

## eXpert 2600 Series Universal Testing Systems



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**ADMET's most versatile Universal Testing Systems covering the widest range of applications and load capacities from 0.22 to 300 kN.**

eXpert 2600 series dual column testers tackle the toughest tests with their superior axial alignment, stiffness, and crosshead guidance. A simple design allows for lower cost, faster delivery, and years of maintenance free operation. All eXpert systems are capable of performing compression, tension, and flexure tests.

- **eXpert 2600 Dual Column Table Top Universal Testing Machines** are offered in force ranges from 0.22kN to 50kN. These bench top models provide the flexibility to test adhesives, biomaterials, composites, elastomers, metals, films, packaging, plastics, textiles, wires, webbing and other materials with confidence.
- **eXpert 2600 Dual Column Floor Standing Universal Testing Machines** range in capacities from 50kN to 300kN. They feature wider column spacings to accommodate large specimens, larger grips and fixtures, special test fixtures and full-size parts. The floor standing testers are commonly used for testing metals, composites, aerospace and automotive structures, fasteners, mechanical components, construction materials and webbing.



eXpert 2611 10kN  
Bench Top

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

ADMET offers both contacting and non-contacting extensometers for accurate strain measurement no matter the material or amount of elongation. A wide range of manual, pneumatic and hydraulic grips and fixtures are available for fast and repeatable loading of test samples. Each machine can be equipped with either a pushbutton standalone controller or MTESTQuattro®, our most advanced pc-based controller with software. Both controllers are capable of performing tests according to ASTM or ISO test standards and feature 1kHz data log rates with faster servo update rates which ensure precise control test to test.

**Trusted** - Expertly designed, engineered and supported for life.

In addition, ADMET is always willing to modify eXpert 2600 testers with supplementary actuators, specialized fixtures, larger grips and wider column spacings to accommodate large components, longer specimens or oversized temperature chambers.



eXpert 2654 100kN Extended Height



eXpert 2653 50kN Wide

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## System Specifications

Model		2601	2608	2610	2611	2612	2613	2653	2654	2655	2656	2657	2658
		Table Top	Table Top	Table Top	Table Top	Table Top	Table Top	Floor	Floor	Floor	Floor	Floor	Floor
Load Capacity	lbf	50	450	1,125	2,250	5,620	11,250	11,250	22,500	33,750	45,000	67,500	90,000
	kN	0.22	2	5	10	25	50	50	100	150	200	300	400
	kgf	22.68	200	500	1,000	2,500	5,100	5,100	10,200	15,300	20,400	30,600	40,800
Maximum Speed	in/min	2	100	40	40	20	20	20	20	20	20	20	20
	mm/min	50	2,540	1,016	1,016	508	508	508	508	508	508	508	508
Minimum Speed	in/min	0.00002	0.0002	0.0001	0.0001	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002
	mm/min	0.0005	0.005	0.0025	0.0025	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Maximum Force at Full Speed	lbf	50	450	1,125	2,250	5,625	11,250	11,250	22,250	33,750	45,000	67,500	90,000
	kN	0.22	2	5	10	25	50	50	100	150	200	300	400
Total Cross-head Travel <sup>1</sup>	in	29	48	48	48	46	46	43	42	42	44	51	50
	mm	735	1,219	1,219	1,219	1,168	1,168	1,092	1,067	1,067	1,117	1,300	1,270
Total Vertical Test Space <sup>2</sup>	in	42.5	54	54	54	52	52	49	48	48	52	60	59
	mm	1,078	1,371	1,371	1,371	1,320	1,320	1,245	1,219	1,219	1,321	1,524	1,499
Space Between Columns	in	12	16.8	16.8	16.8	16.8	16.8	22	22	22	22	22	22
	mm	300	426	426	426	426	426	558	558	558	558	558	558
Height	in	44	71	71	71	71	71	85	85	85	93	100	100
	mm	1,120	1,803	1,803	1,803	1,803	1,803	2,159	2,159	2,159	2,362	2,540	2,540
Width (Frame Only)	in	23	34	34	34	34	34	41	41	41	43	50	50
	mm	600	864	864	864	864	864	1,041	1,041	1,041	1,092	1,270	1,270
Depth	in	17.7	20.5	20.5	20.5	20.5	20.5	23	23	23	26	37	37
	mm	450	520	520	520	520	520	584	584	584	660	940	940
Weight	lbf	100	330	330	330	600	600	1,600	1,800	2,000	2,200	3,700	3,900
	kgf	45	150	150	150	275	275	730	820	910	1,000	1,700	1,800

### 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 1/500 of load cell capacity. Meets or exceeds ASTM E4, BSENIS 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 BSENISO9513: 2002 standards.

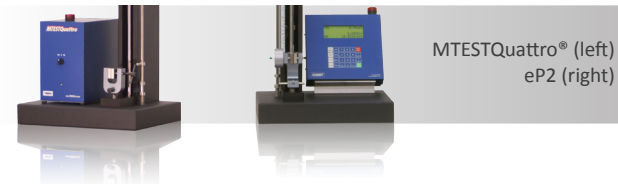
**Crosshead Position Accuracy:** The greater of +/- 0.01mm or +/- 0.05% of displacement.

Test with Certainty.

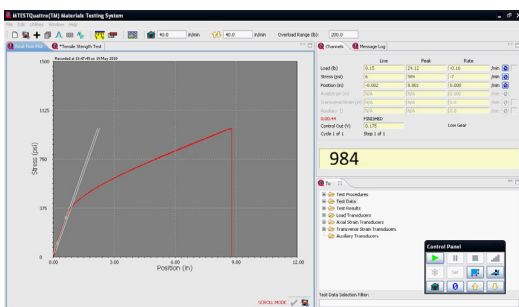
## eXpert 2600 Series Universal Testing Systems

### 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.

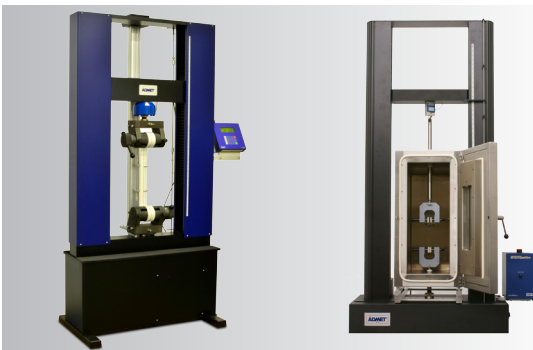


MTESTQuattro® (left)  
eP2 (right)



MTESTQuattro® running on Windows

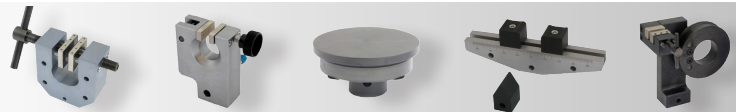
Controller	MTESTQuattro®	eP2 Digital Controller
Interface	PC Software	Touch Panel
Analysis	Extensive calculations library w/ built-in ASTM/ISO specification analysis.	Standard calculation package for basic testing requirements and QC testing.
Test Procedures	Use built-in or create an unlimited number 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 2654 100kN with long-travel extensometer (left) and eXpert 2610 5kN Table Top with Heating/Cooling Chamber (right)

### 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.

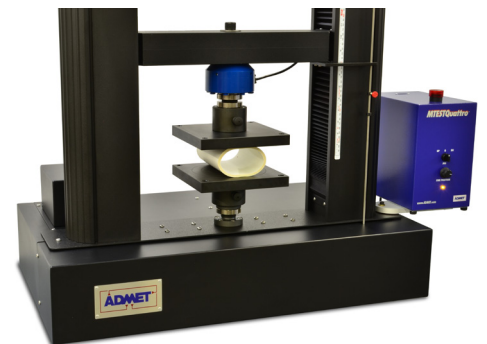
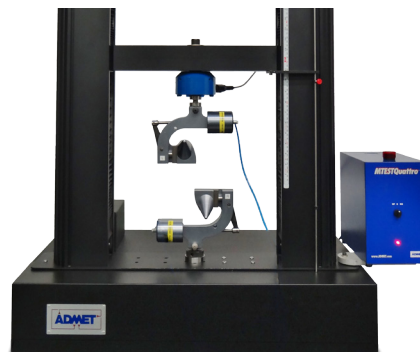
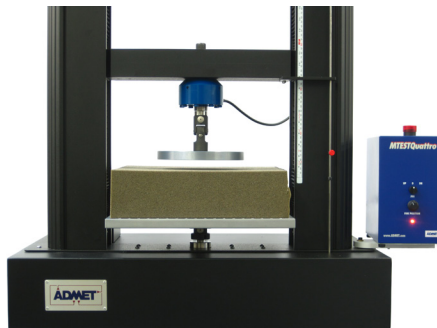
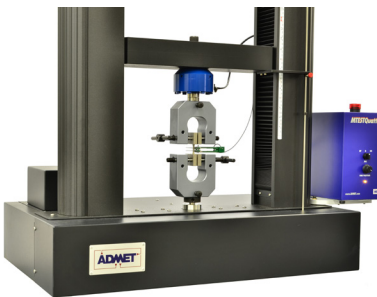
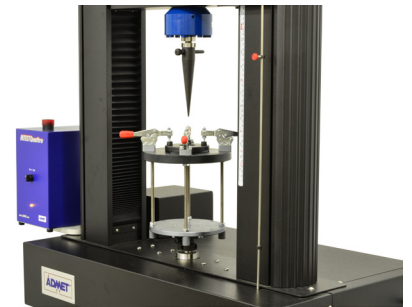
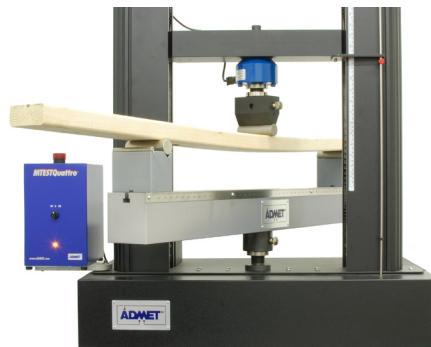
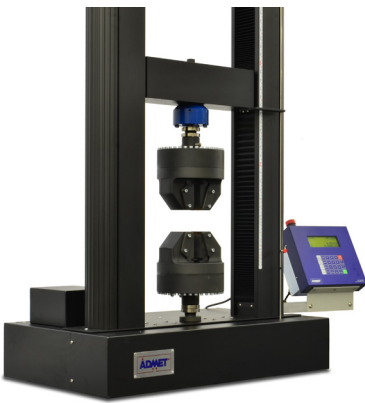
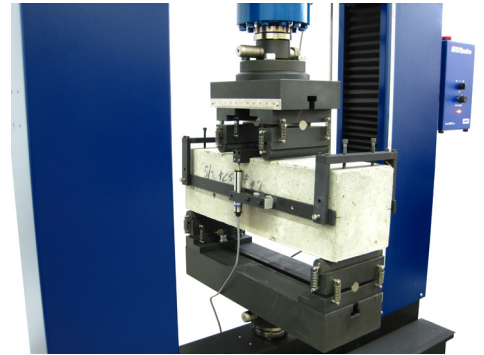
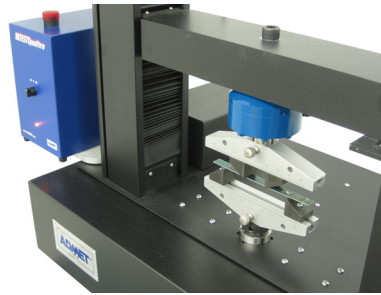
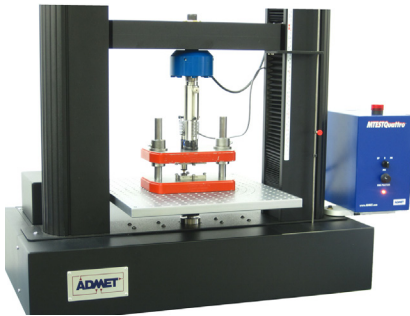


### Service and Calibration

**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.

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