

TestWorks® 4



Continuing to set the standard for material,
component, and subassembly testing software

Streamline

Customize

Expand

Simplify



Stress
0.000
ksi

Time
55.750

Runs on
Windows™ XP
Windows™ 2000
Windows NT™
operating
systems

Less time learning and programming means more time testing

The TestWorks 4® universal testing software package can be configured for most ASTM, ISO, and DIN specifications and other standard or custom testing requirements. Coupled with an MTS electro-mechanical or servohydraulic load frame (or other load frame fitted with a ReNew™ controller upgrade), TestWorks 4 software can be used to test materials, components, subassemblies, and finished goods to support research, product and process development, and quality control. TestWorks 4 software continues our mission of meeting customer needs and enhancing the quality and capability of your testing.

Thanks to you

More than 20 years have passed since MTS pioneered the first PC-based automation package for material testing. During this time, continuous input and feedback from thousands of customers have been implemented into our products. TestWorks 4 software is the latest step in this process, combining the ultimate in power and capabilities available today in software and computers.

Make Life Easy

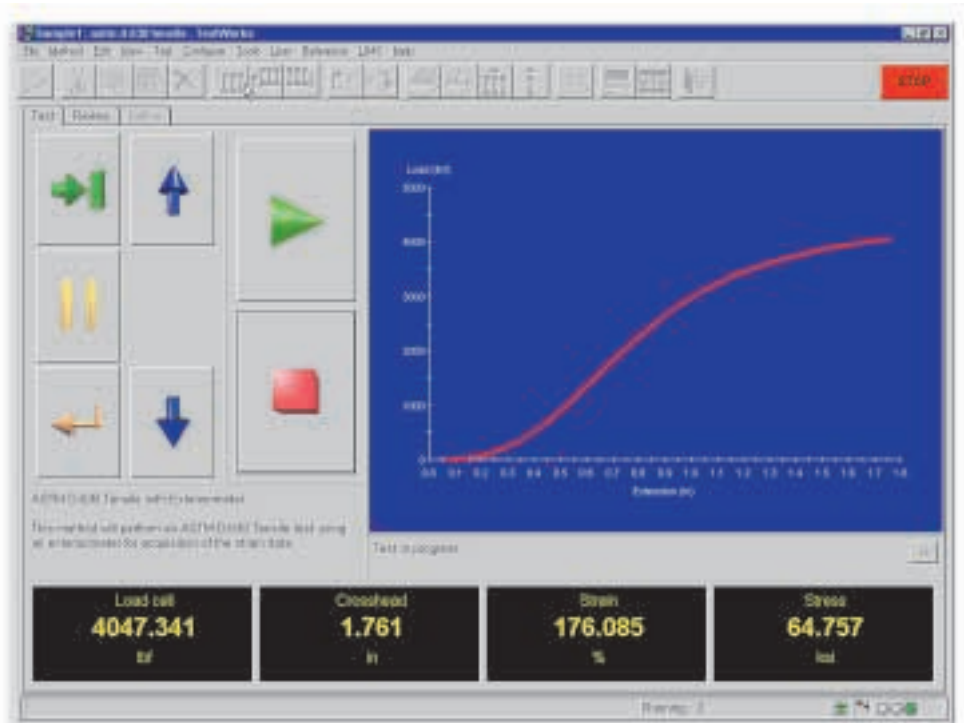
TestWorks 4 makes life easy in your testing lab. This innovative software allows you to:

Streamline your procedures and operations with a program that adapts to the way you want to work.

Customize each software function to meet your most demanding requirements and applications

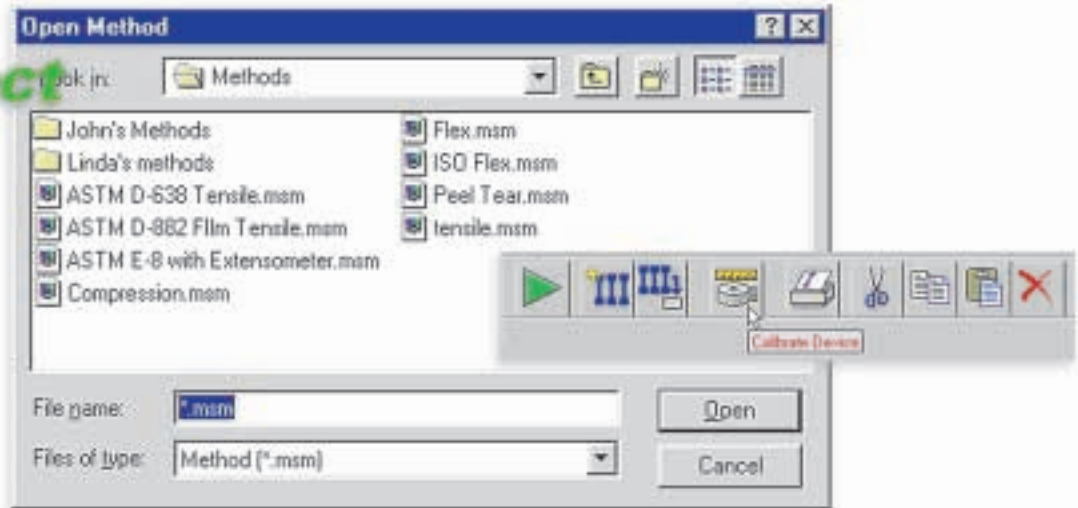
Expand your testing capabilities to meet new challenges, now and in the future

Simplify testing for your company and staff, providing them with the best tools to do their jobs.



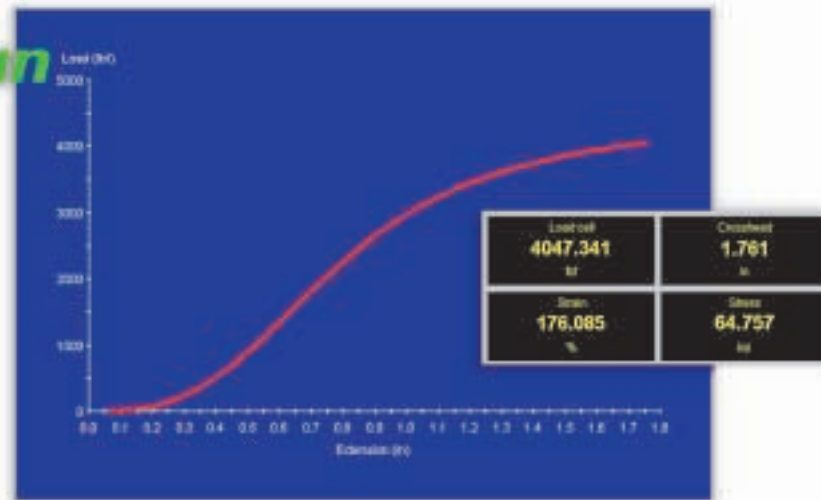
Testing is easy as 1-2-3

Select



Configure your testing environment to run virtually any standard or custom test. Develop a script for your entire test from start to finish to simplify testing.

Run



Monitor your test on-screen while it runs, through real-time autoscaling graphics and digital displays.

Report

Sample ID	Method	Test Date
ABC-456	ASTM D-638 Tensile	2010 October 15 10:30 AM

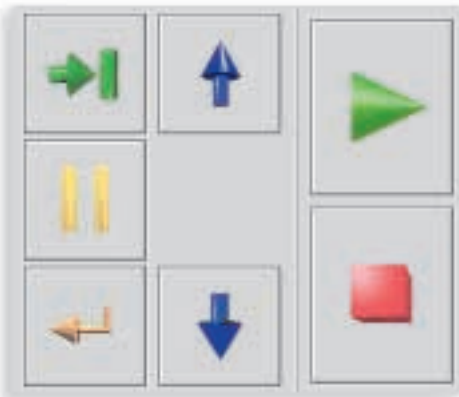
Sample ID	Method	Test Date
ABC-456	ASTM D-638 Tensile	2010 October 15 10:30 AM

Choose from a variety of standard calculations or create your own custom formulas to analyze or re-analyze your data. Create presentation-quality reports and plots from standard templates or customize your output for special needs.

Productivity and convenience that fit the way you want to work

TestWorks 4 software helps you increase productivity in your testing lab. You can sequence your tests to fit the way you want to work and customize your testing environment to make it easy for operators to run tests, no matter what their skill level.

Streamline



The enhanced Virtual Control Panel allows you to control the machine from your computer interface. It provides start/stop, jog, goto, return, and pause functions from the keyboard or mouse. No other testing software package provides this level of machine control and flexibility.

Test sequencing

TestWorks 4 allows you to design your own test flow and sequence the way your lab works.

Interface setup

Customize your interface to make life easy for your operators and technicians.

Choice lists

Select among options for all inputs, comments, and results to give your test data real meaning.

Network integration

TestWorks 4 software provides full network functionality for data and method storage, sharing, and backups.

Full automation

Robotic systems, including automatic extensometry, make repetitive applications more efficient and productive.

Security

Protect all aspects of your test data including results, methods, references, and reports.

Method Assistant

Walks you through each step of test method creation.



TestWorks 4 software comes with extensive help in many forms. Online references and manuals, hypertext and links, www links, and context-sensitive help are just some of the many features available to you.

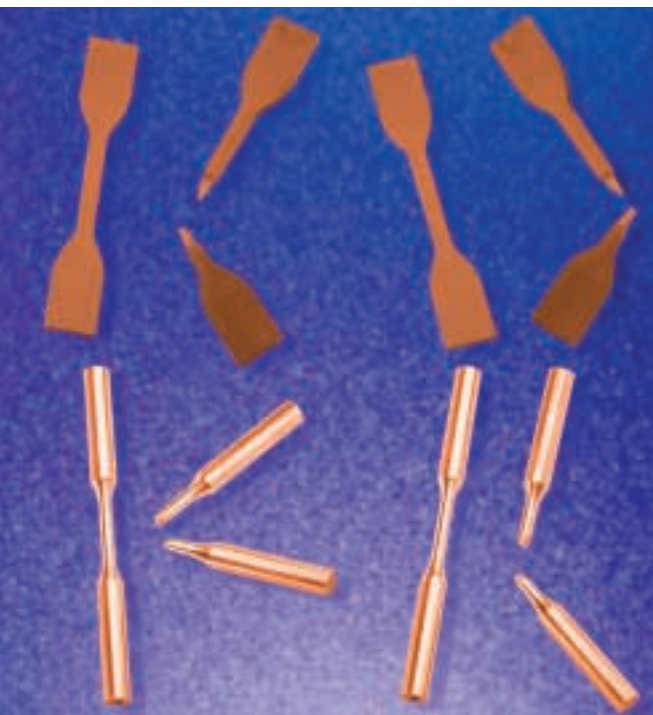
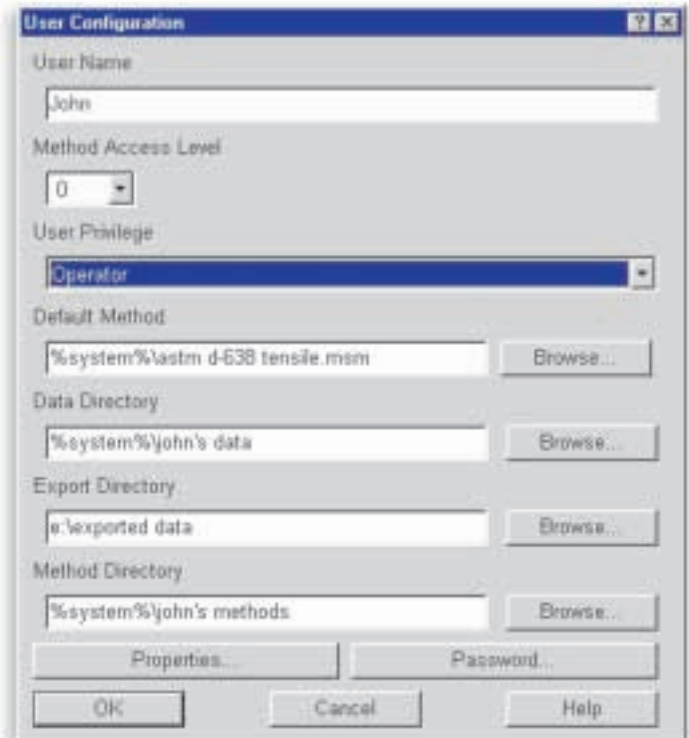




You can choose from more than 30 functions to customize each window's toolbar.

Panel Inputs	Value	Units	Report Order
Thickness	0.125	in	1
Width	0.500	in	2
Initial Speed	.02	in/min	
	.02		
	2		
	2		
	20		

TestWorks 4 software provides an unprecedented capability to increase your lab's productivity. For example, you can create choice lists for inputs such as comments, dimensions, sample information and more. Your operators choose from only the selections you provide. This eliminates typing errors and reduces the time it takes to accomplish your testing. Flexible reminders prompt operators to use the right fixturing. A lockout feature will prevent testing if an improper load cell is used.

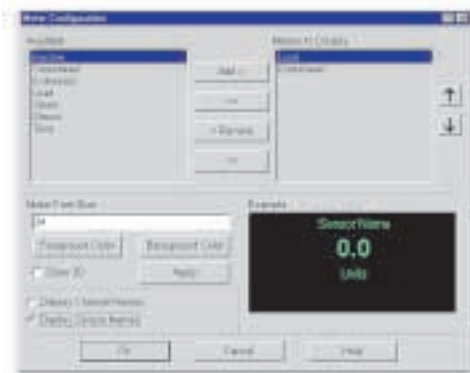


If security is a concern for your lab, you'll benefit from enhanced security features. Virtually every part of the program, data, and test methods can be protected depending on user privileges. Define file areas for any users, methods, or data on the hard drive or local area network.

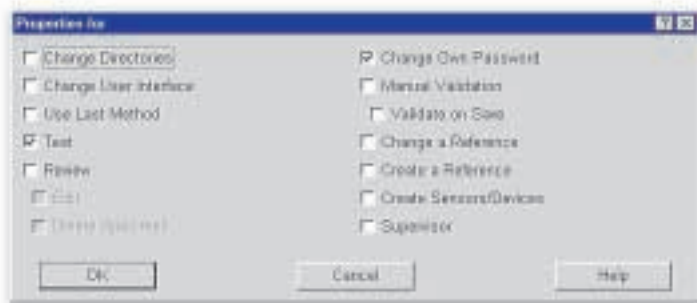
Accomplish the simple or the extraordinary

TestWorks 4 software allows you to tailor your test environment according to your preferences. Colors, windows, messages, meters, formulas, actions, and labels can all be modified for your convenience.

Customize



Display any system channel for real-time digital readout. Configure the size, color, order, and units of the channel. With the multichannel option, additional hardware or calculated channels can also be digitally displayed. Display peak values or the results of real-time calculations with ease.



You have complete control over user privileges. You can tailor each user's account to match their experience level. TestWorks 4 software allows you to keep your data safe and simplify the testing environment as appropriate for each user.

Flexible data collection

You have the power to collect data in a variety of methods to fit the unique needs of your test program.

Control and read external devices

Environmental chambers and other devices can be monitored and controlled with software options.

Method validator

Continually checks all aspects of the test method to help you correct mistakes and inconsistencies.

Multichannel option

Provides the capability to acquire additional data channels and to create new virtual (calculated) channels from existing ones.

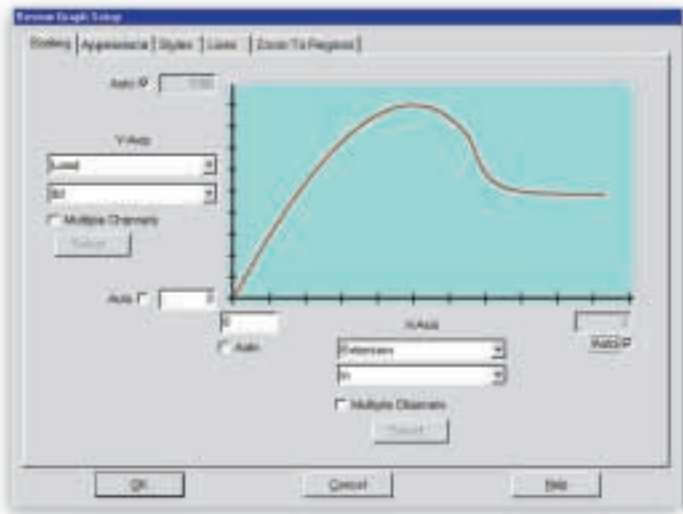
Advanced rate control option

Control off of load, strain, or virtually any data channel.

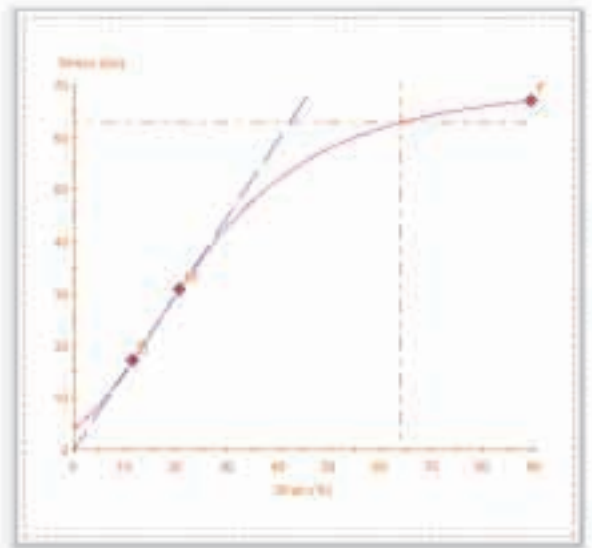
Audit trail

Built in auditing functionally supports various industry requirements such as FDA CFR 21 part 11.

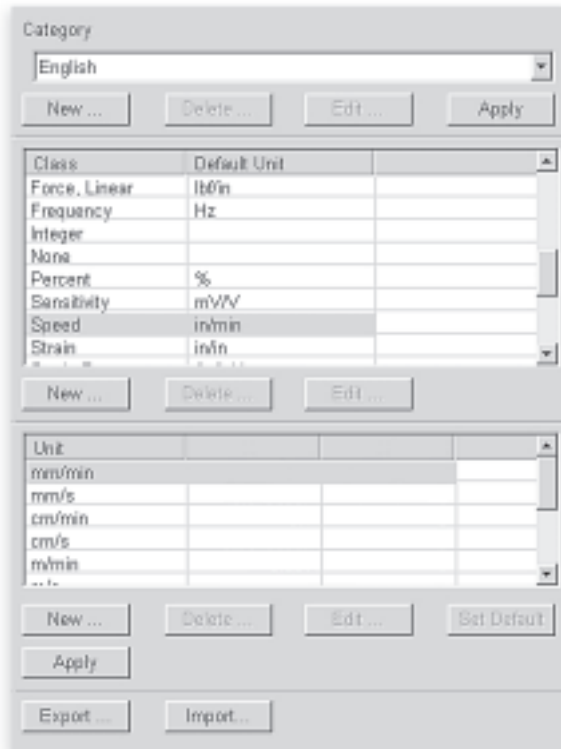




Test and review graphs can be set up independently. Configure axes, colors, line sizes, and related parameters from the setup screen. And enhance your graph with movable text, construction lines, and other details to match your testing needs.



TestWorks 4 software continues to provide maximum flexibility in interactive graphics. Movable markers, text, and construction lines are just a few of the tools available to you. Define a region for one-touch automatic zoom to the elastic region or other area of interest.



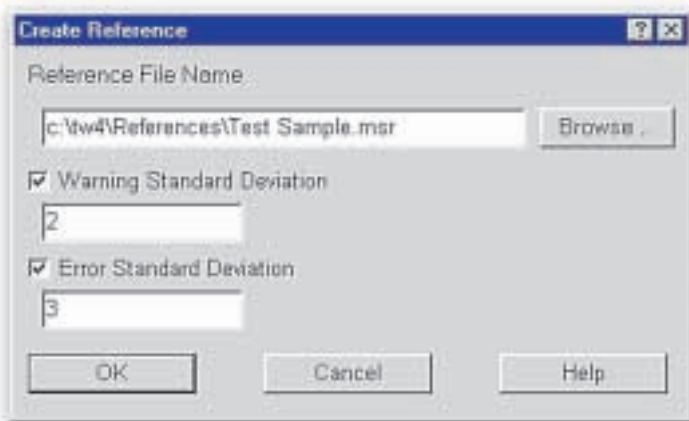
You don't need to learn conversion factors for standard testing units—they're already in the software. Choose from the unit system, classes, and types you need for your testing, or create your own custom units, unit classes, and individual units for maximum flexibility.

Integrates with your lab and the way you work

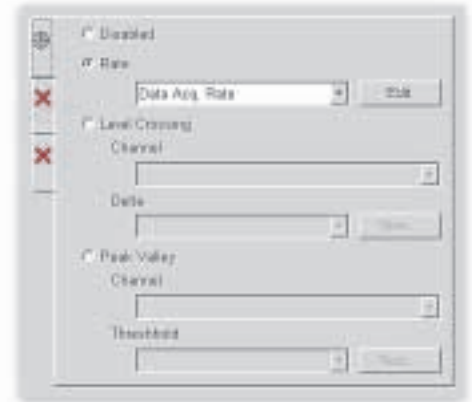
What about my special testing needs?

TestWorks 4 software provides the flexibility to perform most static material tests with just the basic package. You can configure test inputs and results, testing flow, and the user interface to meet your individual needs. Standard program options provide other capabilities such as additional channel inputs, digital inputs and outputs, advanced test sequencing, and advanced statistics.

Expand



The material reference option allows you to define reference values as a comparison tool for your testing. Compare your results with the average and limit values you create as an aid to process or quality control. Any configured test result can be compared to reference values.



TestWorks 4 software offers unprecedented flexibility in data acquisition configuration. Choose from a variety of data acquisition types depending on your test requirements. You can configure data acquisition for each part of the test, tailoring your data to your specific needs.

LIMS interface option

True bidirectional interface provides unparalleled flexibility in communications with virtually any Laboratory Information Management System.

Interface with other applications

TestWorks 4 software provides the capability to interface with commonly used application software, such as Microsoft Office applications.

Data input flexibility

Read data from your micrometer, caliper, thickness gauge, or balance/scale.

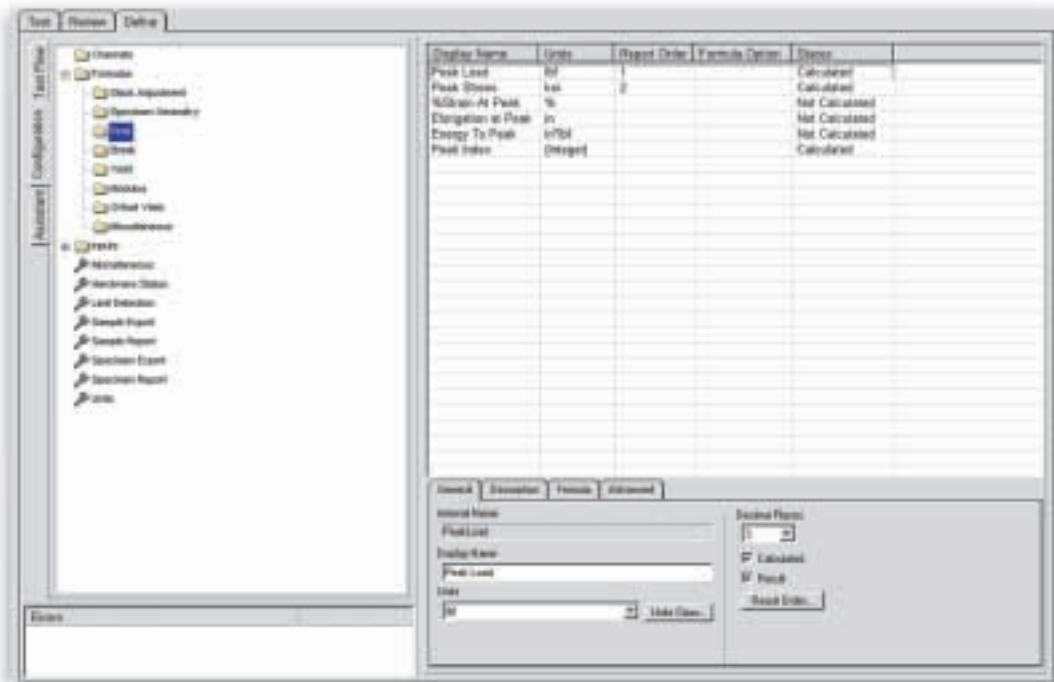
User setup flexibility

Control user access to all parts of the software, data, and test methods. Choose from levels to fit the capabilities of your operators.

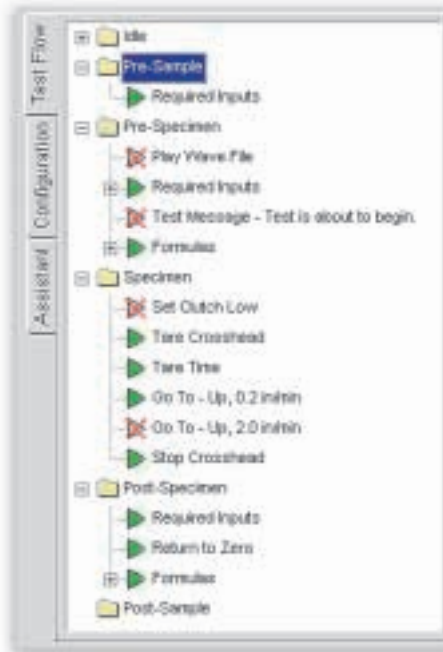
Windows interface

Leveraging the 32-bit multitasking capabilities of the Windows XP, Windows 2000, Windows NT operating systems provides you with the flexibility you need.





TestWorks 4 software provides extensive flexibility for your test configuration. Results, inputs, reports, units, and other classes are divided into logical groups for easy access. You can get to the information you need without drilling through a menu structure or cumbersome step-by-step process.



TestWorks 4 software provides a familiar graphical depiction of your test flow. Testing steps are divided into logical sections for ease of testing. Test Definers have enhanced flexibility to configure and sequence test segments such as inputs, messages, sounds, and videos.

User-friendly work environment

TestWorks 4 software is available for virtually all material testing systems on the planet. MTS can help you integrate TestWorks 4 software throughout your laboratories. Your productivity and throughput will increase dramatically as you get the results and responsiveness you expect from the world's largest supplier of mechanical testing equipment.

Simplify

How about my current testing system?

TestWorks 4 software is designed to run on virtually any static testing system and most single channel dynamic systems. MTS has been providing ReNew computer upgrades for third-party test systems for more than 20 years. ReNew™ upgrades bring state-of-the-art data acquisition and control to your older test systems. In addition, you can share test methods across systems from different manufacturers, with a common user interface to increase productivity. No other company in the world can provide you with this level of flexibility.





Make life easy with TestWorks 4

Streamline

Share test methods across all your testing systems, reducing errors and increasing throughput. Quit designing new test methods and learning new interfaces everytime you buy a piece of equipment.

Customize

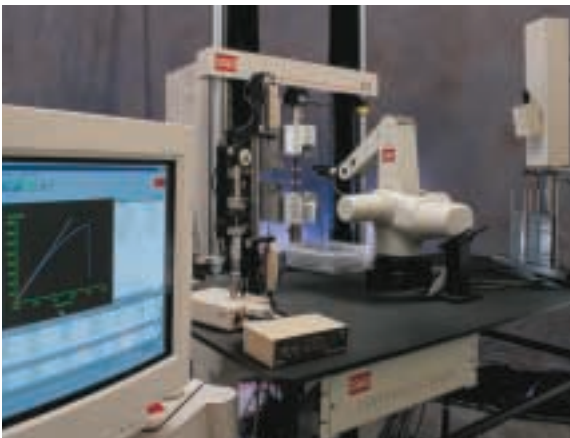
Create test methods that conform to the way you want to work. TestWorks 4 software allows you to customize virtually all aspects of the software to handle the most rugged requirements across all your equipment.

Expand

As your lab and needs expand, TestWorks 4 software has the features to help you make the most of your testing equipment. You can have confidence that MTS will stand by you with new features to make your life easy.

Simplify

A consistent user interface enables your laboratory staff to operate many types of testing systems with ease.



TestWorks 4 software supports testing automation systems, such as robotics and automatic extensometry.

TestWorks 4 software

- ▶ Runs under the Windows XP, Windows 2000, and Windows NT operating systems
- ▶ Can import data from other applications such as MTS' MultiPurpose TestWare to provide a "Reanalysis only" solution.
- ▶ Can be used with test systems from Instron, Zwick, and other manufacturers by automating those systems with ReNew upgrades from MTS Systems.

TestWorks 4 standard features

General testing package

- ▶ Tensile
- ▶ Flex
- ▶ Compression
- ▶ Peel/tear
- ▶ Compliance compensation
- ▶ Virtual control panel
- ▶ Define by example
- ▶ User security
- ▶ Interactive graphics

Optional application packages

- ▶ Metals application package
- ▶ Plastics application package
- ▶ Cellular products application package
- ▶ Textile application package
- ▶ Food application package
- ▶ Paper application package
- ▶ Adhesive application package
- ▶ Hysteresis
- ▶ Advanced cyclic
- ▶ Creep/stress relaxation

Options

- ▶ Multichannel software
- ▶ SQC/SPC package
- ▶ Advanced control option
- ▶ Batch printing
- ▶ Reference material
- ▶ Interactive LIMS interface
- ▶ Printed manual

Compatible systems

- ▶ MTS S,D,G, and M series systems
- ▶ MTS servohydraulic or servoelectric systems with TestStar or FlexTest controllers
- ▶ MTS ReNew systems
- ▶ MTS DY2x and DY3x systems
- ▶ MTS Synergie systems
- ▶ Instron® E/M systems
- ▶ SATEC™ E/M systems
- ▶ Zwick™ E/M systems
- ▶ Other E/M systems

For the latest information on testing solutions from MTS Systems, visit us on the WorldWide Web at www.mts.com.

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MTS Systems Corporation
14000 Technology Drive
Eden Prairie, MN 55344-2290
USA
Toll Free 1-800-944-1687
Fax: 1-952-937-4515
E-mail: info@mts.com
Internet: www.mts.com

**MTS Systems Corporation
Nano Instruments Innovation
Center**
1001 Larson Drive
Oak Ridge, TN 37830-8014
USA
Telephone: 1-865-481-8451
Fax: 1-865-481-8455
E-mail: nano@mts.com

EUROPE

MTS Systems
58, rue Auguste Perret
Europarc
94000 Creteil
France
Telephone: 33 (1) 58 43 90 00
Fax: 33 (1) 58 43 90 01
E-mail: contact.france@mts.com

MTS Systems GmbH
Hohentwielsteig 3
14163 Berlin
Germany
Telephone: 49-30-81002-178
Fax: 49-30-81002-100
E-mail: euroinfo@mts.com

MTS Systems S.R.L.
Corso Cincinnato, 228/b
I-10151 Torino
Italy
Telephone: 39-011-45175-11
Fax: 39-011-45175-00.01
E-mail: mtstorino@mtsitaly.com

MTS Systems Norden AB
Södra Långebergsgatan 16
SE-421 32 Västra Frölunda
Sweden
Telephone: 46 31 68 69 99
Fax: 46 31 68 69 80
E-mail: norden@mts.com

MTS Systems Ltd. UK
Brook House
Sommerford Court
Sommerford House
Cirencester
Glos. GL7 1TW UK
Telephone: 44-1285-648800
Fax: 44-1285-658052

MTS Systems Corporation
14000 Technology Drive
Eden Prairie, MN 55344-2290 USA

ASIA/PACIFIC

MTS Japan—Tokyo
2-12-3 Midori Sumida-ku
Tokyo 130-0021
Japan
Telephone: 81-3-5624-6101
Fax: 81-3-5624-6106
E-mail: mtsj-info@mts.com

MTS Systems (Korea) Inc.
5th Floor, Core Building
8-1 Sunae-Dong, Bundang-Gu
Seongnam City,
Gyeonggi-Do 463-825,
Korea
Telephone: 82-31-714-7151
Fax: 82-31-714-7198

MTS Systems (China) Inc.
Unit 23-02, Landmark Bldg.
No. 8 North Dong
San Huan Road
Chaoyang District
Beijing 100004, PRC
Telephone: 86-10-65900931
Fax: 86-10-65900942
E-mail: mtsbj@163bj.com

MTS Systems (Hong Kong) Inc.
Rm 602, Golden Gate
Commercial Building
136-138 Austin Road
Tsim Sha Tsui,
Kowloon
Hong Kong
Telephone: 852-2301-2200
Fax: 852-2722-7240
E-mail: anthony@mtshk.com.hk

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