

TENSOMAXX 7000

Automatic Single Yarn Strength Tester

PREMIER



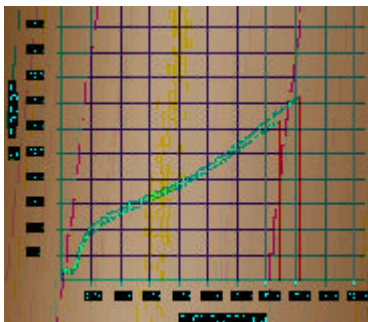
- Fully automatic
- Constant Rate of Elongation Principle
- Speeds upto 5000mm/min
- Test Length upto 500mm

Premier Tensomaxx 7000, the automatic tensile testing installation from Premier provides all the tensile characteristics such as breaking force, elongation, tenacity and work done. The graphical output, such as the Force Elongation Curve and the frequency distribution diagram enhance the possibilities of further analysis and interpretation.

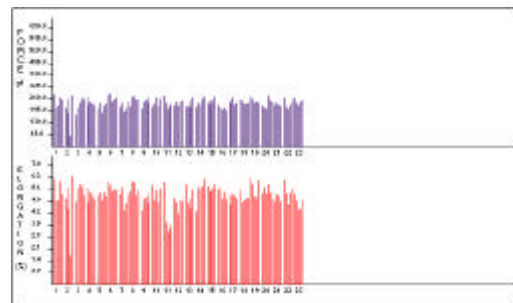
Premier Tensomaxx 7000 works on the principle of ‘**CRE - constant rate of elongation**’’. The yarn is automatically laid into the clamps and a load exerted till the yarn breaks. The signals generated by the movement of the jaws and from the load cells are processed to obtain various output information in the PC as well as in the printer.

Force Elongation Curves represent not just the breaking strength and elongation values but the entire history of loading. This enables optimum selection of the yarn for different end uses.

Stroke diagrams help the identification of periodicities in the tested results which are not easily identified by mere numerical results.



Force Elongation Curve




Stroke Diagram

Technical Specifications

Basic Installation	:	Tester, Display and control unit (PC), Printer (Colour), Automatic yarn changer(upto 20 cops) and creel
Accessories	:	Yarn Hook
Options	:	Clamps for lea and fabric testing
Measuring principle	:	Constant Rate of Elongation (CRE)
Testing speed	:	50 mm/min to 5000 mm/min
Test Length	:	150mm to 500mm
Pretension	:	0.5cN/Tex to 2.5cN/Tex Automatic between cop testing Automatic within cop testing (with rolling off arrangement)
Application Range	:	<p>Breaking Force</p> <p>Single & Ply, - 60g to 9000g Spun & Filament Yarn</p> <p>Lea (Skein) and - 1.44kg to 90kg Woven Fabric Strip</p> <p>Elongation</p> <p>Upto 80% at 500mm test length Upto 500%(or 750mm) at 150mm test length</p> <p>Accuracy 1%</p>

Outputs of the Product

Numerical	:	Breaking Force(kgf, gf, lbf, mN, cN, N & KN), Breaking Elongation (%), Breaking Tenacity (cN/Tex, gf/Tex, Rkm), Time to Break (sec, min), Work Done , Partial Work Done, Modulus Characteristics, Statistical Block (Mean, Min, Max, CV% and Q95%)
Graphical	:	F-E (Force-Elongation) Curve Stroke Diagram Frequency Distribution Curve
Reports	:	All measured characteristics in numerical and graphical format
Calibration	:	Factory calibrated using standard weights. Possible to check calibration at field

		
<p>Fibre Testing • Length • Strength • Micronaire • Color • Trash • Neps • Short Fibre • Fibre Conditioning</p> <p>Yarn Testing • Count • Evenness • Hairiness • Tensile Testing • Yarn Fault Classification</p> <p>Yarn Clearers • Capacitive Clearer for Manual and Autowinders</p> <p>On Line Monitoring • Quality and production at Cards • Combers • Draw frames • Roving frames • Spinning frames • Auto winders • Weaving</p> <p>Mill Management • Mill Eye • Textile ERP</p>	<p>premier polytronics ltd. 304 Trichy Road Singanallur Coimbatore 641 005, India Tel : +91 422 573658 Fax : +91 422 573651 E-mail : mail@premier-1.com www.premier-1.com</p>	