

## Tensile Strength Testing Machine

Universal Tensile Strength Testing Machine is suitable for carrying out tensile test on variety of materials such as yarns, fabrics, lea, elastomers, papers, wires, etc. B-Tex Engineering provides you with high quality, accurate and reliable testing machine.

Universal Tensile Testing Machine has been designed in such way that one testing space is suitable for extra long test sample, having long elongation. The facility of controlling the test via Computer with online force v/s elongation graph is also available with data analysis & report printout facility, tension, compression, cyclic & stress relaxation test can be carried very effectively using extremely powerful interactive software, which makes the machine versatile.

### ►►► Features:

- Micro Controller based Panel-incorporating State of Art Technology.
- Digital Display of Force, Elongation & Speed values on large Backlit LCD Display Unit.
- Choice of multiple load cells selectable via keyboard.
- Peak Force Memory Facility.
- Choice of Fixed or Variable Testing Speed
- Closed loop servo system in variable speed Model.
- Speed selection via keyboard.
- Displacement measurement using Optical Encoder.
- Safety interlocks for overload and over travel.
- Communication port for downloading test data in computer.
- Software for computer control of machine with online graphic display & test report.
- Choice of Grips & Fixtures for variety of materials also available optionally.
- One set of pneumatic grips for yarn and one set of fabric grip come with standard supply.
- Compact & Elegant design.
- Safety limit switches for over travel safety

### ►►► Specification:

Capacity of Machine	: 0 - 2000 kg (20KN)
Force Resolution	: 1 Gm & 10Gm
Force measurement accuracy	: $\pm 0.25\%$ of FSD
Speed accuracy	: $\pm 1\%$
Crosshead Displacement accuracy	: $\pm 0.25\%$ reading
Minimum Elongation	: 900 mm/min
Minimum and Maximum speed	: 0.005 - 1270 mm/min
Sensitivity	: 100 gms
Crosshead displacement Measurement Resolution	: 0.01 mm
Crosshead travel	: Max 500mm
Force capacity	: max 500 N Max
Max Return Speed	: 1000mm/min
Load Cell/Force Gauge capacity	: 1000 $\times$ 0.1gm & 5000 $\times$ 0.5gm
Grips	: Pneumatic for Yarn, Mechanical for Lea & Fabric
Crosshead speeds	: 20 to 400 OR fixed speed as per requirement
Options	: Other testing speeds on special request
Power Supply	: 230 V AC, 50Hz, Single Phase
Additional Requirements	: Computer - Monitor & CPU.
Load Cell	: 2
Machine Type	: Computerizer, Dual column tabletop
Component type	: tested- Needles, Surgical Suture including steel suture, Adhesive tapes, & Transfusion and Infusion Set

### ►►► Confirms with the following international standards:

BS EN ISO 13934, Parts 1&2 ASTM D-5034:1995, ASTM D-5035:1995

confirms with international standards and comes under warranty. All this help provide customer satisfaction that promotes long term customer relationship which is our ultimate objective at B-Tex Engineering.



## ▶▶▶ Regulatory compliances



## ▶▶▶ Corporate Social Responsibility



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