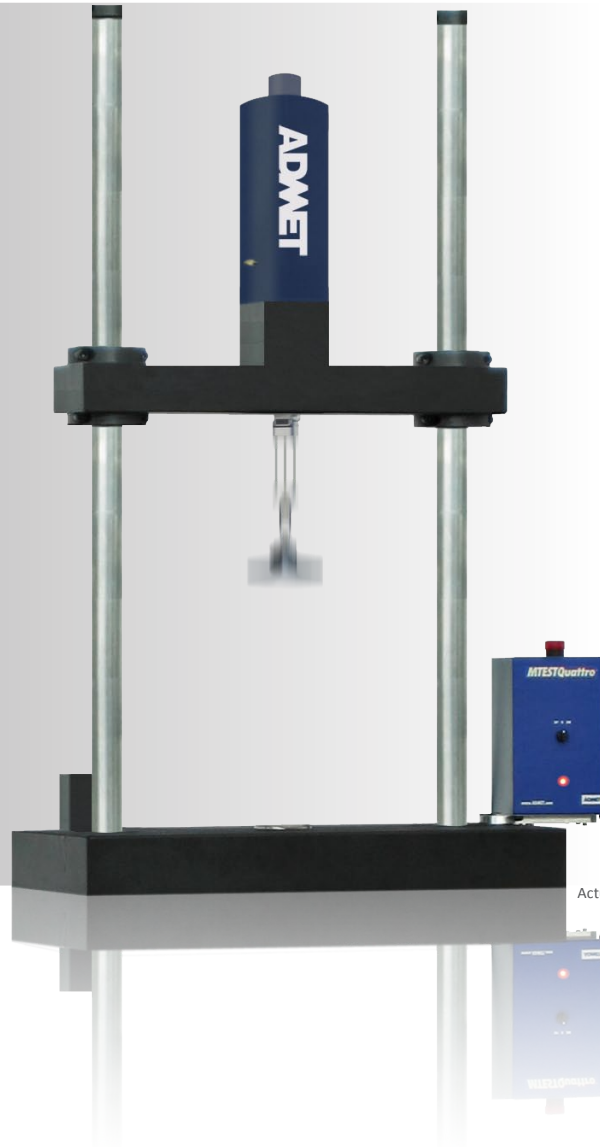


eXpert 2900 Series

Dynamic Testing Systems

ADMET

System Brochure



Actual design may change

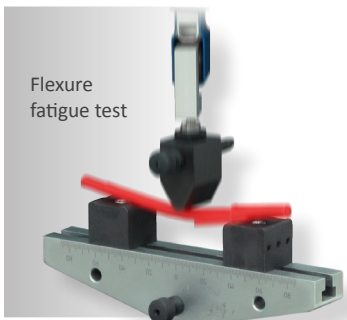
eXpert 2900 Series Dynamic Testing Systems

Speed, Precision and Durability.

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

The eXpert 2900 series dual column testing machines are compact units for determining the durability and mechanical properties of:

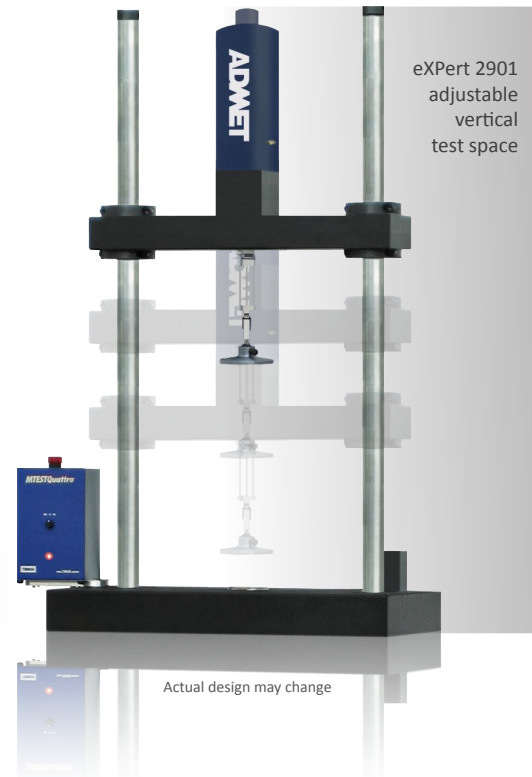
- Tissue, Cartilage and Bone
- Microelectronics
- Fibers
- Medical Devices
- Films
- Adhesives
- Foams
- Polymers
- Packaging
- Composites



Flexure fatigue test

The eXpert 2900 series machines feature efficient brushless DC tubular linear motors with high accelerations, exceptional accuracy and repeatability. These systems are quiet, clean (no hydraulic fluids) and low maintenance.

All 2900 series fast acting actuators are top acting and are mounted on a user adjustable top cross-head for accommodating a variety of specimen sizes and fixtures.

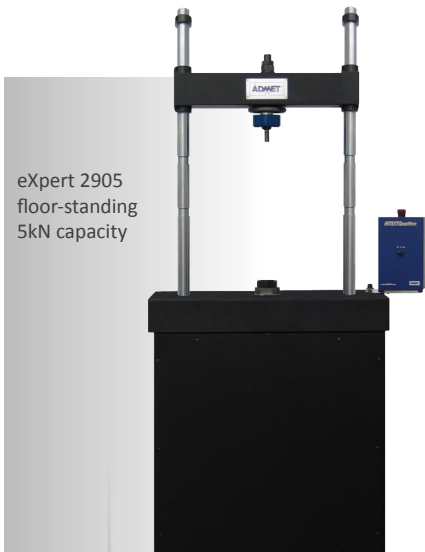


eXpert 2901 adjustable vertical test space

Actual design may change

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. A second actuator can also be added for performing biaxial tests.



eXpert 2905 floor-standing 5kN capacity

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.



Cyclic velcro pull off test

Test with Certainty.

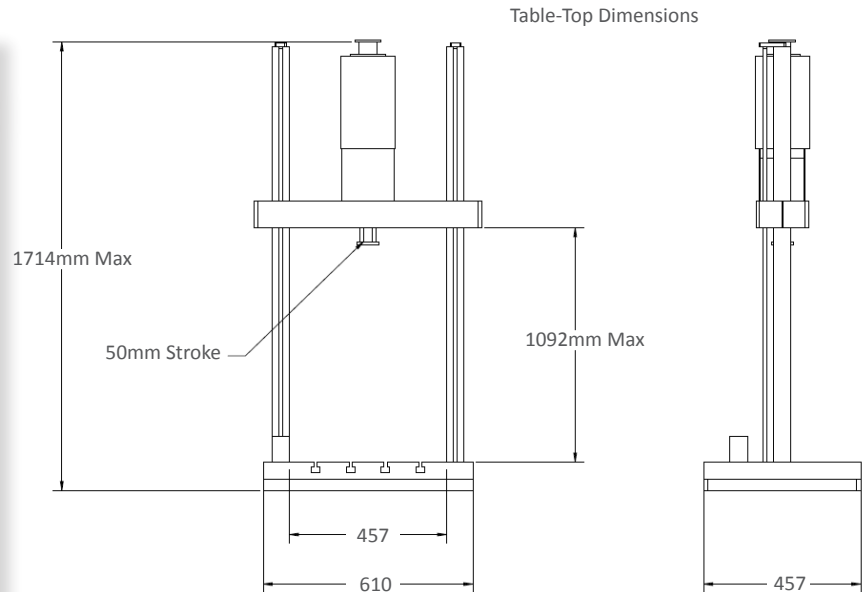
eXpert 2900 Series

Dynamic Testing Systems

Speed, Precision and Durability.

System Specifications

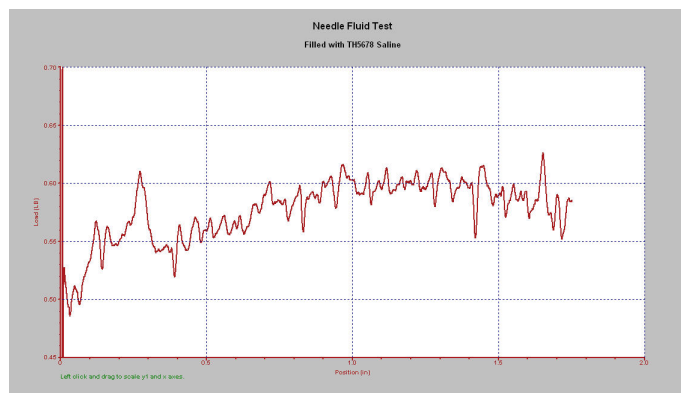
Model		2901	2903	2904	2905
Frame Type		Table -Top		Floor-Standing	
Continuous Force	kN lbf	0.35 80	0.75 170	2 470	5 1,125
Peak Force (3 sec)	kN lbf	1.3 310	2.9 660	4.3 970	2.2 500
Speed at 90% Continuous Force Capacity	mm/s in/s	177 7	190 7.5	203 8	475 18.7
Speed at 10% Continuous Force Capacity	mm/s in/s	711 28	762 30	838 33	838 33
Stroke	mm in	50 2	50 2	50 2	50 2
Position Resolution	µm µin	1 39	1 39	1 39	1 39
Current Voltage	Amp VAC	25 220 3 φ	25 220 3 φ	30 220 3 φ	30 220 3 φ



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.

The eXpert 2900 series fast testing speeds, high sampling rates and precise measurements enable the user to accurately perform low



Test with ADMET.

eXpert 2900 Series Dynamic Testing Systems

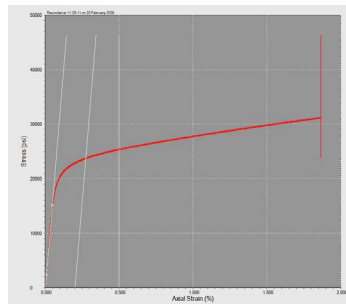
Speed, Precision and Durability.

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

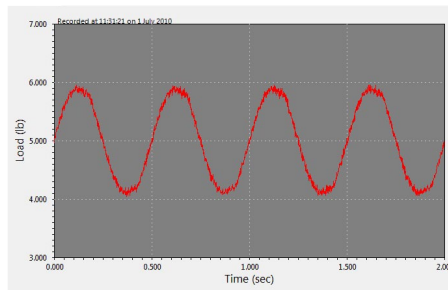
force tests. Whether it is simulating the in-situ use of a syringe; performing a quality check on the orifice of the needle or a low cycle fatigue test on the plunger seal, the eXpert 2900 series machines are up to the task. The eXpert 2900 series testers are also nimble enough to be equipped with gram level load cells and nm/ μ m level displacement transducers for measuring the mechanical and adhesive properties of tissues and films.



MTESTQuattro®

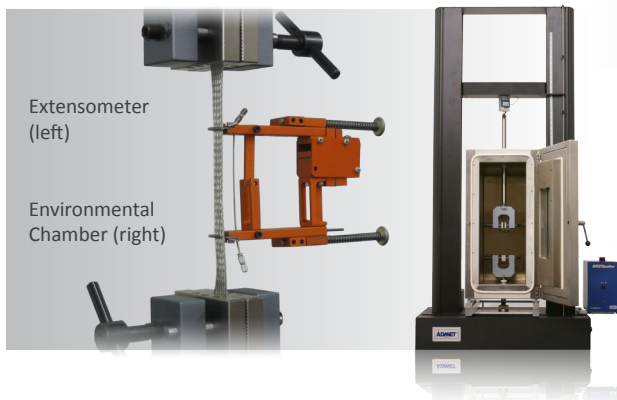


MTESTQuattro® static test analysis.



MTESTQuattro® dynamic test waveform.

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.



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

Service and Calibration

Training and Service - ADMET testing systems are easy to learn and use. We provide free introductory on-line training and, if needed, additional on-site training. Our manuals, tutorials, and trouble shooting guides are updated regularly. 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 party. All services are A2LA accredited and meet ISO/IEC Guide 17025 and ANSI/NCSL Z540.



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