

Universal Tensile Testing Machine (UTM)



Product Info :

Universal Tensile Testing Machine (UTM) is the one-stop solution for evaluating tension, compression, bending, transverse, shear loads, and Hardness at a single platform. It is the most trusted and high selling product that is used in a wide range of sectors and many manufacturing units. The machine is a blessing for product engineers as it offers a complete range of structural testing of any product in one go. The equipment comes with the latest features and is available in a computerised version which means the user can extract all the data via connecting the machine to its system hence bringing comprehensive testing and collation of data with one quality testing equipment. Nowadays engineering a product and selection of raw materials has been changed to the next level. Manufacturers are getting a shortage of time to process and deliver a product at a designated time.

With such a highly tight schedule one can not take out time for testing or inspect the quality of what they are making. time of quality inspection but also helps in conducting multiple forms of tests on a single platform. This way the manufacturers can not only deliver the product on time but also can deliver the highest quality of product ahead in the market.

Considering this need of the market and the manufacturers, a **Universal Tensile Testing Machine - Computerized (UTM)** has been designed. This single machine which comes in a computerised version can deliver multiple quality inspection evaluations for iron, metal products and even rubber or a polymer. It can test a variety of physical properties of a product including the tensile strength or the ability of a product to stretch to the level where it breaks, compression strength or the point at which the product will crush under increasing vertical load.

Technical Data :

- Capacities: 100 Kgf to 5000Kgf
- Grip to Grip Separation: 60mm – 850mm.
- Cross Head Speed: 40mm/min – 400mm / min.
- Cross Head Travel Length: 1050mm without Grips.
- Load Sensor: S Type
- Display: LCD display with backlit
- RS232 Port to interface with PC
- Over Load protection
- Over travel protection
- Tensile, Compression and Flexural test can be performed.
- Motor: 3 hp Induction Motor (Crompton/ Bharat Bijlee make) with Gear box
- Speed Drive: Crompton/ Delta make
- Material of construction: M.S Powder coated
- Power: 220V AC, Single Phase, 50 Hz

Features :

- Speed Control through Variable Frequency drive
- High quality load sensors
- Max. Grip to Grip travel length: 850 mm
- Double column rugged structure
- Limit switches for over travel protection
- Hardened lead screws for frictionless movement
- The parameters of software includes Operator ID, dimensions of sample (L X B X H), selection of units, Company details, Speed Selection, Date, Time etc.
- Test report can be exported excel format
- Test running status can be viewed online
- Software features: Graph setup, test control wizard, formulae/result calculations, reports, live test panel.
- Tension, compression & Flexural test can be performed.
- Machine will automatically move to home position after completion of test.
- Test reports can be emailed also.

Our Valuable Customer



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