PREMIER

TEMSOMAXX 7000 SPECIFICATIONS

- **Basic installation**
  Tester unit
  Clamping device 1000N for staple fibre yarns, filament yarns, double yarns, lea and fabric
  Optionally: clamping device 2500N for high tenacity materials (for example jeans)
  PC (Intel Pentium) with digital **display**
  Printer Epson Stylus Colour 400
  Creel up to 24 cops with diameter <28 cm or 12 cones with diameter >= 28 cm
  Separate **clamps** for yarn, lea and fabric. Clamps always supplied with the machine
- **Tensile testing instrument** — Fully automatic only for yarn
- **Measuring principle** — CRE Constant rate of elongation (the distance which is moved by moving clamp per unit of time constant)
- **Force range**
  - **for yarn** — 4095 g from 100 Kg transducer (resolution ±1 g)
  - **for lea & fabric** — 98280 g from 100 Kg transducer (resolution ±24 g)
  - **higher tenacity materials (optional)** — 245700 g from 250 Kg transducer (resolution ±60 g)
- **Tested materials** — staple fibre yarn, ply yarn, wool, silk, lea and normal woven fabric
- **Tested length** — 150 to **500** mm in auto laying
  150 to 600 mm in manual laying
- **Elongation** — Total length = 900 mm
  for 150 mm test length = max. 750 mm elongation
  for 500 mm test length = max. 400 mm elongation
- **Elongation accuracy** — 0.00583 mm
- **Pre tension** — **0.5** to 2.3 cN/Tex (2.3cN=for high tenacity materials)
- **Testing speed**
  - **for yarn** — 50 to **5000** mm/min
  - **for lea** — 500 mm/min (fixed)
  - **for fabric** — **100** to 500 mm/min
- **Max. test per hour** — 240...300 test/hour (with 5000 mm/min, 500 mm test length and 5% elongation)
- **Max. consecutive test** — no limitation series (max. 1000 test for 1 series)
- **Numeric results**
  - **for yarn**
    - Breaking force (mN, **cN**, N, KN, Lbf, **gf**, Kgf)
    - Braking elongation (%)
    - Tenacity (**cN/tex**, Rkm, **gf/tex**)
    - Breaking time (sec, min)
    - Workdone
    - Partial workdone
    - Secent modulus
    - Initial modulus
    - Young's modulus
    - Mean value, Min. value, Max. value, CV%, Q95
  - **for lea**
    - Breaking force (mN, **cN**, N, KN, Lbf, **gf**, Kgf)
    - Breaking elongation (%)
    - Count strength product
    - Breaking time (sec, min)
    - Workdone

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• **for fabric**	• Mean value, Min. value, Max. value, CV%, Q95 • Breaking force (mN, **cN**, N, KN, Lbf, **gf**, Kgf) • Breaking elongation (%) • Breaking time (sec, min) • Workdone • Force elongation curve • Stroke diagram • Histogram • Modulus diagram
• **Graphical results**	• Mean value, Min. value, Max. value, CV%, Q95 • Force elongation curve • Stroke diagram • Histogram • Modulus diagram

• **Power supply**	100/110/200/220Vac 50/60Hz single phase
• **Power consumption**	600VA mean (2080VA peak)
• **Total installed power**	2500W
• **UPS for PC (optional)**	1000VA
• **Pneumatic supply**	Compressed dry air at 9...11 bar
• **Air consumption**	10m³/hour
• **Test conditions**	Lab. humidity RH 65% ±2% Lab. temperature 27°C +2/-6°C Machine 20 minutes warming up time
• **Location**	Vibration free location
• **Machine dimensions**	
• **creel**	W600 x H1800 x L680 mm
• **tester unit**	W660 x H1640 x L400 mm
• **PC table (not included)**	W1200 x (H700) x L750 mm (xx)=up to the customer
• **Total packing weight**	722 Kg

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