ComboData DXT

MAG™
beyond quality

TEXTILE
TESTING
SOLUTIONS

Generic Name : Computerized Lea Count & Single yarn Strength Tester

Product # : MAG - Y0511 | **Test Category :** Yarn

Industry Usage : Spinning, Weaving & Knitting

Features :

- Determine the peak breaking force and elongation of yarn in skein form (Lea) having 1.5 yards girth and Tensile properties of monofilament and spun yarns, either in single, plied or cabled form (Software with computer system is necessary).
- Rugged floor model with double column mechanism; Ergonomically design.
- Operating under standard CRE (Constant Rate of Extension) principle.
- Automatic and quick returning of lower jaw to home position after completion of each test.
- Frequency drive based drive unit with positive gearing mechanism for trouble-free operation.
- Built-in self-diagnostic test facility.
- **Lea Strength -** Selectable force unit : kgf, lbf and Nf; selectable elongation unit : mm, inch and percentage.
- **Single yarn Strength -** Selectable force unit : gf, kgf, lbf, Nf and cN; selectable elongation unit : mm, inch and percentage; selectable RKM unit : g/tex and cN/tex.
- Computer connectivity port for data manipulation and presentation.
- SpinSoft contains, a) CSP analysis including separate count, strength in statistical and graphical format. b) Wheel change advice, significant differences, expected CSP calculations and conversion tables.
- Facility to accommodate 15 type of electronic balance for count and hank measurement.
- Search and Report option : Date wise / Month wise / Count wise / Lot wise / Shift wise and consolidated.
- Printing option : Vertical and Horizontal format.

TECHNICAL DATA

Capacity	: Lea Strength : 500 lbf / 225 kgf / 2250 Nf
	Single yarn strength : 25 lbf / 11 kgf / 110 Nf
Accuracy	: ± 0.1 lbf / ± 0.05 kgf / 0.5 Nf
Rate of Extension	: 50 to 500 mm / min. (300 mm / min for Lea strength testing and 500 mm/min. for single yarn strength testing)
Control system	: Microcomputer based advanced solid-state control circuitry
Display	: Alphanumeric back-lighted LCD display
Drive System	: Inverter drive controlled motor; Dual screw-rod; Positive gearing mechanism
Computer Interface	: Serial communication port 'RS - 232' (Comport)
Software features	: Front-end language : English; Windows XP/ Window 7 / Vista compatible; Individual/ Group Results/analysis; Graphical representation; Bi-directional communication
Graphical results	: Trend chart, Histogram, Control chart, Nominal chart and Force-elongation curve
Balance capacity	: 210 gram; **Accuracy :** ± 0.001 gram
Power supply	: Single phase 220vAC @ 50Hz; Consumption : 300 watts
Applicable Standard(s)	: ASTM D1578 / D2256 & IS 1671
Physical Dimensions	: Size (WDH) : 800 x 400 x 2000 mm
	Weight : 195 kg

SCOPE OF SUPPLY

1) Main Unit - 1 No.

2) Accessories : Load cell 250 kg - 1 No., Load cell 11 kg - 1 No., Calibration Hook - 1 No.,
SpinSoft software - 1 No., Lea skein holder (top) - 1 No., Lea skein holder (bottom) - 1 No.,
Single yarn clamp (top) - 1 No., Single yarn clamp (bottom) - 1 No.,
Extender stud - 1 No., Precision electronic balance - 1 No.,
Isolation transformer (1.5 KVA) - 1 No., Lock Pin - 2 Nos. and
Communication cable (1.5 mtr.) – 2 Nos.

3) Spares : Lock Pin - 2 No.

4) Documents : User's guide, Warranty certificate, Test certificate & Calibration certificate.

5) Consumables : Standard Lea samples (Each 20 Nos.) – 2 sets

Optional Supply : Computer system, On-line sine wave UPS, Laser printer, Calibrated weight (10 kg) &
"USB PCI CARD" 2 port with interface cable

PRE-REQUISITES FOR INSTALLATION

Properly earthed and Stabilized single phase 220vAC @ 50Hz ported at 15 Amps supply socket, OS window licensed version installed computer system with 'PCI CARD' 2 port for connecting, CD drive, Minimum 1GB RAM, 80 GB hard disk, Test samples and Suitably qualified operator.

OTHER AVAILABLE MODELS

TensoMaster, UniStretch XT, ComboData XT, MecStretch XT and **MecStretch**