

ADMET

Materials Testing Systems

eXpert 7600 Series®

Single Column Universal Testing Systems



Reliable Testing for Confident Results

ADMET eXpert 7600 Series Single Column Universal Testing Systems can perform tension, compression, flexure, and peel tests on a wide variety of specimens in an affordable and compact package. Efficient in design, 7600 machines **fit within a 483 by 533 mm (or smaller) space with force capacities ranging from 1 to 5 kN**. The eXpert 7600 series machines feature the industry's largest vertical test space, making them ideal for testing high elongation materials.



► All eXpert 7600 systems can be equipped with MTESTQuattro® or eP2® controllers.



eXpert 7600 with long-travel extensometer;
700mm or 1100mm options available.

System Highlights

Broad Applications: Test adhesives, biomaterials, elastomers, films, packaging, plastics, wires, textiles, and other materials with confidence.

Vertical Test Space: Test high elongation materials at speeds up to 2,540 mm/min (100 in/min). Extended height options add up to an additional 24 inches of elongation. Long travel extensometers are also available for precise strain measurement at high elongations.

Test Adaptability: The universal eXpert 7600 platform is capable of use with thousands of grips, fixtures, load cells, extensometers, and more.

System Specifications

MODEL		7601	7601 <i>XL7</i>	7602	7602 <i>XL7</i>	7603	7603 <i>XL7</i>
Load Capacity	<i>lbf</i>	225	225	562	562	1,125	1,125
	<i>kN</i>	1	1	2.5	2.5	5	5
	<i>kgf</i>	100	100	250	250	500	500
Maximum Speed	<i>in/min</i>	40	40	50	50	50	50
	<i>mm/min</i>	1,016	1,016	1,270	1,270	1,270	1,270
Minimum Speed	<i>in/min</i>	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
	<i>mm/min</i>	0.013	0.013	0.013	0.013	0.013	0.013
Maximum Force at Full Speed	<i>in</i>	175	175	450	450	900	900
	<i>mm</i>	0.75	0.75	2	2	4	4
Position Control Resolution	μ in	4.2	4.2	24	24	12	12
	μ m	0.107	0.107	0.61	0.61	0.308	0.308
Total Crosshead Travel ¹	<i>in</i>	29	53	41	54	41	54
	<i>mm</i>	735	1,345	1,041	1,372	1,041	1,372
Total Vertical Test Space ²	<i>in</i>	32	56	48	61	48	61
	<i>mm</i>	813	1,422	1,219	1,549	1,219	1,549
Lateral Test Space	<i>in</i>	3.5	3.5	3.4	3.4	3.4	3.4
	<i>mm</i>	89	89	86	86	86	86
Height	<i>in</i>	41	65	58.5	72	58.5	72
	<i>mm</i>	1,041	1,651	1,486	1,829	1,486	1,829
Width	<i>in</i>	16	16	19	19	19	19
	<i>mm</i>	406	406	483	483	483	483
Depth	<i>in</i>	12	12	21	21	21	21
	<i>mm</i>	305	305	533	533	533	533
Weight (est.)	<i>Lbf</i>	50	65	250	250	250	250
	<i>kg</i>	23	30	114	114	114	114
Single Phase Voltage	<i>VAC</i>	100-240	100-240	100-240	100-240	100-240	100-220
	<i>Hz</i>	50, 60	50, 60	50, 60	50, 60	50, 60	50, 60

1: Total crosshead travel is calculated without load cells, grips and fixtures. Longer strokes can be provided upon request, and extended column options add up to an additional 24 inches of elongation

2: Total vertical test space is the distance from top surface of base platen to bottom surface of moving crosshead, excluding load cell, grips and fixtures. Larger openings can be accommodated upon request.

Measurement Performance – ADMET offers best-in-class accuracies for repeatable and reliable testing



Load Measurement Accuracy: +/- 0.5% of reading down to 1/500 of load cell capacity. Meets or exceeds ASTM E4, BS/EN/ISO 7500-1: 2004, DIN 51221 and JIS B7721 standards. ADMET self-identifying load cells are offered with all systems.



Strain Measurement Accuracy: +/- 0.5% of reading down to 1/50 of full scale with ASTM E83 class B extensometers. Meets or exceeds ASTM E83 and BS/EN/ISO 9513:2002 standards.



Crosshead Position Accuracy: The greater of +/- 0.01mm or +/- 0.05% of displacement.



Test Control and Software Options

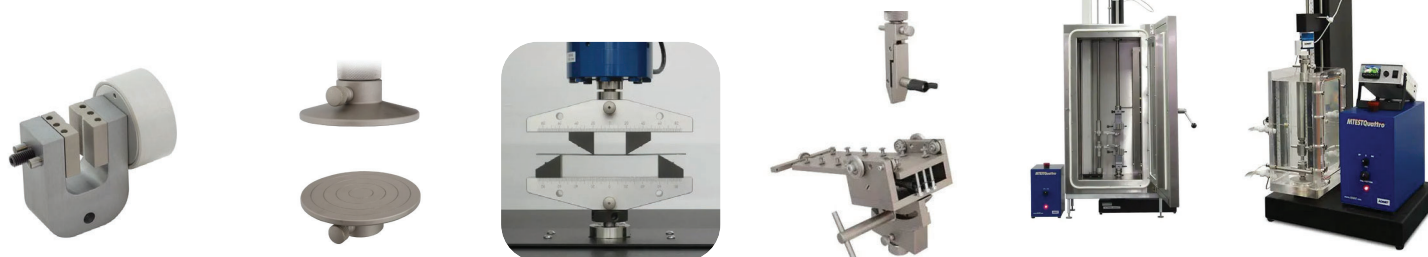
All ADMET Testing Machines can be equipped with one of two closed loop servo controllers. **MTESTQuattro®**, our most advanced testing system, is a PC-based unit that offers a wide range of flexibility in control, data acquisition, analysis, and reporting. The **eP2 Digital Controller**, a standalone touch panel unit, offers a balance between performance and simplicity. Both controllers feature 8 kHz servo update periods and programmable log rates to 1 kHz.



Interface	MTESTQuattro® (Windows Software)	eP2 (Touch Panel Controller)
Analysis	Extensive calculations library with built-in ASTM/ISO/EN specification analysis.	Standard calculation package for basic testing requirements and QC testing.
Test Methods	Use built-in or create an unlimited number of simple to complex test procedures.	Save up to six test procedures in eP2.
Reporting	Store and organize all data. View and print user customizable test reports with chart and tables.	Post test, view results on eP2 screen and send data to PC for reporting using optional GaugeSafe Software.

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 Training

ADMET strives to make its materials testing products powerful and easy-to-use. Free technical support is standard with the purchase of any ADMET product. We also offer an array of services to help you use your ADMET system to its fullest potential.

Available Services

- ✓ On-site installation and training.
- ✓ Custom analysis and report generation.
- ✓ Creation of, or connectivity to, your in-house database program.
- ✓ Online training with WebEx.
- ✓ On-Site ISO/IEC 17025:2017 Calibration Services.
- ✓ Preventative Maintenance Planning.
- ✓ Install, Operational Qualification (IQ/OQ) Documentation.

ISO/IEC 17025:2017 On-Site Calibration Services

ADMET provides a full range of calibration and maintenance services designed to fit your needs and budget. Our in-house calibration and service team has deep, hands-on knowledge of ADMET systems and is equipped to support you in any situation. Customers who require accredited calibrations in their laboratories or production facilities can establish calibration contracts with ADMET, ensuring automatic service at customer-defined calibration intervals. Proven maintenance programs help minimize downtime on production testing equipment, and each contract can be customized to match your specific equipment and operational requirements.

As a matter of course, we provide all calibration passwords to you at the time of your instrument or machine purchase. This enables you to choose who performs calibration and maintenance on your systems.

ASTM Calibration Standards offered:

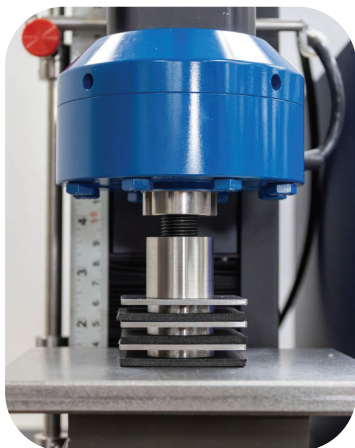
- ASTM E4 – Tension/Compression Force Verification
- ASTM E2309 – Crosshead Displacement Verification
- ASTM E2658 – Crosshead Speed Calibration
- ASTM E83 – Extensometer Verification and Classification
- ASTM E2624 – Torque Calibration



Submit An Inquiry At:
calibration@admet.com



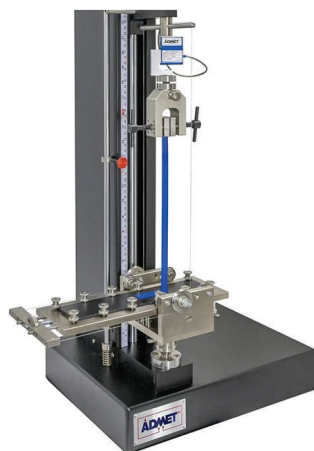
Application Gallery: eXpert 7600 Series



*ASTM F970 Recovery Testing
of Floor Panels*



*ASTM D412 Tensile Testing of
Vulcanized Rubbers and Elastomers*



*ASTM D3330 Peel Adhesion Testing of
Pressure-Sensitive Tape*



*ASTM D790 Flexural Testing of Unreinforced
and Reinforced Plastics*



All ADMET systems and software are designed,
engineered, and manufactured in the United
States.

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Test with Certainty.

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