

Compact and lightweight Universal Testing Machine with full computer control and precision AC servo drive system. Ideally suited to high-volume, low force testing applications such as paper or packaging materials. Available in both standard and long-travel versions suitable for testing of high-elongation materials.

Made to Measure

The X100 is a completely digital testing system featuring high precision control and accuracy. The system features automated computer control of test methods, enabling easy operation:



- Automated recognition of load cells and extensometers, with on-device storage of calibration parameters
- Delivers high-resolution load cells with better precision over $\pm 0.5\%$ down to 1/1000th of the load cell capacity
- Features an 800% overload capability of load cells without damage
- The software calibration check facility enables real-time verification of machine accuracy
- Accurate crosshead control through digital AC servo drive and brushless servo motor provides maintenance-free operation and 20,000 pulses/rev positional control
- The system comes with high-efficiency pre-loaded self-cleaning ballscrews for quick and silent testing and is built with sealed-for-life lubricated end bearings
- Delivers accurate alignment and smooth running using the crosshead guidance system
- Loaded with a high-speed data collection system for up to four synchronous channels
- The system is available with a broad range of contacting and non-contacting extensometers, which includes laser and video models
- Compact footprint design ensures the economy of bench space
- Features a wide range of grips and fixtures for compression, tension, shear, flexural, peel, product testing, etc.
- Provides overtravel, overload and impact protection
- Additional protection for ballscrews against dust and testing debris ensured through telescopic covers
- Expansion channel for additional devices like micrometers, extensometers, balances, calipers, etc.
- High stiffness loading frames with solid specialized steel crossheads and rigid extruded support columns using T-slots for accessory mounting

SST 1000 SERIES

	X100-1	X100-1LT
Force Capacity kN	1	1
Accuracy	Better than +/- 0.5% of reading down to 1/1000th of load cell capacity	
Crosshead travel mm	420	670
Vertical space mm	600	850
Position Control Resolution mm	0.0001	0.0001
Throat depth (force axis to column)	81	81
Minimum Speed mm/min	0.001	0.001
Maximum Speed mm/min	2000	2000
Speed Accuracy	+/- 0.1% under stable conditions	
Max force at full speed kN	1	1
Max speed at full load mm/min	2000	2000
Data Acquisition Rate (at PC)	500Hz	
PC Connection	USB	
Available load cells	5N, 10N, 20N, 50N, 100N, 250N, 500N & 1kN	
Machine Configuration	Single-column, bench mounted	
Frame Stiffness kN/mm	5	5
Weight kg	24	26
Operating Temperature °C	-10 to +40	
Operating Humidity	+10 to +90% non-condensing	
Electrical Supply	230V, 1ph 50/60Hz (115V option available)	
Power kW	0.2	0.2

A Wide selection of Pneumatic, Hydraulic and specialist Grips are available upon request.

Fixtures include:

Plattens, bend fixtures, puncture testing And many more.



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