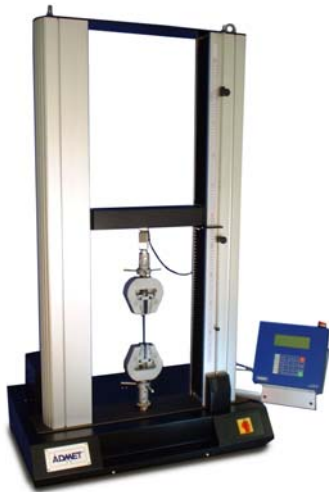


# eXpert 26xx Universal Testing Machines



eXpert 2611 TableTop with eP Digital Controller



eXpert 2653 Floor Model with MTESTWindows

**Twin screw electro-mechanical frames robustly designed for higher capacity testing with performance features that exceed your expectations!**

The ADMET eXpert 26xx series twin ball-screw universal testers are designed for users who want the power of a full-size system and the versatility to test materials, components and structures. Offered as bench top testers with capacities to 50KN and floor standing models with capacities to 150KN, the eXpert 26xx series machines tackle the toughest tests with their superior axial alignment, stiffness and crosshead guidance. The ADMET floor standing models feature wide column spacings to accommodate larger grips and fixtures, temperature chambers, special test fixtures and full-size parts. Equipped with a powerful digital closed-loop controller and display for QC/production applications, the eXpert 26xx machines are affordable, and are easy to learn and apply. For more demanding applications, ADMET's popular MTESTWindows Materials Testing System can be provided for greater productivity and testing power.

- Bench top models from 5KN to 50KN provide the flexibility to test biomaterials, wire, textiles, packaging, elastomers, plastics, films, foils and other materials with confidence.
- Floor Standing Models from 50KN to 150KN accommodate larger specimens and fixturing. With a variety of grips and fixtures, all eXpert machines are capable of performing tests in compression, tension and flexure.



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***For a Total Solution to all of your Materials Testing Needs***

## eXpert 26xx Features:

- Precision ball screw and fast acting servo motor provides controllability at very light loads and rigidity for loads to machine capacity.
- Integral operator station with emergency stop button, manual jog controls, load cell and extensometer connections, digital closed loop control and data acquisition electronics.
- Three fast acting digital controllers are available for accurate and repeatable testing.

The most economical and easy-to-use solution employs the **eP Digital Controller**. The eP is a stand-alone controller that features load and crosshead position inputs, enough memory to store 6 test methods, data analysis for measuring peak load, peak stress, load at extension, extension at load, average load, load at break, extension at break, stiffness and free height. The eP is ideal for product or QC testing and is capable of displaying pass/fail messages after each test based on user specified limits. Results can be uploaded to a PC via the on-board RS-232 serial port for import into test reports, spread sheets or database programs. Raw XY data can also be uploaded for further analysis or for generating load vs. deflection curves. The eP can be programmed to run at a constant rate until the specimen breaks, run to a load and hold for a user specified period of time, or cycle between load or position limits.



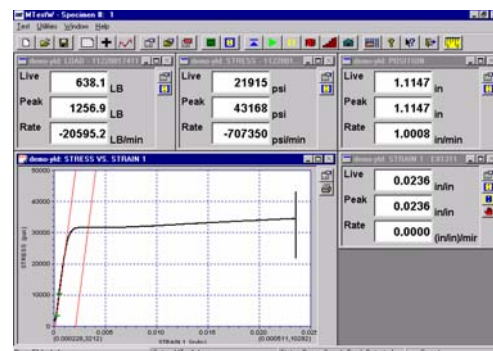
eP Digital Controller



Precise Digital Controller

Another stand-alone unit is the **Precise Controller**. The Precise Controller features a keypad, an upper LCD character display for user input and indication, a lower graphical display for viewing stress vs. strain curves plus push-buttons for test start and return to home. The Precise has the ability to perform closed loop load, position or strain controlled tests to sample break or to a user defined setpoint. Test results including date, time, specimen number, peak load, ultimate tensile strength, offset yield strength, modulus of elasticity, elongation at break plus raw data can be exported to a Windows based computer via the RS232 port.

The most powerful and versatile solution features **MTESTWindows**, ADMET's popular PC/Windows based materials testing system. Standard with MTESTWindows are inputs for load, crosshead position and axial strain. A comprehensive set of monotonic, segmented or cyclic servo control profiles under load, position or strain control is available which provides the capability to perform virtually any type of test. Test reports featuring test and specimen information, results and a stress vs. strain curve can be printed or readied for email. A statistical summary for a group of like tests can also be generated. All results or raw data can be exported to a database or spreadsheet program for further review.



MTESTWindows Live Screen

## ADMET Testing Systems - Backed by superior engineering and a willingness to work with you the customer to ensure that you get what you want.

A leading rope manufacturer approached ADMET about their need for a machine to test their high elongation ropes. ADMET did not have a standard machine that met their crosshead travel requirements, so our engineering group quickly modified an existing design to meet their needs. The result was a 15,000 LB capacity machine with an additional 24 inches of crosshead travel produced on-time and at an affordable price.



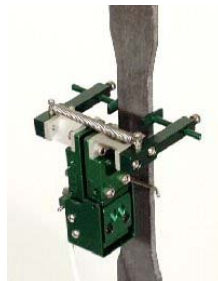
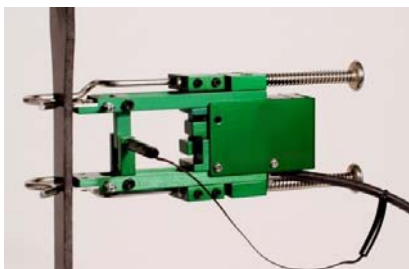
eXpert 2611 outfitted with an optional torsion actuator for bi-axial testing.

A medical device company wanted to twist their plastic specimens as they pulled them in tension. ADMET fitted a torsional actuator in the moving crosshead and a bi-axial tension/torsion cell in the base. The customer was then able to record axial force, axial displacement, torque and angle of twist.



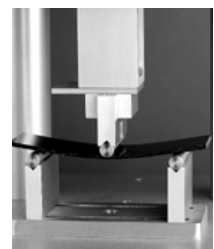
eXpert 2653 modified for 24 inches of additional crosshead travel.

## Extensometers and strain measuring for metals, plastics and other high elongation test specifications.



Connect to the Precise Controller or MTESTWindows Materials Testing System and perform tests to standards such as ASTM E-8, E-517 and E-646, D-638, ISO 6892 and 10275, and EN 10002 Part 1 and 10130.

## Grips and Fixtures for all your testing needs.



## eXpert 26xx Specifications

Model		2610 Table Top	2611 Table Top	2612 Table Top	2613 Table Top	2653 Floor	2654 Floor	2655 Floor
Load Capacity	lbf	1,125	2,250	5,000	10,000	10,000	20,000	30,000
	kN	5	10	25	50	50	100	150
	kgf	500	1,000	2,500	5,000	5,000	10,000	15,000
Maximum Speed	in/min	40	20	20	20	20	20	20
	mm/min	1,016	508	508	508	508	508	508
Minimum Speed	in/min	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	mm/min	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Maximum Force at Full Speed	lbf	1,125	2,250	5,000	10,000	10,000	20,000	30,000
	kN	5	10	25	50	50	100	150
Position Control Resolution	in	2.7	2.7	2.7	0.56	0.56	0.56	0.56
	mm	0.07	0.07	0.07	0.014	0.014	0.014	0.014
Total Crosshead Travel <sup>1</sup>	in	36	36	45	45	46	45	44
	mm	914	914	1,143	1,143	1,168	1,143	1,117
Total Vertical Test Space <sup>2</sup>	in	41.3	41.3	51	51	51	50	49
	mm	1,048	1,048	1,295	1,295	1,295	1,270	1,244
Lateral Test Space	in	--	--	--	--	--	--	--
	mm	--	--	--	--	--	--	--
Space Between Columns	in	15.8	15.8	16.5	16.5	22	22	22
	mm	400	400	420	420	558	558	558
Height	in	57	57	76	76	84	84	84
	mm	1,448	1,448	1,930	1,930	2,133	2,133	2,133
Width (Frame Only)	in	32.5	32.5	34	34	41	41	41
	mm	826	826	864	864	1,041	1,041	1,041
Depth	in	22.5	22.5	22.5	22.5	23	23	23
	mm	572	572	572	572	584	584	584
Weight	lbf	330	330	600	600	1,600	1,800	2,000
	kgf	150	150	275	275	730	820	910
Maximum Power	VA	300	300	500	800	800	1,400	2,000
Single Phase Voltage	VAC	110,220	110,220	110,220	110,220	110,220	110,220	220
	Hz	50,60	50,60	50,60	50,60	50,60	50,60	50,60

**Load Measurement Accuracy:** +/- 0.5% of reading down to 1/100 of load cell capacity. Meets or exceeds ASTM E4, BSENISO7500-1 : 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.

### Notes:

- 1) Total Crosshead Travel is calculated without load cells, grips and fixtures. Longer strokes can be accommodated by ordering an extended column frame.
- 2) 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.