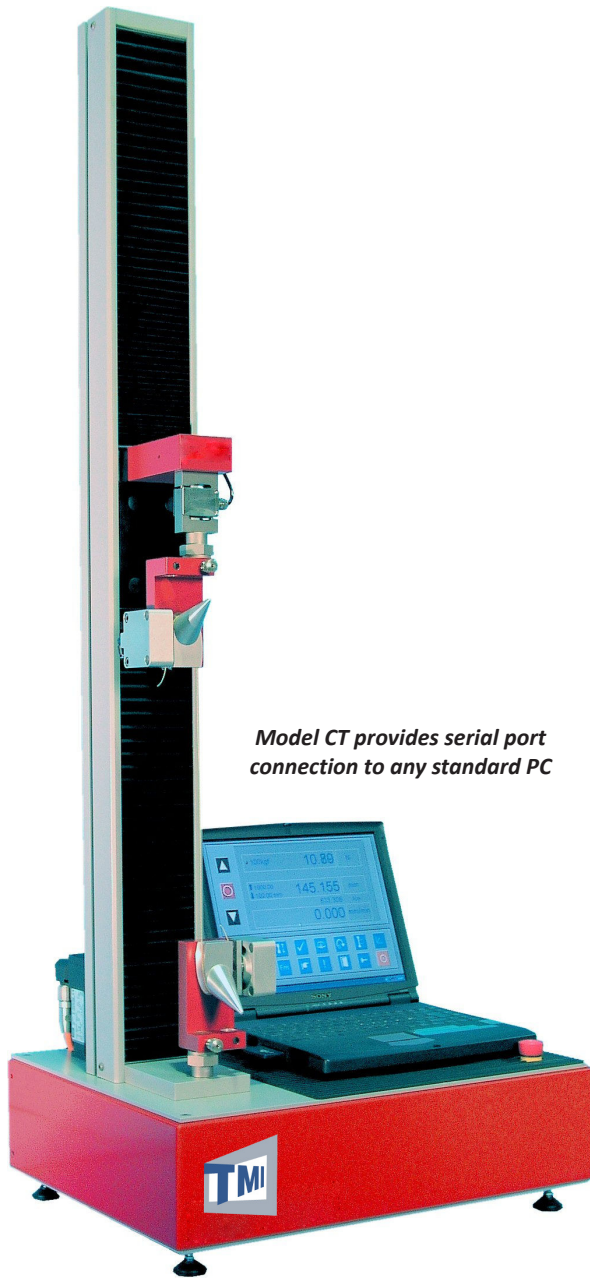




Universal Tester 2.5kN CT

Model 84-02-02-0009



Model CT provides serial port connection to any standard PC

FEATURES

- For use with your own laptop
- Fully digital testing system with high precision control and accuracy, includes automated computer control of test methods giving simplicity of operation
- High resolution auto ranging load cells with accuracies better than +/-0.5% down to 1/1000th of the load cell capacity
- Automatic recognition and calibration of load cells and extensometers, with instant calibration check facility
- 800% overload capability of load cells without damage
- Small footprint design, giving economy of bench and floor space
- 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 4,000,000 steps per revolution positional control
- High speed data collection systems for up to 4 synchronous channels
- 6 I/O channels for additional devices such as extensometers, micrometers, callipers, 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
- Extensive range of grips and fixtures for tension, compression, flexural, shear, peel, etc.
- A wide range of contacting and non-contacting extensometers is available including laser and video models

The 2.5kN is a single-column, universal tester. In stand-alone mode the machine can be programmed with up to 100 different test methods ranging from the most basic to the most sophisticated machine control, all with full graphics and statistical display. It is the ideal solution to testing problems where there is a need for precise, efficient and consistent performance.

APPLICATIONS

Plastics, Cord, Textiles, Food, Rubber, Nonwovens, Packaging, Adhesives, Wire, Wood Products and Composites

Universal Tester 2.5kN CT

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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 with autoranging. Electronic load cell protection.

Extension Measurement

Full frame length to 0.001mm. Resolution 0.001 min. Accuracy 0.01mm. Absolute, relative and auxiliary modes mm, inch and percent. Programmable extension limits.

Speed Control

Drive system temperature and current protection. Positional jog speed 0.001mm/min to maximum. Speed setting increments 0.001mm/min.

Load Frame

Rigid frame, using dual slide crosshead 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. Rubber mat front protection.

Software

Comprehensive winTest™ Analysis universal windows software covering tensile, compression, peel, shear, tear, cyclic, creep and multi stage testing. It includes a wide range of industry standard test methods and 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. winTest™ Reports is an enhancement to winTest Analysis to add flexibility to data analysis and statistical reporting. The package provides a report generation capability that can include long-term statistics and control charts for all specified calculations. winTest Reports™ can also be configured to display headings, titles, company logos, graphs, charts, pop-up menus and specific technical information.

Options

In addition to standard fixtures we can test your specimens in our applications laboratory and design special grips and fixtures for custom applications. Models are available with extended frames and wider throat.

Specifications

Model CT	84-02-02-0009		
Range kN	2.5	Max speed at full load	1000 mm/min
Power kW	0.3	Weight kg	82kg (181 lbs)
Vertical space mm	1170	Number of Columns	1
Crosshead travel/ resolution mm	1000 by 0.001	PC-Controlled	Windows™ XP Software
Throat mm	200 ∅	Operating temp degree C	-10 ° to +40 °
Frame stiffness	5 kN/mm	Operating humidity	+10 to +90% non-condensing
Speed range	0.001 to 1000 mm/min	Machine Configuration	Table top, base cabinet available
Speed Accuracy	+/- 0.1% under stable conditions.	Data Sampling rate	Maximum 12kHz with up to 200Hz data frames
Crosshead Guidance	Linear slides integral within column	Overall dimensions W x D x H	590 mm x 450 mm x 1475 mm 23 in x 18 in x 58 in
Max force at full speed	2.5 kN	Electrical supply	Dual input selectable 115 or 230V, 1ph 50/60Hz.
Accuracy	+/- 0.5% of reading down to 1/1000th of load cell capacity.		
Available load cells	5N, 10N, 20N, 100N, 250N, 500N. 1kN, 2.5kN - Maximum of four load cells up to capacity of machine.		

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