

# DIGITAL YARN TENSILE TESTERS

**Compact & Elegant Table Top Design for strength testing of Yarn, Fabric, Lea, Elastomers, etc.**

## MODEL:

### Features

- Micro Controller based versatile electro-mechanical testing machines, incorporating state of art technology.
- Standard Fixed Speed Machine – 300 / 500 / 1000 mm/min. optional Variable Testing Speed (20-1000 mm/min) with closed loop servo system, facilitating speed selection via key board.
- Digital Display of Force, Elongation & Speed Values on large backlit LED display with Peak Memory Facility & Force ratings up to 500 Kgs.
- Choice of multiple load cells selectable via key board.
- Displacement measurement using Optical Encoder.
- Safety interlocks for overload & over travel.
- Communication part for downloading test data in computer
- User friendly, interactive Software for computer control of machine / tests with online graphic display of force Vs elongation & data analysis with test report printing
- Movable Crosshead to provide testing space with set of load cell & grips.
- Suitable manual or optional pneumatic (with foot switches) grips for variety of materials.
- Force Resolution – 1 gm, Force Measurement Accuracy  $\pm$  0.5% of FSD, Max Cross Head Stroke – 750 mm (suitable even for POY having elongation exceeding 150%)
- Power supply – 230V AC, 50Hz, Single Phase.



## MODEL: "BU"

Screw driven table top Testing Machine having rated force capacity of say 20 Kg. with following Scope of supply:

Type of construction	: Two columns supported load Frame.
Force rating	: 20 Kg
Crosshead drive mechanism	: Lead screw and nut mechanism driven by fixed speed geared Motor.
Crosshead Speed Range	: Fixed speed of 300 mm/min OR (to be specified by customer)
Forced Measuring Transducer	: Load cell of 10 Kg capacity (Calibrated for 5 Kg)
Range	: 0 – 5 Kg
Resolution	: 1 Gram approx.
Accuracy	: +/- 0.5% of FSD
Display	: Backlit Alphanumeric LCD Digital Display
Unit for force in Grams/Newton/Pounds with Peak Force Memory.	
Travel	: Minimum 100 mm gauge length. Maximum 300 mm travel
Displacement measurement	: By using Scale & Pointer.
Controls	: Power ON/OFF switch : Crosshead UP/DOWN movement switch : Motor STOP switch : UPPER & LOWER safety limit stops : Built in overload safety for Load Cell. : Built in auto stop at sample break or drop in force below defined value.
Supply	: 230V, 50 Hz, 1 Phase
Grips & Fixtures	: <b>Screw action Clamps – 1 Set</b>



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