

TensoMaster

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

TEXTILE
TESTING
SOLUTIONS

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 m³ / 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