System Brochure
eXpert 3910 Series Dynamic Testing Systems

Speed and Precision.

Fast acting universal testing machines for low force static and dynamic fatigue testing.

eXpert 3910 series fatigue testing systems feature efficient voice coil linear actuators for fast, high-cycle and low force fatigue applications. These systems are designed to test well into the millions of cycles while being quiet, clean and low maintenance.

Systems feature user adjustable actuators to accommodate a wide range of specimen lengths. A compact, single column, table-top design allows the system to fit almost anywhere.

Typical specifications for the eXpert 3910 line include:

- Short stroke 0-75mm
- Continuous forces up to 40N
- Use MTESTQuattro software controller to create user definable test methods

Customizable - Backed by superior engineering and a willingness to tailor a system to your testing needs.

Taller, shorter, wider, slower: Our engineering group will configure a design to meet your specifications.

Trusted - Expertly designed, engineered and supported for life.

- Exceeds all ASTM/ISO accuracy requirements.
- Fastest in the industry, an 8 kHz servo loop rate ensures accurate, repeatable, and reliable testing.
- All testing systems are supported for life.

Compression Setup
Capacitance probe measures displacement

Test with Certainty.
eXpert 3910 Series    Dynamic Testing Systems

System Specifications

Control - Perform static and dynamic fatigue tests. Generate plots and reports.

Systems are equipped with MTESTQuattro®, an advanced PC-based controller for dynamic fatigue testing. The controller provides an easy to learn and easy to use interface that enables the user to quickly create both simple and complex waveforms. MTESTQuattro® features five channels of high resolution input and an 8 kHz servo update period for precise closed loop control. It has the data acquisition, analysis and reporting capabilities to perform both static and dynamic fatigue tests.

Test with ADMET.
eXpert 3910 Series  Dynamic Testing Systems

Speed, Precision and Durability.

Control - Perform static and dynamic fatigue tests. Generate plots and reports.

The eXpert 3910 series fast testing speeds, high sampling rates and precise measurements enable the user to accurately perform low force tests. 3910 series systems are nimble enough to be equipped with gram-level load cells and nm/um level displacement transducers.

Controller

MTESTQuattro®

Interface  PC Software
Analysis  Extensive calculations library w/ built-in ASTM/ISO specification analysis.
Test Procedures  Use built-in or create an unlimited number of simple to complex procedures.
Reporting  Store and organize all data. View and print user customizable test reports with chart and tables.

Accessories - Grips, environmental chambers, extensometers, baths, cutting tools and more.

Systems can be equipped with a variety of grips, fixtures, environmental chambers and temperature controlled baths to accommodate a wide range of testing requirements. For more accurate strain measurements, extensometers or deflectometers can be added to any ADMET testing System.

Service and Calibration

Training and Service - ADMET testing systems are easy to learn and use. We provide introductory on-line training in addition to on-site training. We provide free phone and email product support through the life of the system. ADMET’s on-site service and calibration team includes over 100 individuals in over 40 locations in the USA.

Calibration - Customers can setup calibration contracts with ADMET or a private third party. All services meet ISO/IEC Guide 17025 and ANSI/NCSL Z540.

For more grips information, please visit http://admet.com/grips.htm