

# UNIVERSAL TESTER CT 3.0 kN

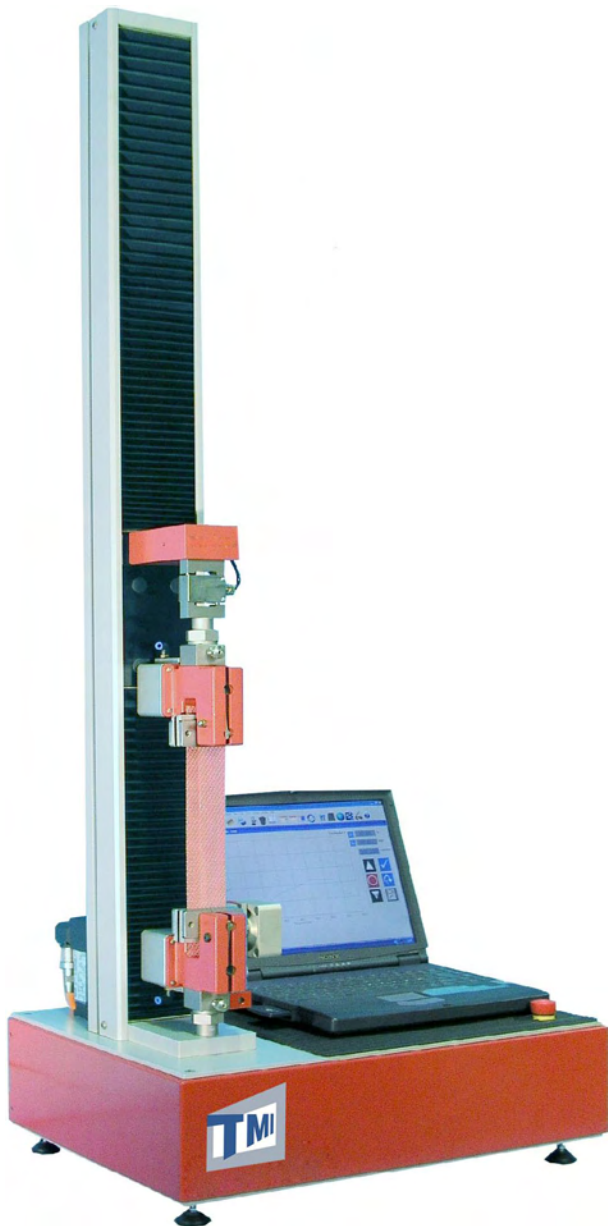
84-02-02-0010



## Affordable Textile Testing

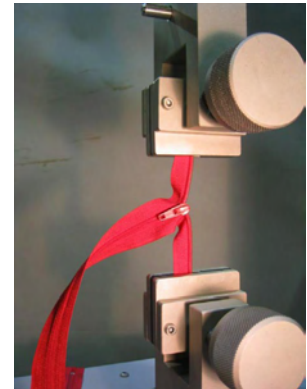
Model 84-02 is a single column PC- Controlled Universal Materials tester. The unit has a maximum capacity of 3.0 kN and is designed to meet a variety of ISO, ASTM and M & S Standards for Fabrics, Yarns and Non-woven materials. winTest™ PC-based software calculates all textile force measurement methods including: Fabric and Yarn Tensile, Seam Slippage, Peel/Tear and Ball Burst.

A variety of fixtures and attachments are available for garment testing and other physical property measurements for Textiles.



## 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  $\pm 0.5\%$  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 and product testing etc.
- A wide range of contacting and non-contacting extensometers is available including laser and video models.



# winTest™ Analysis

## Powerful Software

winTest™ Analysis universal testing software is a multi-functional and fully customizable software package that supports all industry standards including ISO, ASTM and BS EN specifications. Test specifications supported include tensile, compression, flexural, peel, tear, burst, adhesion, shear, cyclic and hardness. Additional flexibility is provided by user-defined multistage step testing for highly specialised testing requirements.



## Easy to Use Touch Screen

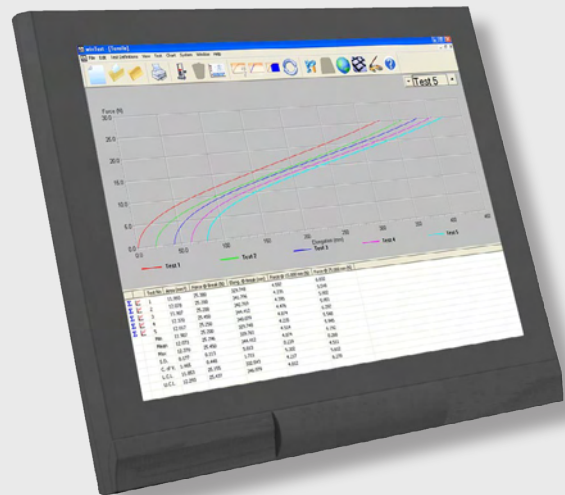
The on screen control panel allows the operator full control of all tester functions and the ability to conduct manual tests. It give easy access directly to stored test methods and many other functions. Interactive touch screen facility is available on AT models.

## Enhanced Graphics

Multiple result/graphs test sheets.  
Graphs with zoom facility.  
Real-time graphs.  
Test results using industry standard calculations.  
Gradients or critical sections of graphs with movable marker.

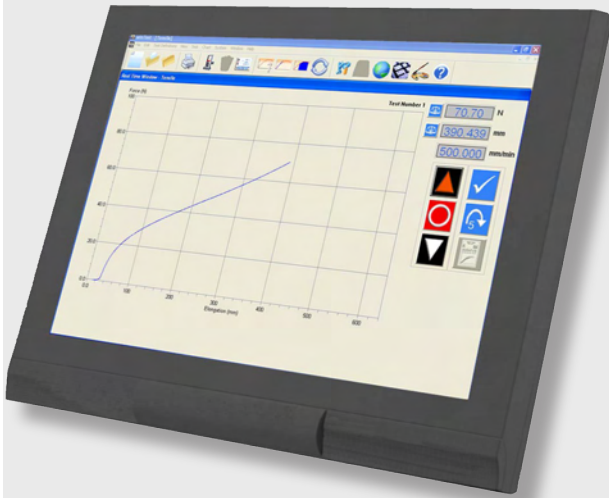
## Develop Your Own Methods

User defined machine control routines.  
Customized test calculations  
Auto scaling graphical displays.  
Comprehensive print outs  
Interface with peripheral equipment.  
Graphs with configurative axes, best fit



*Touch Screen Available on AT models*

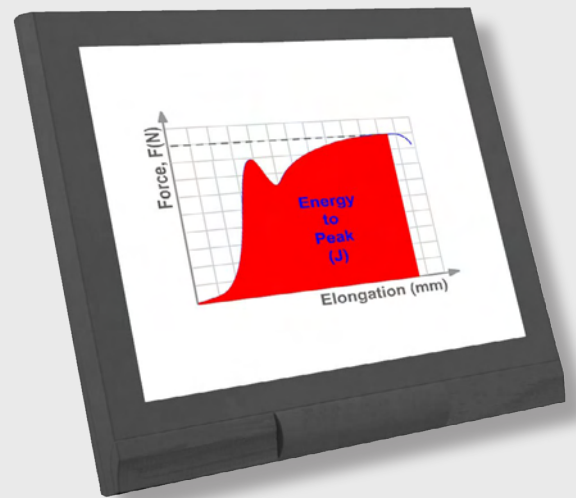
## Additional Features



- Pre-defined industry standard test methods available.
- Ability to create and store unlimited number of additional test methods.
- Comprehensive stored library of industry standards calculations.
- Graphical representation of all stored calculations.
- Retrospective analysis of all test calculations.
- Selectable pass fail criteria for all calculations.
- Upper and lower limits cursors displayed on graph screen.
- Multi-lingual support with one key press.
- Support for a wide range of peripherals including balances, extensometers, thickness measurement devices, temperature chambers etc.
- Operates under Windows 98™ se, NT, 2000, XP

## Analyze your data your way

Copy your results into Microsoft™ Word to produce your own presentation-quality test reports. Output your data in CSV format for importing into spreadsheets including Microsoft™ Excel and standard 'off-the-shelf' SPC packages and Laboratory Manager software. Convert your results into Microsoft™ Access database format. Additional modules are also available that will filter test data to produce long term statistical data that can be used for creating SPC charts for detailed trend analysis Operates under Windows™ 98 se, NT, 2000, XP



## Hardware requirements

Minimum System

Windows™ 98 Second Edition

1GHz Processor

128 MB RAM

250 MB hard disk space. This is only to install the software, the program also requires hard disk space to store data, this should also be taken into consideration.

Both computer and monitor must be capable of displaying a resolution of 1024 x 768.

CD-ROM drive for installation.

1 x Free serial port

*Touch Screen Available on AT models*

## SPECIFICATIONS

<b>Model CT</b>	84-02-02-0010		
<b>Range kN</b>	3	<b>PC-Controlled</b>	Windows™ XP Software
<b>Accuracy</b>	+/- 0.5% of reading down to 1/1000th of load cell capacity.	<b>Overall dimensions W x D x H</b>	590 mm x 450 mm x 1475 mm 23 in x 18 in x 58 in
<b>Vertical space mm</b>	1170	<b>Weight kg</b>	82kg (181 lbs)
<b>Crosshead travel/resolution mm</b>	1000 by 0.001	<b>Electrical supply</b>	Dual input selectable 115 or 230V, 1ph 50/60Hz.
<b>Throat mm</b>	200 Ø	<b>Operating temp degree C °</b>	-10 ° to +40 °
<b>Frame stiffness kN/mm</b>	5	<b>Operating Humidity</b>	+10 to +90% non-condensing
<b>Speed range mm/min</b>	0.001 to 1000 mm/min	<b>Machine Configuration</b>	Table top, base cabinet available
<b>Speed Accuracy</b>	+/- 0.1% under stable conditions.	<b>Data Sampling rate</b>	Maximum 12kHz with up to 200Hz data frames
<b>Crosshead Guidance</b>	Linear slides integral within column	<b>Available load cells</b>	5N, 10N, 20N, 100N, 250N, 500N. 1kN, 2.5kN, 3kN Maximum of four load cells up to capacity of machine.
<b>Max force at full speed kN</b>	3	<b>Number of Columns</b>	1
<b>Max speed at full load mm/min</b>	1000	<b>Power kW</b>	0.3

### 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, mm 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.

### Model 84-02-02-0010 meets the following International Textile Standards for Tensile Strength:

ISO 13936-1, ISO 2062, ISO 1670, ISO 5081, ISO 5082, ISO 13934, ISO 13936, ISO 13937

M&S P-11:2001, M&S P-12:2001, M&S P 115:2001, M&S P-98:2001

ASTM D-434, ASTM D-1578, ASTM D-2061, ASTM D-2256, ASTM D-2653, ASTM D-2724, ASTM D-3822, ASTM D-5034

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