

TensoMaster

Generic Name : Automatic Single Yarn Strength Tester
Product # : MAG – Y1371 **Test Category** : Yarn
Industry Usage : Spinning, Weaving & Knitting

Features :

- Determine the tensile properties of all kinds of yarn.
- Constant Rate of Extension (CRE) principle.
- Fully automated operations with pneumatic control ensure accurate results.
- Accommodates 20 packages and Simultaneous sample preparation methodology for faster testing.
- State of the art, ICM system with latest ARM based microcontroller.
- Automatic and quick returning of lower jaw to home position after completion of each test.
- Foldable Cone / Cop stand for easy storage and transportation.
- Built-in self-diagnostic test facility.
- Selectable force unit: cN and gf;
Selectable elongation unit: mm, inch and %.
- Computer connectivity port for data transfer and presentation.
- Supplied along with "Power supply Isolation module" for protection from Surge, Spikes and Earth related issues.


TECHNICAL DATA

Capacity	: Breaking Force : 50 Newton (Optional 100 N and 500 N)
Package Truck Capacity	: 20 Cops / Cones
Elongation Range	: 100 % for 500 mm Sample Length ; 900 % for 100 mm Sample Length 400 % for 200 mm Sample Length
Testing Speed	: 100 to 5000 mm/min.
Sample Length	: 100 to 500 mm (In steps of 1 mm)
Pre-tension	: Auto pre-tension considering the Count selected
Numerical Results	: Breaking Force, Elongation, RKM value, Time to Break and Work done
Graphical Results	: Force-Elongation curve, Stroke diagram and Frequency Distribution curve
Calibration	: Multipoint – Standard Mass (100, 500 and 1000 gram)
Compressed Air Supply	: 14 m ³ / hour at 6 to 7 bar dried and filtered air
Power Supply	: Single phase 220vAC @ 50Hz; Consumption : 1000 vA
Applicable Standard(s)	: ASTM D2256, ISO 2062 & IS 1671
Physical Dimensions	: Instrument : Size (WDH) : 695 x 600 x 1600 mm; Weight : 225 kg Yarn stand : Size (WDH) : 300 x 450 x 1780 mm; Weight : 25 kg

SCOPE OF SUPPLY

- 1) Main Unit** : - 1 No.
- 2) Accessories** : TFT Monitor - 1 No., CPU - 1 No., Keyboard and Mouse - 1 No., Laser Printer - 1 No
Inlet Air tube (3m) - 1 No., Yarn stand - 1 No., software CD - 1 No., Mains cord - 1 No.,
Isolation transformer (1.5 KVA) - 1 No., Instrument Communication cable (1.5 Meter) - 1 No.
Yarn cutter - 1 No. and Calibrated weight (100, 500 & 1000 gram) - Each 1 No.
- 3) Spares** : Jaw grips – 1 set (2 Nos.), Proximity Sensor - 1 No., Micro Switch - 1 No., FRC cable - 2 sets,
Cutter Blade - 1 set and Finger PU Washer - 2 Nos.
- 4) Documents** : User's guide with Warranty certificate, Test certificate & Calibration certificate.

Optional Supply : Online Sine-wave UPS

PRE-REQUISITES FOR INSTALLATION

Properly earthed and Stabilized Single phase 220vAC @ 50Hz ported at 15 Amps supply socket, Laboratory standard compressed Air supply at 6.0 bar, PC table (Size of 3 x 3 x 3 Feet) Test samples and Suitably qualified operator.

OTHER AVAILABLE MODELS

TensoLite