

eXpert 7600 Series Universal Testing Systems

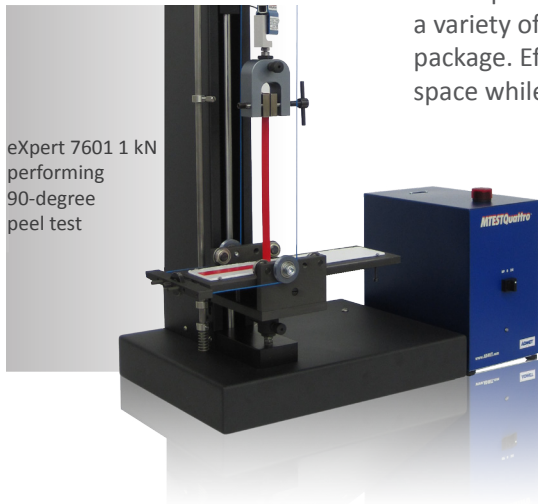
System Brochure



eXpert 7600 Series Universal Testing Systems

Efficiency, Flexibility and Performance

Single Column Universal Testing Machines for users who want the flexibility and reliability of a full-size system without the high cost or space requirements.



eXpert 7601 1 kN performing 90-degree peel test

The eXpert 7600 series machines are capable of performing a variety of mechanical tests in an affordable and compact package. Efficient in design, units fit within a 16 x 12 inch space while holding a force capacity of up to 5kN.

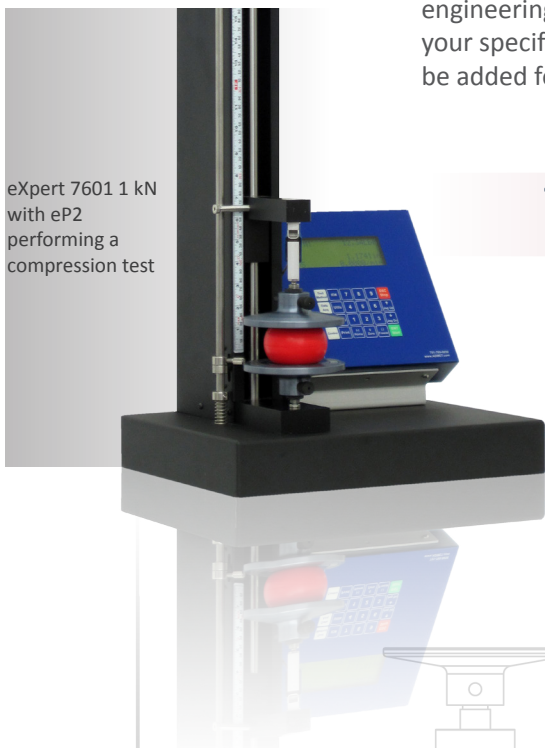
- Test adhesives, biomaterials, elastomers, films, packaging, plastics, wires, textiles, and other materials with confidence
- Test high elongation materials at speeds up to 2,540 mm/min (100 in/min). An extended height option adds 24 inches of elongation
- Class-leading vertical test space configuration available



eXpert 7601 1 kN with manual vice grips

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

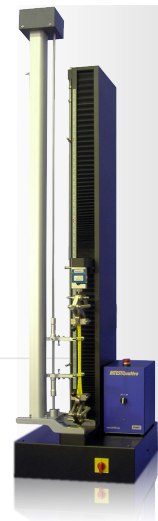
Taller, shorter, wider, faster, slower: Our engineering group will configure a design to meet your specifications. A second actuator can also be added for performing biaxial tests.



eXpert 7601 1 kN with eP2 performing a compression test

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 and made in the USA



eXpert 7603 5 kN with long-travel extensometer

Test with Certainty.

eXpert 7600 Series Universal Testing Systems

Efficiency, Flexibility and Performance

System Specifications

Model		7601 Table Top	7601 XLT Table Top	7602 Table Top	7602 XLT Table Top	7603 Table Top
Load Capacity	lbf	225	225	500	500	1,000
	kN	1	1	2.5	2.5	5
	kgf	100	100	250	250	500
Maximum Speed	in/min	40	40	100	100	50
	mm/min	1,016	1,016	2,540	2,540	1,270
Minimum Speed	in/min	0.0005	0.0005	0.0002	0.0002	0.0001
	mm/min	0.012	0.012	0.005	0.005	0.0025
Maximum Force at Full Speed	lbf	175	175	450	450	900
	kN	0.75	0.75	2	2	4
Position Control Resolution	μin	4.2	4.2	24	24	12
	μm	0.107	0.107	0.61	0.61	0.308
Total Crosshead Travel ¹	in	29	53	41	54	41
	mm	735	1,345	1,041	1,372	1,041
Total Vertical Test Space ²	in	32	56	48	61	48
	mm	813	1,422	1,219	1,549	1,219
Lateral Test Space	in	3.5	3.5	3.4	3.4	3.4
	mm	89	89	86	86	86
Height	in	41	65	58.5	72	58.5
	mm	1,041	1,651	1,486	1,829	1,486
Width (Frame Only)	in	16	16	19	19	19
	mm	406	406	483	483	483
Depth	in	12	12	21	21	21
	mm	305	305	533	533	533
Weight (est.)	lbf	50	65	250	250	250
	kgf	23	30	114	114	114
Maximum Power	VA	100	100	300	300	300
Single Phase Voltage	VAC	100-240	100-240	100-240	100-240	110-220
	Hz	50,60	50,60	50,60	50,60	50,60



Notes:

- Total crosshead travel is calculated without load cells, grips, and fixtures. Longer strokes can be accommodated by ordering an extended column frame.
- Total Vertical Test Space is the distance from the top surface of the base platen to the bottom surface of the moving crosshead, excluding load cell, grips and fixtures. Larger openings can be accommodated by ordering an extended column frame.

Load Measurement Accuracy: +/- 0.5% of reading down to 1/100 of load cell capacity. Meets or exceeds ASTM E4, BSENIS 7500-1: 2004, DIN 51221 and JIS B7721 standards. Optional extended range calibrations are available. ADMET self-identifying load cells are offered with all systems.

Crosshead Measurement Accuracy: Better than +/-0.5% of reading. Exceeds ASTM E2309.

Crosshead Speed Accuracy (Zero or constant load): Better than ±0.5% of set speed. Exceeds ASTM E2658.

Strain Measurement Accuracy: Meets or exceeds ASTM E83, ISO 9513, and EN 10002-4.

Test with ADMET.



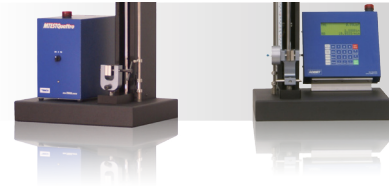
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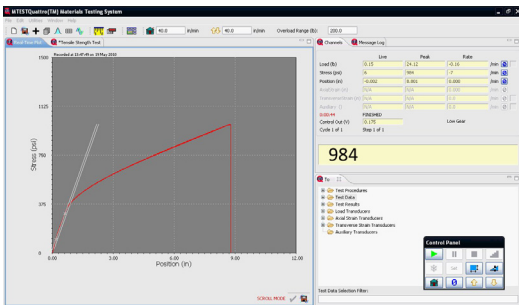
Efficiency, Flexibility and Performance

Controls and Software

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.



MTESTQuattro® (left)
eP2 (right)



MTESTQuattro® running on Windows

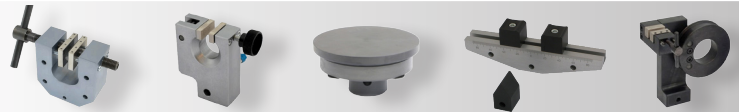
Controller	MTESTQuattro®	eP2 Digital Controller
Interface	PC Software	Touch Panel
Analysis	Extensive calculations library w/ built-in ASTM/ISO specification analysis.	Standard calculation package for basic testing requirements and QC testing.
Test Procedures	Use built-in or create an unlimited number of simple to complex 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 current results on eP2 screen and send data to PC for reporting using optional GaugeSafe software.



eXpert 7601 with environmental bath

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 both introductory on-line and 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.

