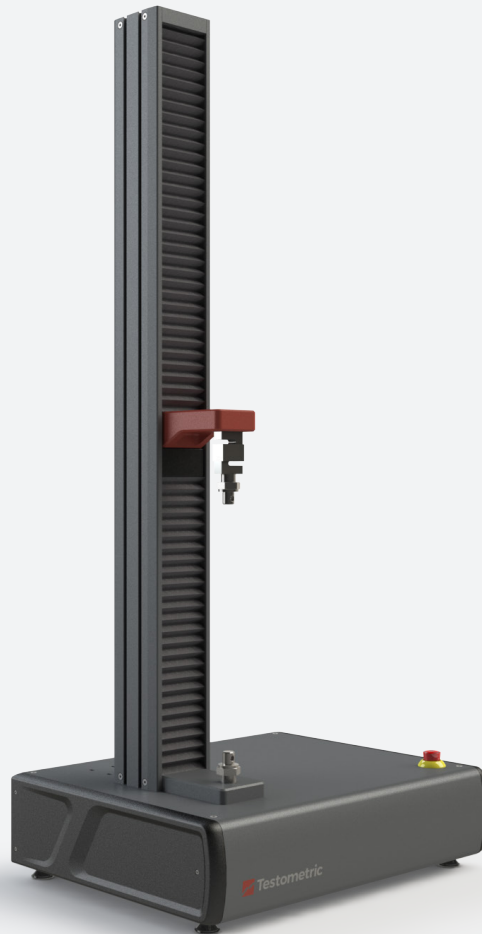


X250

XXXXXXXXXXXXXXXXXXXX

Single column, bench-mounted Universal Testing Machine with full computer control and precision AC servo drive system. High speed operation for efficient material testing up to 3kN capacity.



	X250-1	X250-2.5	X250-3
Force Capacity kN	1	2.5	3
Accuracy	Better than +/- 0.5% of reading down to 1/1000th of load cell capacity		
Crosshead travel mm	630	990	990
Vertical space mm	800	1160	1160
Position Control Resolution mm	0.000001	0.000001	0.000001
Throat depth (force axis to column)	108	108	108
Minimum Speed mm/min	0.00001	0.00001	0.00001
Maximum Speed mm/min	2500	2500	2500
Speed Accuracy	+/- 0.1% under stable conditions		
Max force at full speed kN	1	2.5	3
Max speed at full load mm/min	2500	2500	2500
Data Acquisition Rate (at PC)	500Hz as standard (optional 1000Hz)		
PC Connection	Ethernet (or USB via adaptor)		
Machine Configuration	Single-column, bench mounted (optional base cabinet available)		
Frame Stiffness kN/mm	8	8	8
Weight kg	58	65	65
Operating Temperature °C	-10 to +40		
Operating Humidity	+10 to +90% non-condensing		
Electrical Supply	230V, 1ph 50/60Hz (115V option available)		
Power kW	0.3	0.3	0.3

Made to measure



Fully digital testing system with high precision control and accuracy, includes automated computer control of test methods giving simplicity of operation.

High resolution load cells with accuracies better than +/-0.5% down to 1/1000th of the load cell capacity.

Automatic recognition of load cells and extensometers, with instant calibration check facility.

800% overload capability of load cells without damage.

High efficiency pre-loaded self cleaning ballscrews for fast, quiet testing. Fitted with sealed for life lubricated end bearings.

Crosshead guidance system providing precise alignment and smooth running.

Precision crosshead control via digital AC servo drive and brushless servo motor giving maintenance free operation and 23-Bit positional control.

High speed data collection systems for up to 4 synchronous channels.

6 I/O channels for additional devices such as extensometers, micrometers, calipers, balances etc.

High stiffness loading frames with solid specialised steel crossheads and rigid extruded support columns with T-slots for accessory mounting.

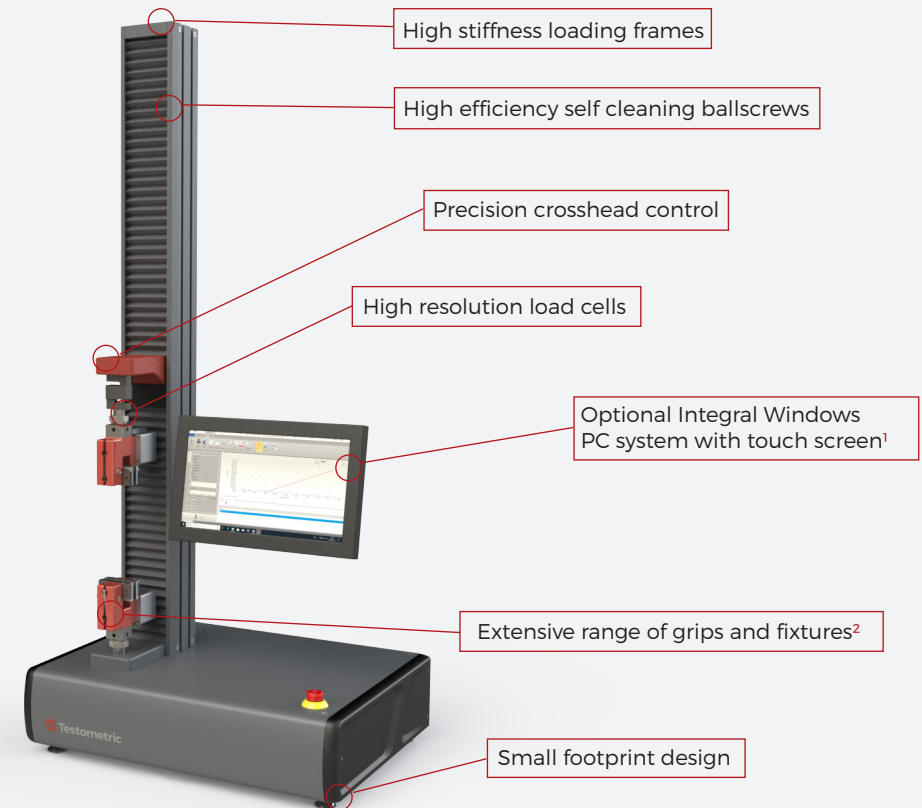
Overload, overtravel and impact protection.

Telescopic covers giving additional protection for ballscrews against dust and testing debris.

Small footprint design, giving economy of bench and floor space.

Extensive range of grips and fixtures for tension, compression, flexural, shear, peel and product testing etc.

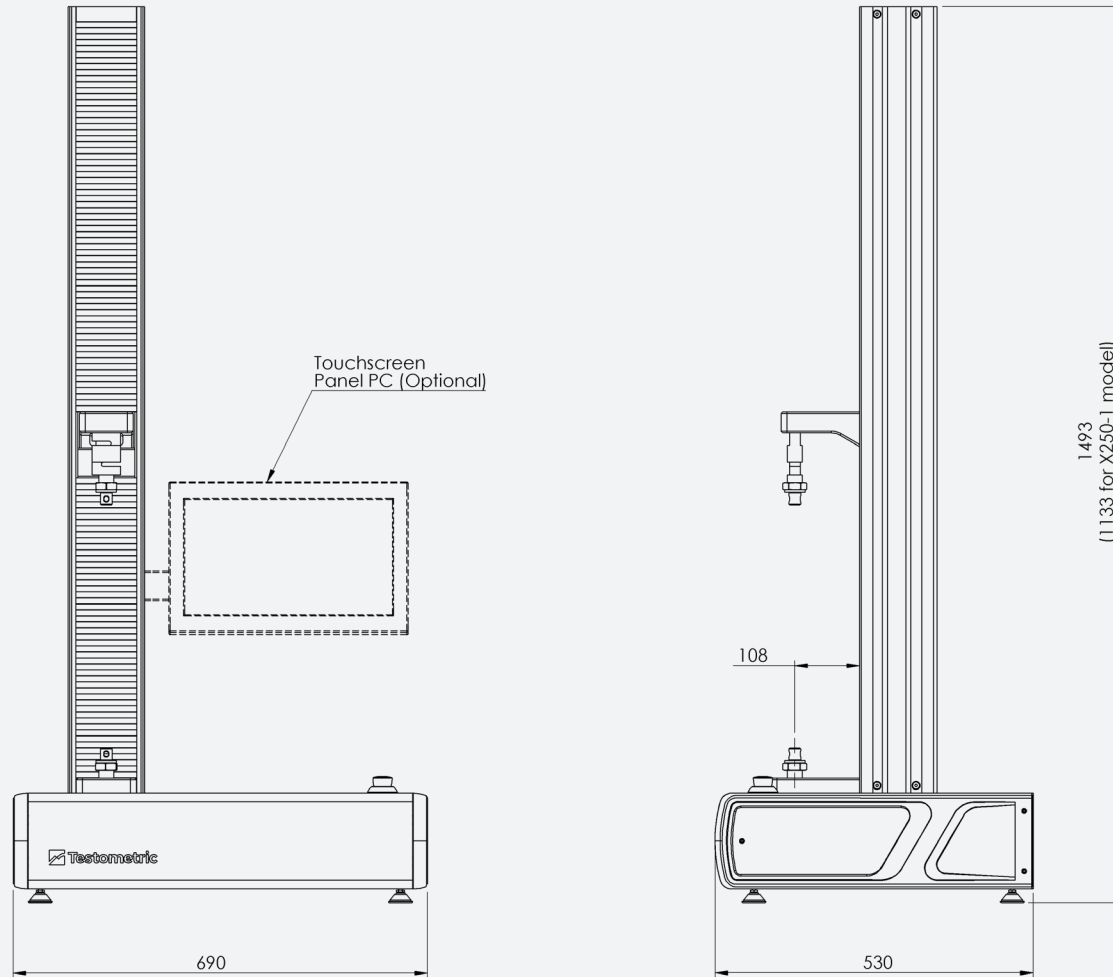
A wide range of contacting and non-contacting extensometers is available including laser and video models.



1. Available at additional cost. Machine can alternatively be controlled using a standard PC or laptop (not supplied).
 2. Machine shown with ACPN pneumatic grips (available separately).

X250 Dimensions

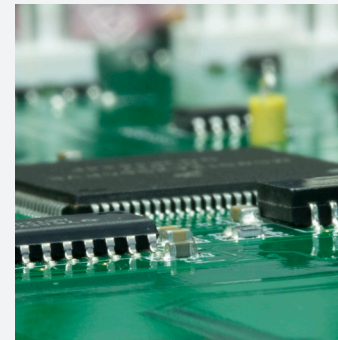
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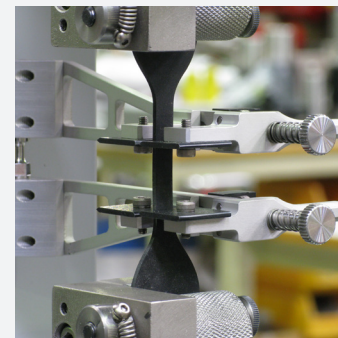
All dimensions in mm.



Large range of grips and fixtures available



High-speed modular electronics



Comprehensive range of extensometry

Built for precision

.....

Force Measurement

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

Extension Measurement

Full frame length to a maximum resolution of 0.000001mm (selectable). Accuracy +/- 0.01mm. Absolute, relative and auxiliary modes in mm, inch and percent.

Speed Control

Class-leading low speed performance with speeds down to 0.00001mm/min. Drive system temperature and current protection.

Load Frame

Rigid frame, using precision linear guidance system and rigid extruded support column. Frame stiffness 8kN/mm plus K factor facility built-in. Re-circulating ball screw with bellows. Electronic limit trips, total travel trips and customer programmable safety stops.

Electronics System

Modular electronics system offers fast data transfer to the PC (up to 1000Hz) via high-speed Ethernet connection. Extensive input options allow the connection of a wide range of extensometers and accessories via simple plug-in interface modules.

Safety Features

Extensive safety features to ensure highest levels of operator safety, including E-Stop, programmable extension limits and overload/impact detection. Fully compliant with global safety directives:- 2006/42/EU Machinery Directive, 2014/35/EU Low Voltage Directive and 2014/30/EU Electromagnetic Compatibility Directive.

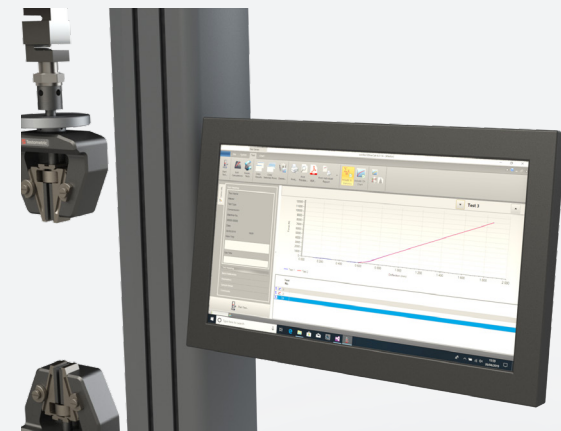
Optional Touchscreen Panel PC

When paired with the optional IPC3 industrial-grade Panel PC with touchscreen control, the machine becomes a robust standalone system without the need for an external PC or Laptop.

Using the latest Windows 10 operating system and running a full version of Testometric's winTest software the system allows complete control of the test machine and provides storage and access to unlimited test methods and results. The included mounting arm which attaches to the machine column T-Slots is fully adjustable for height, reach and viewing angle allowing the user to find the most ergonomic working position.

Specification:-

Display 15.6" 1366x768 panel resistive touch screen with anti-reflective, dirt repellent screen protection.
QM87 Chipset, 4xUSB3.0, 3xCOM ports [RS232], 2xGigaLAN.
CPU-i5-4300M Intel Core i5 Processor, 2.6GHz.
4GB 1600MHz SODIMM DDR3 204-pin
2.5" 250GB, Solid State Disk (SSD), SATA III 6GB/s



Tried and tested software

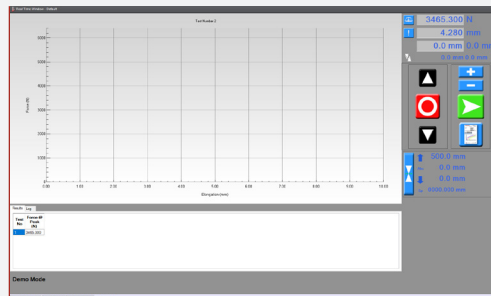


All Testometric models are supplied with our comprehensive winTest Analysis software package.

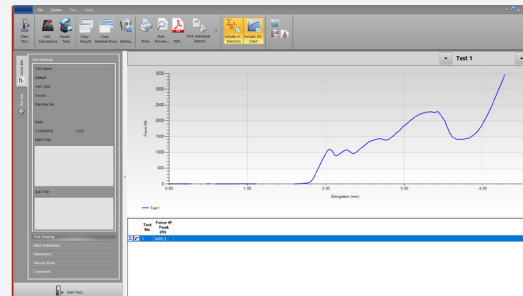
The product of many years of continuous development, winTest Analysis provides a flexible and intuitive software package to suit all types of material testing. With built-in test methods covering tensile, compression, flexural, peel, shear, tear, cyclic, creep and multi-stage tests.

It includes a wide range of industry standard test methods and the facility to create and store an unlimited number of further test methods. There is automated storage of all test data and ease of export to other software packages such as word, excel, access and SPC systems for enhanced report generation.

Please refer to the winTest software datasheet for further information.



Real time test screen



Test analysis screen



Standing the test of time



Testometric is a private limited company that has been involved in the design and manufacture of testing machines and quality control equipment since its foundation in 1970.

Fifty years of continuing development has resulted in a main product line of universal strength testing machines for tension, compression, flexure, shear and product testing. Testometric machines are used in over 100 countries worldwide and supported by a network of offices and approved agencies.

Testometric is established in all industries and educational sectors and we have an enviable reputation for innovation, product quality and excellent customer support.

testometric.co.uk