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At MTS, we understand how rapidly changing technology makes it difficult for our customers to maintain cutting edge testing programs. We have developed a new generation of Testing Systems that eliminate some of the challenges you now face.

We are leading the industry with a new modular controller system that is second to none. As technology changes, say "Goodbye" to the days of waiting on service technicians, telephone tag and needless expense. By taking the controls out of the QTest frame and placing them inside a separate box, our customers will be able to solve maintenance, or repair problems, as easily as plugging in a lamp.

The QTest frames consist of two parts - the load frame and the Elite control system. We couple this with a computer workstation and Testworks 4® Software.

The result is an Uncomplicated, yet sophisticated Material Testing System that is cost effective and reliable in QC/QA environments.

MTS Proudly Introduces
QTest
Universal Test Frames
featuring The Elite Modular Control System

• Affordable
• Increased Productivity
• Easy Installation
• Reduced Downtime

We took the brains out of our frames.

MTS is leading the Material Testing Industry with a new concept guaranteed to:
- Increase productivity
- Reduce Down Time
- Affordable

Testing Solutions For Quality Control & Assurance
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QTest

Universal Test Frames

featuring The Elite Modular Control System
State-of-the-Art
Control
The QTest Elite caters to change. The frame is built to last, and the new external control box can be easily upgraded as technology changes. But this is just one of the many benefits of the new Elite Control System.

Advantages of a Modular Test System:
• External control box improves productivity and decreases downtime
• Elite Control Electronics & TestWorks 4 Software
• Plug & Play
• Easy Installation
• Upgradability
• Common Electronics
• Extended Life
• CE Compliant
• Fast Delivery

The Elite also makes servicing your testing system easier and more reliable. A replacement controller can be stored on site. The external control box makes access to the electronics easier than ever before. As technology changes, upgrading the system is easier than ever. And since there is no interference from internal debris, downtime is virtually eliminated. The Elite control system will minimize service calls and costs.
The QTest product line is a complete family of affordable, easy-to-use testing systems. These universal testing systems were designed with quality testing as their main focus. All QTest systems are computer-controlled via our TestWorks 4 control software, which simplifies test setup and increases test data reliability and repeatability. Coupled with TestWorks 4 software, QTest gives you the capability to perform a variety of tests on most materials.

Because QTest is made by MTS Systems Corporation, you have the added advantage of buying a system from one of the world's largest, most reputable and innovative manufacturers of mechanical testing and simulation systems.

**Universal Teaching Tool**

QTest is also well suited for use as a teaching tool for material science. These systems are currently being used at leading universities around the world.
Why buy a fully integrated PC based system?

- Self diagnosises of electronics via software
- Intuitive test setup and control
- Simple service and support
- One-year warranty on all system electronics
- The ability to create your own test
- Built-in database for saving results and graphs
- Auto-calibration
- Auto-scaling
- Auto-ranging load and strain channels
- Password protection
- Built-in statistics
- Exportation of raw data in any file type
- Customization of software access to match user access level authorization

Low-cost systems ideal for quality control and research and development

The QTest is ideal for use in the quality control environment, where testing tends to be highly repetitive and high throughput is essential. The user-friendly TestWorks 4 software will enable you to place the system on your production floor for in-process testings which can improve the quality of your products through early detection of material deficiencies.

QTTest is suitable for a wide variety of testing applications for ASTM and ISO standards. The system is also ideal for simple product development and research applications involving basic monotonic tensile, flex, or compression testing. A variety of application templates are available to help you get the most out of your system purchase.

Testing Applications include:

- Quality control
- Research
- Product evaluation
- Flex (bend) testing
- Tear testing
- Tensile testing
- Compression testing
- Adhesion (peel) testing
- Shear testing
- Friction testing

Testable Materials include:

- Plastics
- Elastomers/Rubber
- Tapes
- Sheets
- Metal strips
- Yarns
- Medical products
- Electronic products
- Fasteners
- Packaging products
- Films
- Tissues
- Fibers
- Paper
- Wire
- Fabrics
- Consumer products
- Food products
- Tire cords
- Building materials
The QTest Family of Quality Control Testing Systems

Why should you consider a QTest system from MTS Systems Corporation?

- **Turnkey Testing Solution.** Your QTest system comes ready to test. Turn on the computer, load the test method, and begin testing. Spend less time reading manuals and more time getting results.
- **High Value.** QTest systems offer an unprecedented value for your testing lab. Nowhere else can you find a testing solution as affordable and tailored to your needs as the QTest system.
- **Complete PC Integration.** Work with a user-friendly interface and intuitive software that will guide you through your testing. Shape the software to fit the way you work.
  - **Predefined Testing Methods.** Most common ASTM and ISO test methods are predefined, making it easier for you to get up and run. Other templates are available as your lab requirements change or increase.
- **Reliable Design.** The QTest system is based on years of experience in designing our electromechanical products. With your QTest Elite system, you get the best design possible at an affordable price.
- **AC Brushless Servomotor.** All QTest systems feature AC brushless servomotors and amplifiers designed and built by MTS. Compared to other systems, our AC motors give you higher reliability, faster starts and stops, along with better speed, accuracy, and range.
- **Service and Support.** QTest systems are backed by our comprehensive telephone support. In addition, you have access to a network of field service engineers located in major industrial centers throughout the world.
- **Breadth of Accessories.** Choose from a variety of accessories to meet your testing requirements now and in the future. MTS testing accessories are durable and provide you with years of reliable operation.

The QTest 5, 10, and 25

The QTest 5, 10, and 25 systems are table-model machines with capacities up to 25 kN (5625 lbf), respectively. The design of these systems makes them the perfect choice for tensile testing of plastics, elastomers, metals and other material tests requiring extensometers. These machines are also suitable for flex, shear, peel, or compression tests on materials and components.

The QTest 1L and 2L

These systems are single-screw frames with capacities up to 2 kN (450 lbf). Each unit is ideal for paper, textile, fibers, and other applications that require low-force testing.
The QTest 100 and QTest 150

These floor-model frames feature capacities up to 150 kN (33,750 lbf), respectively. The QTest Elite 100 and 150 systems meet the needs of high-force applications, including metals, building materials, fasteners, and reinforced plastics.

The QTest 10LP, 25LP, 50LP, and MultiHead

These floor-model systems come equipped with capacities up to 50 kN (11,250 lbf), respectively. These unique "low profile" frames offer a 762mm wide (30 inch) testing area and an unparalleled depth of only 220mm (9 inches). With this smaller footprint, you can optimize your available lab space. These QTest systems are ideal for applications requiring a wide testing area, such as packaging cartons, furniture and finished products. The tables on these systems have been machined with bolt hole configurations to accommodate custom fixtures and T-slot tables. A new multihead option for high-throughput applications is now available.

The QTest 100 and QTest 150

These floor-model frames feature capacities up to 150 kN (33,750 lbf), respectively. The QTest Elite 100 and 150 systems meet the needs of high-force applications, including metals, building materials, fasteners, and reinforced plastics.

Contact your local sales representative for product literature on our new QTest Multihead.
TestWorks 4 Software

Sets the standard for material testing software.

QTest testing systems provide you with the advantage of industry-leading TestWorks 4 software. Unlike other software, TestWorks 4 software allows you to turn testing data into real information that your company can use.

Here is a sampling of some TestWorks 4 software features.

TestWorks 4 software 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.

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

The enhanced Virtual Control Panel™ feature 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.

Further increase your productivity with these additional features:

- Complete control over user privileges. Tailor each user’s account to match the appropriate experience level, keeping data safe and simplifying testing.
- Ability to create “choice” lists for operator input, such as comments, dimensions, sample information, and more. Operators choose from only the selections you provide; thus, eliminating typing errors and reducing testing time.
- Flexible reminders for prompting operators to use correct fixturing.
- Lockout feature to prevent testing if an improper load cell is used.
- Online help, including manuals, hypertext and links, www links, and context-sensitive help.

Contact MTS for your comprehensive TestWorks 4 software brochure.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com
Testing is as Easy as 1-2-3

1. **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.

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

3. **Report**
   - Choose from a variety of standard calculations or create your own custom formulas to analyze or reanalyze your data.
   - Create presentation-quality reports and plots from standard templates or customize your output for special needs.
**Enhanced Handset.** This remote handset allows you to perform standard functions, such as crosshead positioning and return, start/stop/pause, and displays operator messages about test status, performance and results. It can immediately tell an operator whether a specimen has passed or failed the test. Additionally, two programmable function keys are resident on the handset for remote initiation of custom commands.

**Service and Support**

Our service and support are the best available. That’s because QTest systems are made by MTS Systems Corporation, the largest mechanical testing and simulation systems manufacturer in the world.

- All QTest systems are shipped fully configured and ready for turnkey installation. Add your existing set of grips or fixtures or purchase one from our wide selection.
- A full staff of applications engineers is available for telephone support.
- On-site installation and training by a qualified applications engineer is available as an option.
- A network of worldwide field service is available to provide prompt field service and support.
- QTest customers are entitled to send user(s) to well-defined training courses at our facility in Cary, North Carolina.
- A variety of service plans are available to meet your needs, including annual systems calibration, software maintenance programs, and other programs. Our maintenance programs are designed to fit your budget and the way you work.

**Only MTS Frame Designs Feature:**

- **Custom Components.** An important part of any testing system is the drive mechanics. The quality of the drive system can affect position accuracies. A poor drive system can lead to erroneous or inconsistent test results.
- **AC Brushless Servomotor.**
  All QTest systems feature AC brushless servomotors and servoamplifiers manufactured by MTS. These motors are designed to provide higher reliability than the conventional DC motors found in most test systems. You won’t see these features on competitive systems: MTS-designed servomotors and amplifiers give you higher reliability, faster starts and stops, and better speed, accuracy, and range.

**High Elongation Extensometer**
• **Simple electronics.** All basic sensor, communication, and control functions are located on a single electronics card in the elite control system, increasing reliability and serviceability.

• **High torque.** Through a patented technique known as torque enhancement, MTS motors provide higher rotary force and stability.

• **Reliability.** The AC brushless servomotor has fewer moving parts, which reduces failure rate and increases productivity.

• **Accessories include:**
  4 Pneumatic grips
  4 Screw grips
  4 Cord/yarn grips
  4 Dumbbell grips
  4 Wedge grips
  4 Compression platens
  4 Flex fixtures
  4 Extensometers

Because we use industry-standard adapters, a wide range of third-party grips and fixtures can easily adapt to your system. We also offer a high-quality, high-elongation elastomeric extensometer, pictured at left for high elongation materials.

### Elite Control System Advantages

- **New digital control.** The latest digital technology gives you accurate results that are repeatable from test-to-test and from system-to-system.

- **Plug & Play technology.** Patent-pending sensor identification technology thoroughly automates the detection and integration of all system components. Vital configuration information is transferred to the control system prior to testing.

- **Advanced DSP technology.** Multiple DSP’s are dedicated to specific tasks within the electronics, ensuring unparalleled performance in speed control, data acquisition and plug & play transducer technology.

- **Dedicated A/D Converters.** Each sensor channel has a dedicated A/D converter synchronized from the same clock for simultaneous data collection.

- **Flexible sensor input.** All sensor channels can accommodate inputs from both analog and digital devices. Analog signals and direct digital signals can all be connected to any QTest system. Digital I/O signals are available for triggering and monitoring functions.

- **Overload protection.** If the load cell reaches an overload condition, the controller automatically stops the crosshead.

- **Communication.** Our electronics communicate through an industry-standard protocol found on virtually every personal computer made today, from notebooks to desktop systems.

- **Built-in service history.** The self-ID frame stores your service record in its memory to simplify maintenance.

---

![Advantage Pneumatic Grip Controller with Optional Foot-switch](image1)

![Advantage Pneumatic Grips](image2)
**QTest Elite Systems**

**Characteristics and Specifications**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>QTest Elite 1L</th>
<th>QTest Elite 2L</th>
<th>QTest Elite 5</th>
<th>QTest Elite 10</th>
<th>QTest Elite 25</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>1 kN (225 lbf)</td>
<td>2 kN (450 lbf)</td>
<td>5 kN (1,125 lbf)</td>
<td>10 kN (2,250 lbf)</td>
<td>25 kN (5,625 lbf)</td>
</tr>
<tr>
<td><strong>Crosshead Travel</strong></td>
<td>1,016 mm (40 in.)</td>
<td>1,016 mm (40 in.)</td>
<td>1,016 mm (40 in.)</td>
<td>1,016 mm (40 in.)</td>
<td>1,016 mm (40 in.)</td>
</tr>
<tr>
<td><strong>Width Between Columns</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td><strong>Loading Axis to Cover Clearance</strong></td>
<td>63.5 mm (2.5 in)</td>
<td>63.5 mm (2.5 in)</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td><strong>Maximum Speed</strong></td>
<td>1,016 mm/min (40 in/min)</td>
<td>1,016 mm/min (40 in/min)</td>
<td>1,016 mm/min (40 in/min)</td>
<td>1,016 mm/min (40 in/min)</td>
<td>1,016 mm/min (40 in/min)</td>
</tr>
<tr>
<td><strong>Minimum Speed</strong></td>
<td>0.05 mm/min (0.002 in/min)</td>
<td>0.05 mm/min (0.002 in/min)</td>
<td>0.025 mm/min (0.001 in/min)</td>
<td>0.025 mm/min (0.001 in/min)</td>
<td>0.025 mm/min (0.001 in/min)</td>
</tr>
<tr>
<td><strong>Return Speed</strong></td>
<td>1,016 mm/min (40 in/min)</td>
<td>1,016 mm/min (40 in/min)</td>
<td>1,016 mm/min (40 in/min)</td>
<td>1,016 mm/min (40 in/min)</td>
<td>1,016 mm/min (40 in/min)</td>
</tr>
<tr>
<td><strong>Capacity at Maximum Speed</strong></td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td><strong>Speed Accuracy (% of set Speed)</strong></td>
<td>0.25%</td>
<td>0.25%</td>
<td>0.25%</td>
<td>0.25%</td>
<td>0.25%</td>
</tr>
<tr>
<td><strong>Frame Stiffness</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>123 kN/mm (700,000 lbf/in.)</td>
<td>123 kN/mm (700,000 lbf/in.)</td>
<td>123 kN/mm (700,000 lbf/in.)</td>
</tr>
</tbody>
</table>

**Physical Characteristics**

<table>
<thead>
<tr>
<th></th>
<th>QTest Elite 1L</th>
<th>QTest Elite 2L</th>
<th>QTest Elite 5</th>
<th>QTest Elite 10</th>
<th>QTest Elite 25</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Height</strong></td>
<td>1524 mm (60 in)</td>
<td>1524 mm (60 in)</td>
<td>1702 mm (67 in)</td>
<td>1702 mm (67 in)</td>
<td>1702 mm (67 in)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>356 mm (14 in)</td>
<td>356 mm (14 in)</td>
<td>661 mm (26 in)</td>
<td>661 mm (26 in)</td>
<td>661 mm (26 in)</td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>356 mm (14 in)</td>
<td>356 mm (14 in)</td>
<td>508 mm (20 in)</td>
<td>508 mm (20 in)</td>
<td>508 mm (20 in)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>41 kg (90 lbs.)</td>
<td>41 kg (90 lbs.)</td>
<td>109 kg (240 lbs.)</td>
<td>109 kg (240 lbs.)</td>
<td>109 kg (240 lbs.)</td>
</tr>
<tr>
<td><strong>Machine Type</strong></td>
<td>Table Top</td>
<td>Table Top</td>
<td>Table Top</td>
<td>Table Top</td>
<td>Table Top</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>120 or 220/230 VAC, single phase (47-63Hz)</td>
<td>120 or 220/230 VAC, single phase (47-63Hz)</td>
<td>120 or 220/230 VAC, single phase (47-63Hz)</td>
<td>120 or 220/230 VAC, single phase (47-63Hz)</td>
<td>120 or 220/230 VAC, single phase (47-63Hz)</td>
</tr>
</tbody>
</table>

**Note:**
- Please consult your local sales representative for information regarding the MultiHead system.
- Load Channel Accuracy: Meets or exceeds ASTM E-4, ISO7500/1, EN 10002-2, DIN 51221, AFNOR A03-501 and BS1610.
- Strain Channel Accuracy: Meets or exceeds ASTM E-83, BS3846, ISO 8513 and EN 10002-4.
- Additional Strain Channels are Optional.

Specifications are subject to change without notice.

MTS, QTest and TestWorks are registered trademarks and ReNew is a trademark of MTS Systems Corporation.
At MTS, we continue to develop products and accessories based upon your feedback, and we constantly strive to improve the quality of testing throughout the world. Count on MTS to provide you with support for your specific needs. Our staff has helped numerous companies and organizations with solutions tailored to their testing requirements. Give us the opportunity to help you.

Contact MTS today.

<table>
<thead>
<tr>
<th>QTest Elite 10LP</th>
<th>QTest Elite 25LP</th>
<th>QTest Elite 50LP*</th>
<th>QTest Elite 100</th>
<th>QTest Elite 150</th>
<th>QTest Elite Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 kN (2,250 lbf)</td>
<td>25 kN (5,625 lbf)</td>
<td>50 kN (11,250 lbf)</td>
<td>100 kN (22,500 lbf)</td>
<td>150 kN (33,750 lbf)</td>
<td>N/A</td>
</tr>
<tr>
<td>1,219 mm (48 in.)</td>
<td>1,219 mm (48 in.)</td>
<td>1,219 mm (48 in.)</td>
<td>1,219 mm (48 in.)</td>
<td>1,219 mm (48 in.)</td>
<td>N/A</td>
</tr>
<tr>
<td>762 mm (30 in.)</td>
<td>762 mm (30 in.)</td>
<td>762 mm (30 in.)</td>
<td>558 mm (22 in.)</td>
<td>558 mm (22 in.)</td>
<td>N/A</td>
</tr>
<tr>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>N/A</td>
</tr>
<tr>
<td>508 mm/min. (20 in/min)</td>
<td>508 mm/min. (20 in/min)</td>
<td>508 mm/min. (20 in/min)</td>
<td>508 mm/min. (20 in/min)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>0.01 mm/min (0.0004 in/min)</td>
<td>0.01 mm/min (0.0004 in/min)</td>
<td>0.01 mm/min (0.0004 in/min)</td>
<td>0.005 mm/min (0.0002 in/min)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>508 mm/min. (20 in/min)</td>
<td>508 mm/min. (20 in/min)</td>
<td>508 mm/min. (20 in/min)</td>
<td>508 mm/min. (20 in/min)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>N/A</td>
</tr>
<tr>
<td>0.25%</td>
<td>0.25%</td>
<td>0.25%</td>
<td>0.25%</td>
<td>0.25%</td>
<td>N/A</td>
</tr>
<tr>
<td>88 kN/mm (500,000 lbf/in)</td>
<td>88 kN/mm (500,000 lbf/in)</td>
<td>88 kN/mm (500,000 lbf/in)</td>
<td>210 kN/mm (1,200,000 lbf/in)</td>
<td>210 kN/mm (1,200,000 lbf/in)</td>
<td>N/A</td>
</tr>
</tbody>
</table>

| 2387 mm (94 in.) | 2387 mm (94 in.) | 2387 mm (94 in.) | 2336 mm (92 in.) | 2336 mm (92 in.) | 540 mm (21.3 in.) |
| 1066 mm (42 in.) | 1066 mm (42 in.) | 1066 mm (42 in.) | 965 mm (38 in.)  | 965 mm (38 in.)  | 280 mm (11.0 in.) |
| 584 mm (23 in.)  | 584 mm (23 in.)  | 584 mm (23 in.)  | 660 mm (26 in.)  | 660 mm (26 in.)  | 630 mm (24.8 in.) |
| 449 kg (990 lbs.) | 449 kg (990 lbs.) | 449 kg (990 lbs.) | 676 kg (1490 lbs.) | 676 kg (1490 lbs.) | 23 kg (50 lbs.)  |
| Floor Standing   | Floor Standing   | Floor Standing   | Floor Standing   | Floor Standing   | Floor Standing   |
## REGIONAL BUSINESS CENTERS

### THE AMERICAS
- **MTS Systems Corporation**
  14000 Technology Drive
  Eden Prairie, MN 55344-2290
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  Telephone: 1-612-937-4555
  Fax: 1-800-777-1515
  E-mail: info@mts.com
  Internet: www.mts-emtd.com

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  92423 Ivry-sur-Seine cedex
  France
  Telephone: 33 (1) 46 70 11 80
  Fax: 33 (1) 46 58 35 14
  E-mail: contact.france@mts.com

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  Cainscross, Stroud
  Glos. GL5 4LF
  United Kingdom
  Telephone: 44-1453-751491
  Fax: 44-1453-751495

### NORTH AMERICA
- **MTS Systems Corporation**
  Electromechanical Material Testing Division
  1001 Sheldon Drive
  Cary, North Carolina 27513
  ISO 9001 CERTIFIED

### SALES AND SERVICE LOCATIONS

### NORTH AMERICA
- **Canada**
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  Toronto, Ontario
  Windsor, Ontario
  Mexico
  Mexico City
  Monterrey
  **United States**
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  Albany, NY
  Albuquerque, NM
  Alexandria, IN
  Atlanta, GA
  Austin, TX
  Berlin, NJ
  Boston, MA
  Celina, OH
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- **Venezuela**
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