: 5/10/20/50 Grams
- Test result displayed on the screen: Load & Elongation values
- Least count for material elongation: 0.1 mm
- Test speed range: 40mm/min to 400 mm/min
- Load units used: Kgf
- Speed control: Dedicated AC Drive
- 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
- Paint: Powder Coating

Features : -

- Floor standing model
- Unique and compact design features
- Fitted with Microprocessor based advance controller
- Single Column
- High accuracy in elongation
- Reputed make Induction motor with Dedicated Gear Box and Drive for speed variation and to maintain speed at high
- Over Load Protection
- Over Travel Protection
- Emergency Manual switch for stopping the machine

Our Valuable Customer



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