

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.



eXpert 2654 100kN Extended Height

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.



eXpert 2653 50kN Wide

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.

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System Specifications

Model		2610	2611	2612	2613	2614	2653	2654	2655	2656	2657	2658	2659
		Table Top	Table Top	Table Top	Table Top	Table Top	Floor	Floor	Floor	Floor	Floor	Floor	Floor
Load Capacity	lbf	1,125	2,250	5,620	11,250	22,500	11,250	22,500	33,750	56,250	67,500	90,000	137,000
	kN	5	10	25	50	100	50	100	150	250	300	400	600
	kgf	510	1,020	2,550	5,100	10,200	5,100	10,200	15,300	25,500	30,600	40,900	62,200
Maximum Speed	in/min	40	40	20	20	20	20	20	20	20	20	20	20
	mm/min	1,016	1,016	508	508	508	508	508	508	508	508	508	508
Minimum Speed	in/min	0.0001	0.0001	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002
	mm/min	0.0025	0.0025	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Maximum Force at Full Speed	lbf	1,125	2,250	5,625	11,250	22,500	11,250	22,500	33,750	56,250	67,500	90,000	137,000
	kN	5	10	25	50	100	50	100	150	250	300	400	600
Total Cross-head Travel ¹	in	48	48	46	46	46	43	42	42	45	50	50	47
	mm	1,220	1,220	1,170	1,170	1,170	1,090	1,070	1,070	1,140	1,270	1,270	1,194
Total Vertical Test Space ²	in	54	54	52	52	52	49	48	48	51.5	60	59	60
	mm	1,370	1,370	1,320	1,320	1,320	1,240	1,220	1,220	1,310	1,520	1,500	1,520
Space Between Columns	in	16.8	16.8	16.8	16.8	16.8	22	22	22	22.63	22.63	22.63	22.63
	mm	427	427	427	427	427	559	559	559	575	575	575	575
Height	in	71	71	71	71	71	85	85	85	89	100	100	110
	mm	1,800	1,800	1,800	1,800	1,800	2,160	2,160	2,160	2,260	2,540	2,540	2,794
Width (Frame Only)	in	34	34	34	34	34	41	41	41	43	49	50	55
	mm	860	860	860	860	860	1,040	1,040	1,040	1,090	1,240	1,270	1,397
Depth	in	20.5	20.5	20.5	20.5	20.5	23	23	23	25	37	37	38
	mm	520	520	520	520	520	580	580	580	640	940	940	965
Weight	lb	330	330	330	350	425	1,600	1,600	2,000	2,500	3,700	3,900	4,400
	kg	150	150	150	160	195	730	730	910	1,150	1,680	1,770	1,957

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.

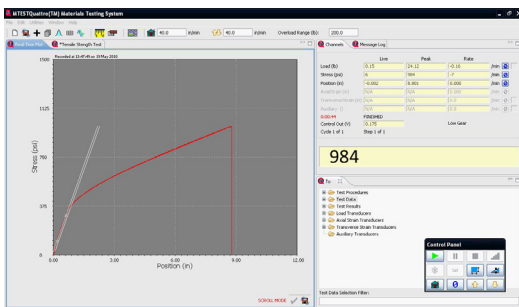
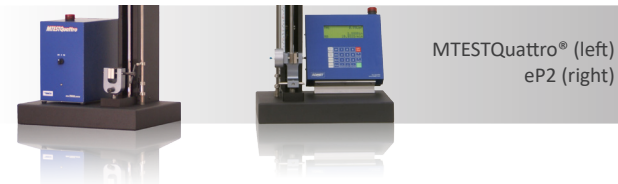
Crosshead Position Accuracy: The greater of +/- 0.01mm or +/- 0.05% of displacement.

Test with Certainty.

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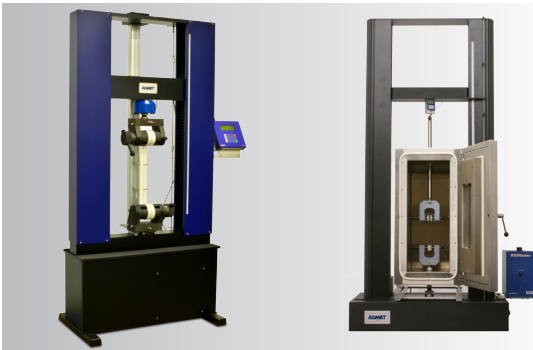
Controls and Software

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® running on Windows

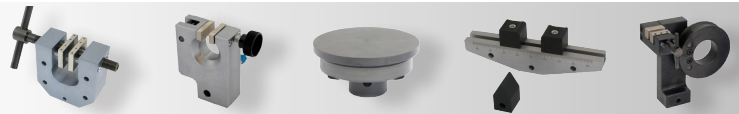
Controller	MTESTQuattro®	eP2 Digital Controller
Interface	PC Software	Touch Panel
Analysis	Extensive calculations library w/ built-in ASTM/ISO specification analysis.	Standard calculation package for basic testing requirements and QC testing.
Test Procedures	Use built-in or create an unlimited number 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.

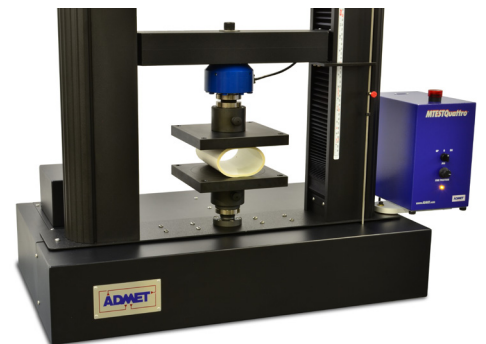
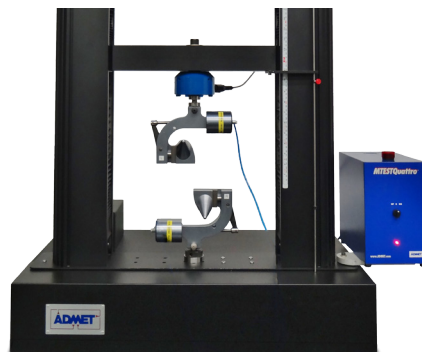
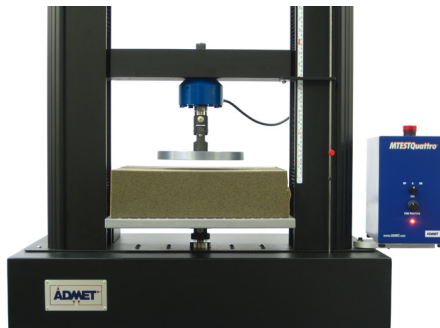
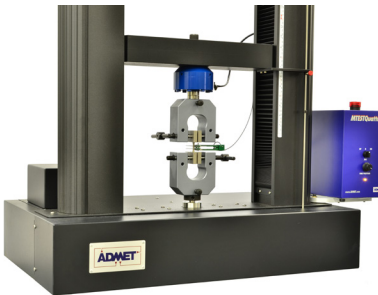
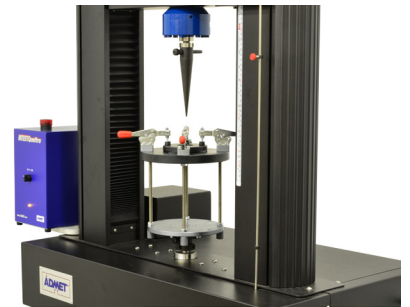
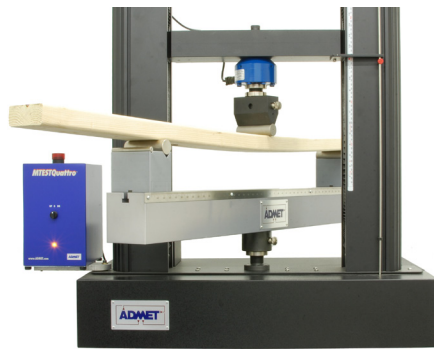
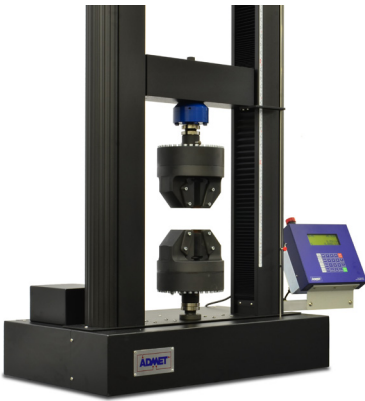
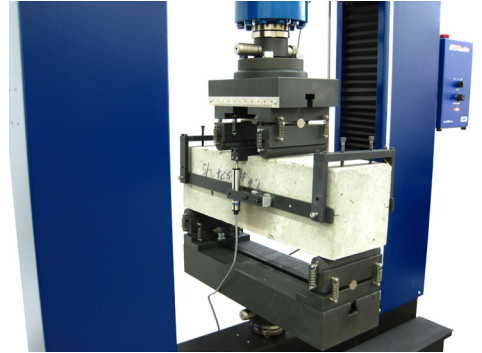
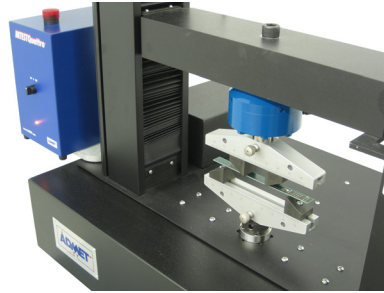
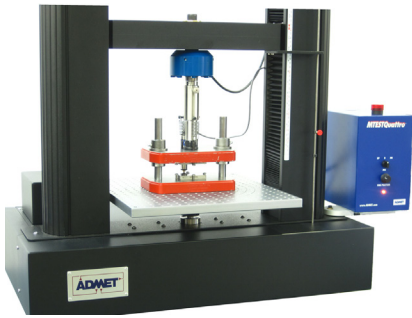


Service and Calibration

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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