

## MTS Model 836 Multiaxial Elastomer Test System

Realistic, repeatable durability testing in six degrees of freedom

### Easy to Install and Use

- » Compact, self-supporting design requires no facility modifications
- » Convenient bolt location enables fast specimen installation and removal
- » Multiple tests can be performed on the same machine without changing the specimen setup
- » Manual shutoff of each channel simplifies serviceability
- » Flexures at actuator ends require no greasing or adjustment

The MTS Model 836 Multiaxial Elastomer Test System sets a bold new standard for component durability testing. We listened to the requests of test professionals like you, and we responded with the world's first elastomer component durability test system that operates in six full degrees of freedom, providing you with the ultimate in precision control and measurement.

The system also features easy setup, low maintenance, and a compact footprint to make the most of your time and lab space.

With such realistic inputs, you'll be equipped to run durability tests on suspension bushing and engine mounts with unprecedented speed, accuracy, and efficiency. The MTS Model 836 multiaxial elastomer test system also features a high load capacity, along with a greater frequency bandwidth for more realistic test profiles.

### Absolute Test Accuracy

- » Measures in all degrees of freedom, facilitating highly accurate simulation of real-world loads and moments
- » High load capacity and frequency bandwidth for meeting a broad range of test requirements, including ride and handling applications
- » Innovative strut design requiring fewer bearings per degree of freedom
- » Low-friction actuator design
- » Adjustable bearings to help minimize friction and backlash
- » Lightweight specimen adapter to reduce inertial error

### Superior Compensation and Data Control

- » Precise control of forces in all degrees of freedom
- » High-stiffness design and air-cushion base to reduce extraneous vibration
- » Cartesian coordinate control capable of commanding in six degrees of freedom
- » Actuator coordinate control capable of commanding one actuator at a time
- » Acceleration compensation for reduced inertial errors in the force measurement

### Advanced Control Technology

The MTS Model 836 multiaxial test system can be used with the MTS FlexTest® GT Controller, which provides direct, digital control of all dynamic system functions. Featuring multi-channel and multi-station capabilities, this flexible controller can be expanded to accommodate up to four test stations, and can be set up to allow test management and control with multiple PCs.

### Industry-Leading Software

MTS RPC® Pro and cRPC® simulation software is world-renowned for helping vehicle test labs integrate advanced simulation and analysis capabilities into their durability testing, reducing both the costs of testing and the time required to validate test data.

### Unparalleled Service and Support

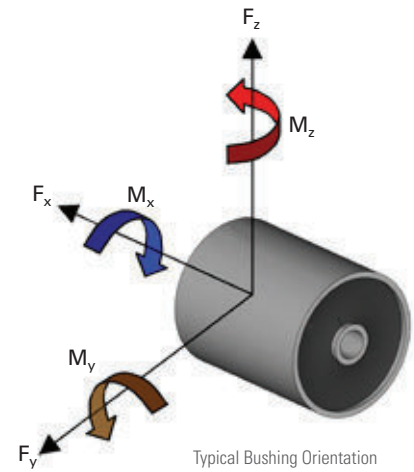
As an MTS customer, you have access to a comprehensive suite of global services and consultation, with more than 275 representatives covering 60 countries around the world. No matter where you do business, you can count on MTS for the expertise and responsiveness required to complete your testing initiatives, on time and on budget.

### For More Information

To learn more about how the MTS Model 836 multiaxial test system can add speed and precision to your testing, contact your MTS representative, visit [www.mts.com](http://www.mts.com) or e-mail [info@mts.com](mailto:info@mts.com).

### Technical Specifications

Range of Motion (Non-Simultaneous)	Force Capacity (Non-Simultaneous)
$x = y = z = +/- 25 \text{ mm}$	$F_x = 25 \text{ kN}$
$R_x = +/- 15^\circ$	$F_y = 50 \text{ kN}$
$R_y = R_z = +/- 5^\circ$	$F_z = 50 \text{ kN}$
	$M_x = 2 \text{ kN}\cdot\text{m}$
	$M_y = M_z = 12 \text{ kN}\cdot\text{m}$



An easy-access mounting assembly lets you quickly install and remove specimens.



A low-friction actuation scheme ensures utmost control and data integrity.



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ISO 9001 Certified QMS

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