



X100 Tensile Tester

Model 1KN

Machine Features:

- Universally Calibrated, better than Grade 0.5 EN 7500-1 Resolution 1 part in 500000
- Automatic load cell identification and electronic load cell protection
- Full frame length to a maximum resolution of 0.0001mm
- Accuracy +/- 0.01mm
- Absolute, relative, and auxiliary modes in mm, inch, and percent
- Rigid frame with precision linear guidance system
- Overload, overtravel, and impact protection
- Telescopic covers for additional protection
- Supplied with winTest Analysis software
- RCE remote connection option
- Low-speed performance down to 0.001mm/min
- Drive system temperature and current protection
- High-efficiency pre-loaded self-cleaning ballscrews
- High-speed data collection up to 4 synchronous channels
- Expansion ports for extensometers, Micrometers, calipers and other external sensors.
- Extensive range of grips and fixtures for various tests
- Wide range of extensometers, including clip on, laser and video models

Force Measurement

Universally Calibrated, better than Grade 0.5 EN 7500-1, DIN 51221, ASTM E-4, and AFNOR A03-501. Range 0.4% to 100% minimum. Automatic identification of load cell. Resolution 1 part in 500000. Electronic load cell overload protection.

Extension Measurement

Full frame length to a maximum resolution of 0.0001 mm (selectable). Accuracy +/- 0.01mm. Absolute, relative, and auxiliary modes in mm, inch, and percent.

Speed Control

Exceptional low speed performance with speeds down to 0.001 mm/min. Drive system temperature and current protection.

Load Frame

Rigid frame, using precision linear guidance system and rigid extruded support column. Frame stiffness 5kN/mm plus K factor facility built-in. Re-circulating ball screw with bellows. Electronic limit trips, total travel trips, and customer programmable safety stops.

Software

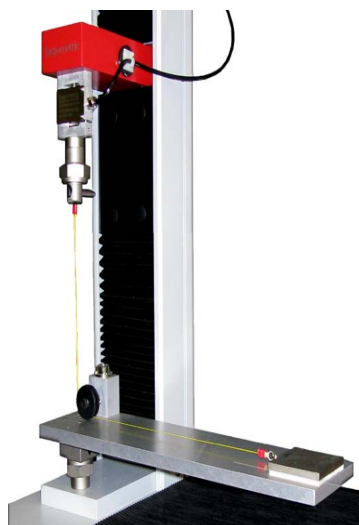
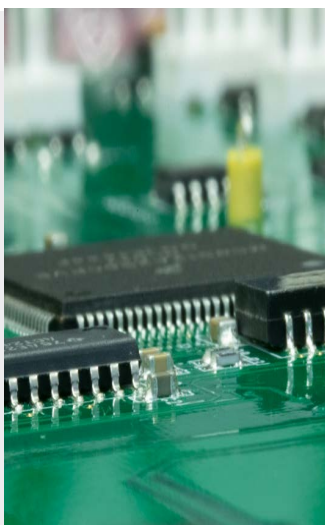
All models are supplied with comprehensive winTest Analysis software package. The product of many years of continuous development, winTest Analysis provides a flexible and intuitive software package to suit all types of material testing.

Options

Available in both standard and long-travel versions

Technical Specification:

Model X100	84-01-X2-0001	84-01-X2-0002
Force Capacity	1kN	1kN
Accuracy	Better than +/- 0.5% of reading down to 1/1000th of load cell capacity	
Crosshead travel	420 mm (Standard)	670 mm (Long travel)
Vertical space	600 mm	850 mm
Position Control Resolution	0.0001 mm	0.0001 mm
Throat depth (force axis to column)	81	81
Minimum Speed	0.001 mm/min	0.001 mm/min
Maximum Speed	2000 mm/min	2000 mm/min
Speed Accuracy	+/- 0.1% under stable conditions	
Max force at full speed	1kN	1 kN
Max speed at full load	2000 mm/min	2000 mm/min
Data Acquisition Rate (at PC)	500Hz	
PC Connection	USB	
Machine Configuration	Single-column, bench mounted	
Frame Stiffness	5kN/mm	5kN/mm
Weight	24kg	26kg
Operating Temperature	-10 to 40 °C	
Operating Humidity	+10 to +90% non-condensing	
Electrical Supply	230V, 1ph 50/60Hz (115V option available)	
Power	0.2kW	0.2kW



Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

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