



## winTest™ Analysis EC

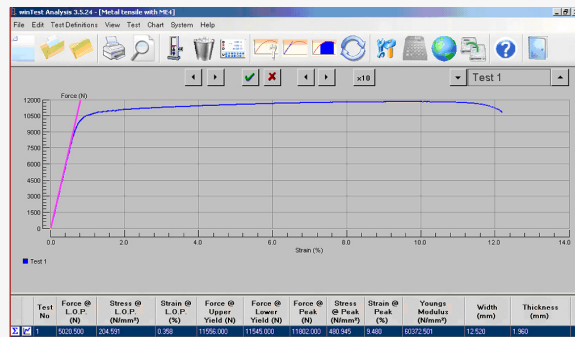
winTest Analysis universal testing software is a fully-integrated and fully-customisable package that supports all industry standards including ISO, ASTM and BS EN specifications.

Test types supported include tensile, compression, flexure, peel, tear, burst, adhesion, shear, spring, cyclic, friction and Brinell hardness. winTest Analysis is very flexible providing simple peak force testing or complex user-defined multistage step testing for specialised testing requirements.

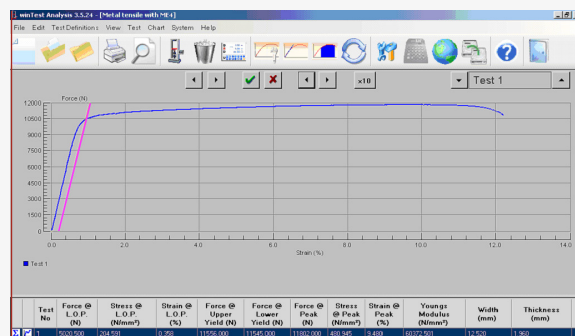
The virtual control panel allows the operator full control of all tester functions and the ability to conduct simple tests manually. The control panel provides easy access to stored test methods, system configuration and diagnostics. The optional Panel PC also features touch screen technology to provide a very efficient and easy-to-use interface.

## Key Features

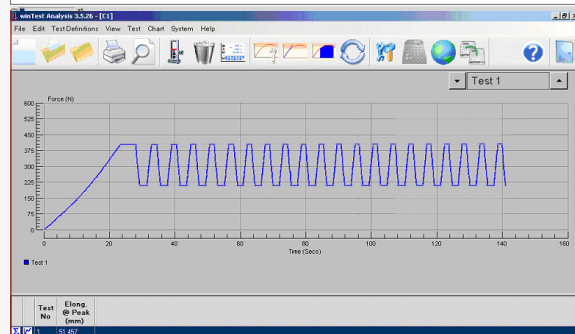
- Intuitive and simple-to-use operation and set-up.
- User-defined machine control routines.
- Configurable trigger points for sample break detection, with multiple methods.
- Configurable statistics summary for each test report.
- Customisable test calculations.
- Pass/Fail tolerance bands
- Fully-configurable test reports.
- Pre-defined industry standard test methods available.
- Comprehensive library of industry standard calculations.
- Display of best fit straight line in the elastic region, for calculation of E modulus, proof stress etc.
- Transfer of test data to Excel, Word and Access
- Import and export of test definitions in XML format.
- Golden sample, a test curve can be selected as a reference and tolerance bands can be set to provide an instant visual check that all subsequent tests are within tolerance.
- Video extensometer image processing software, including transverse and multi point measurement.
- Direct connection to customer network systems.
- Crosshead speed control selectable in either linear, load, stress or strain rate.
- Sequential calculations to take measurements at set intervals for long term tests etc.
- Custom statistics can be generated for selected calculations.



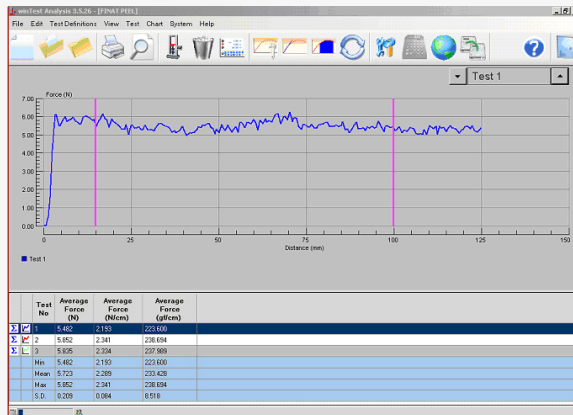
Best fit straight line in elastic region



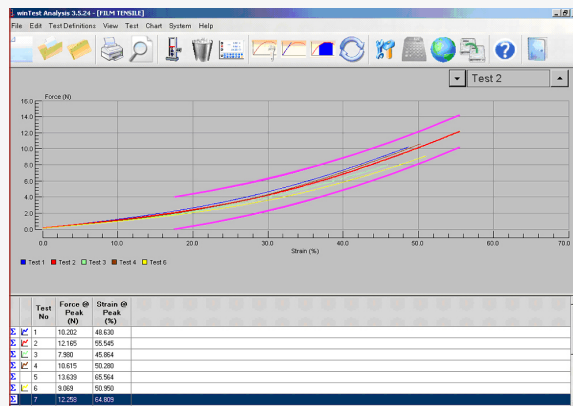
Offset proof values



Multi stage test method



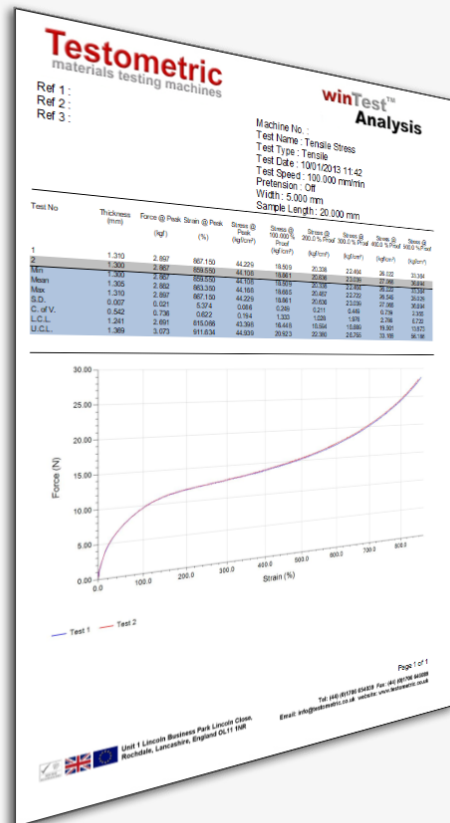
Selected calculation regions



Golden sample

## Key Features (continued)

- Multi level password security.
- Audit trail to log activities performed during any use of the machine and software.
- Direct connection to Testometric control centre for on line service, software upgrades, test method download etc. (with RCE option)
- Event marking during real time plotting of test curve.
- Retrospective analysis of all test calculations.
- User-defined header and footer on test reports.
- Export test results and raw curve data in ASCII format.
- Generate test reports in PDF format for email etc.
- Calculate results on pre-defined test regions.
- Multi-lingual support with one key press.
- Support for an extensive range of peripherals including balances, extensometers, thickness gauges, contractometers, environmental chambers etc.
- Load cell calibration check log for reference and diagnostics.
- Comments field and custom columns available for each test series and for individual tests.
- Auto-print and preview option.
- Tester system diagnostics integrated into software.
- Intergrated Help file with graphical representations of stored calculations.
- User-friendly test data backup can be configured for periodic reminders.
- Industry specific or bespoke test standards installer available.



## Test Reports

Include your own company logo and company details as Header and Footer on your test results to produce professional looking test reports.

Test reports can also be exported\* to Microsoft Word™ and/or Excel™ to provide you with full editing features and copy and paste capability to produce presentation-quality test reports, charts or test data in spreadsheet format.

## PDF Creation and Email

Convert your test report into an Adobe™ PDF file so you can simply email your test report as a PDF attachment. You can also email your test reports as a Microsoft Word™ document or an Excel™ file.

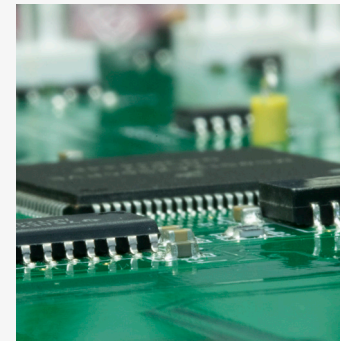
## Calculations

The software includes an extensive range of calculations applicable to many industries, including all variations of force, elongation, stress and strain values and many others. Some examples are listed below.

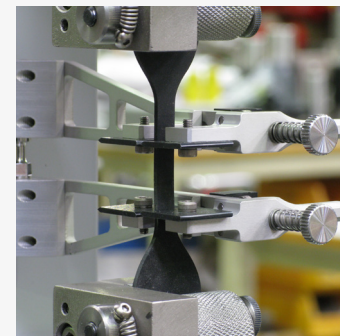
Average Force	Strain @ Force (Return Cycle)	Stress @ % Height
Average Force / Width	Strain @ Force (Stage)	Force @ Time
Bending Modulus	Stress @ Peak	Deflection @ Time
Crush Force (Edge)	Stress @ Proof	Secant Stiffness
Deflection @ 1st Collapse	Stress @ Strain	Stress @ Relative Deformation
Deflection @ Force (Stage)	Stress @ Yield	Time to Peak
Dynamic Co-eff of Friction	T.E.A.	Time to Failure
Elongation @ Break	Tenacity	LOP
Energy to Break	Transverse Rupture Strength	MOR
Energy to Yield	Unseamed Strength	Strain to LOP
Initial Modulus	Youngs Modulus	Strain to MOR
Force @ Peak	Chord Modulus	Ym
Force @ 1st Collapse	Tangential Modulus @ Strain	Average Peaks (Selected Region)
Force @ Elongation	Tangential Modulus @ Stress	Percentage Reduction of Area
Force @ Proof	Secant Modulus @ Strain	Spring Rate Between Forces
Force after Stage	Secant Modulus @ Stress	Spring Rate Between Deflections
Lowest Force	Strain @ Limit of Proportionality	Density
Seam Opening Force	Force @ Rupture	Chewiness
Seamed Strength	Strain @ Rupture	Fracturability
Static Co-eff of Friction	Average of 5 Highest Peaks	Hardness
Strain @ Break	Bend. Strength @ Peak	Poisson's Ratio
Strain @ Force (Load Cycle)	Bursting Strength	Plastic Strain Ratio r



Large range of grips and fixtures available



High-speed modular electronics



Comprehensive range of extensometry

## Advanced Options

### Trend Analysis

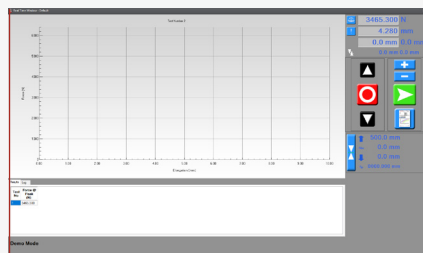
Export selectable test data in ASCII delimited format to Microsoft Excel™ or other spreadsheet software to analyse test result trends over a user-specified time period or production batch. Represent test result trends graphically using the charting features Excel™ to review trends 'at a glance' and also produce presentation-quality trend analysis reports.

### Standards Installer

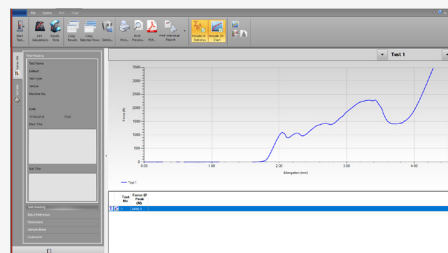
Eliminate the need to interpret standards and manually configure the software by using pre-defined test methods based on an extensive range of industry standards. These can be installed as separate modules or installed as an industry-specific package to give you access to an impressive set of test methods and test calculations ranging from basic tensile tests to complex multistage tests. You can preview the test methods to verify and ensure the correct one has been selected before you start testing.

### Multi-Language Support

The software language can easily be selected from a wide range of options to ensure ease of use in all regions. Test reports are automatically converted allowing clear communication of results with overseas customers.



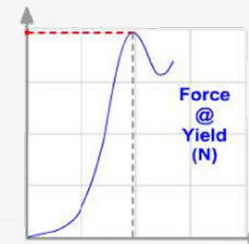
Real time test screen



Test analysis screen

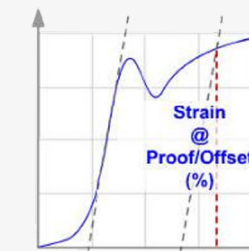
## Integrated Help System

winTest Analysis has an integrated HTML Help file with added search function that includes simple explanations of machine operation, test result descriptions and graphical Flash™ representation of tests and test calculations. View graphically how specific test results are calculated to help you verify the correct selection of test calculations.



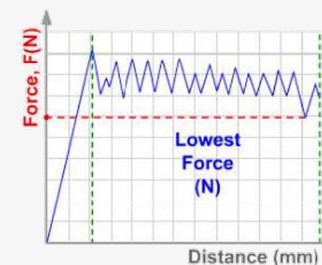
### Force@Yield

The force at which extension/deflection increases without a corresponding change in force (normally just beyond the elastic limit of the sample). Followed by a decrease in force.



### Strain@Proof

The percentage elongation/deflection at which the straight-line gradient of stress against strain, when the sample is below its elastic limit (limit of proportionality) is offset by a specified fractional strain. Divided by the original cross sectional area of the sample



### Lowest Force

The lowest force after the initial peak force.



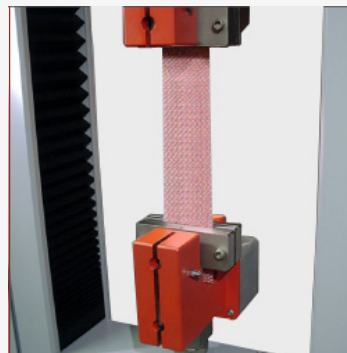
## Industries

Testometric systems are in worldwide use in almost every industry for both routine quality control testing and specialised research and development.

Aerospace	Bedding	GRC
Automotive	Cargo Restraints	Rope & Nets
Cable and Wire	Toys	Insulation
Clothing	Concrete	Furniture
Adhesives	Fibre	Footwear
Food	Metals	Springs
Pipe	Packaging	Timber
Adhesive tape	Cord and Rope	Foam
Containers	Elastic	Wood based Panel
Credit Cards	Geotextiles	Plastic film and sheet
Military	Medical	Corrugated board & Boxes
Constructions	Rubber	Yarn & Cord



Container Testing



Fabric Testing

## System Requirements

**Processor** 2 Ghz or above Intel processor, or an AMD processor.

**Memory** 4 GB Minimum  
8 GB Recomendded.

**Communications** 1 x Free Ethernet (RJ45) connection. Other devices will require additional serial or USB ports. Video Extensometers will require a USB 3.0 connection.

**Hard Disk** 50 GB hard disk space. winTest also requires hard disk space to store data, this should be taken into consideration.

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

**CD Drive** CD/DVD drive required for installation.

**OS System** Microsoft Windows 7 (32 bit and 64 bit)  
Microsoft Windows 8 (32 bit and 64 bit)  
Microsoft Windows 10 (32 bit and 64 bit)

**Software** Microsoft .Net Framework 2.0 Redistributable (On Disk)  
Microsoft SQL Server Compact 4.0 (On Disk)  
Windows Installer 3.5