

Materials Testing Systems

Universal Testing Systems
Configured for the Plastics Industry



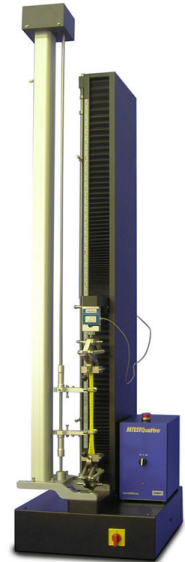
Materials Testing Systems

eXpert 7600

The eXpert 7600 series single column testing machines are capable of performing plastics tension, compression, flexure and peel/adhesion tests in an affordable and compact package.

Operators may choose this series to perform a range of ASTM tests including:

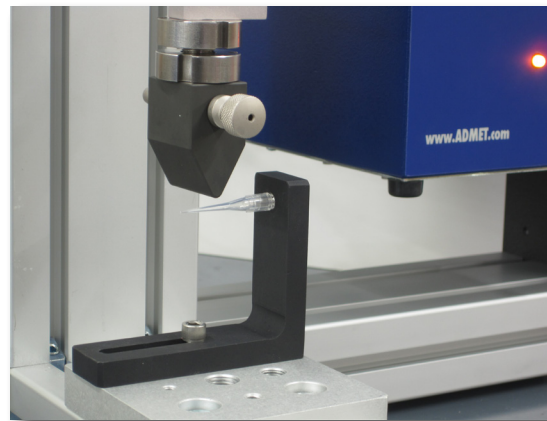
- D412: Vulcanized Rubber and Thermoplastic Elastomers—Tension
- D882: Tensile Properties of Thin Plastic Sheeting
- D3330: Peel Adhesion of Pressure-Sensitive Tape



eXpert 7603 with long travel extensometer



ASTM D790 three-point bend test



eXpert 5601 plastic pipette bend test

eXpert 5000

The eXpert 5000 series testing machines feature configurable frame components and a detachable actuator giving you the ability to configure your system in a variety of vertical or horizontal orientations. The 5000 series is ADMET's most affordable testing system.

Operators may choose this series to perform a range of ASTM tests including:

- D695: Compressive Properties of Rigid Plastics
- D1894: Static and Kinetic Coefficients of Friction of Plastic Film
- D3574: Flexible Cellular Materials—Urethane Foams



eXpert 5630F compression package

1-800-667-3220



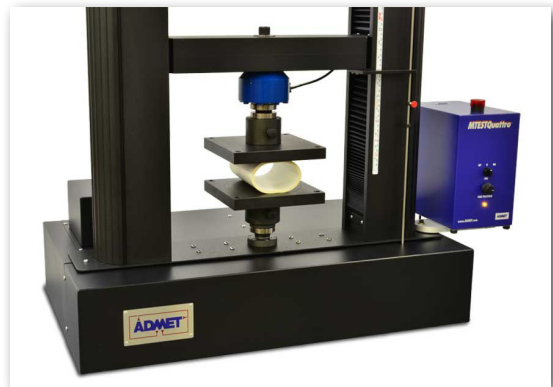
eXpert 2612 with environmental chamber

eXpert 2600

The 2600 series testing machines tackle even the toughest tests with their superior axial alignment, stiffness, crosshead guidance and max capacity of over 65,000 lbf. This highly configurable system can accommodate shortened or extended stroke, increased distance between columns or the addition of torsion actuators for biaxial tests and environmental chambers.

Operators may choose this series to perform ASTM tests including:

- D638: Tensile Properties of Plastics
- D695: Compressive Properties of Rigid Plastics
- D2412: External Loading Characteristics of Plastic Pipe
- Many more!

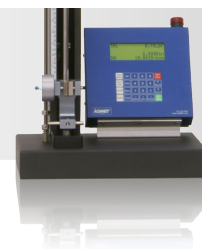


ASTM D2412 plastic pipe compression testing

ADMET makes it possible

ADMET's high-feature materials testing systems are found throughout the polymer industry. Our standard line of single and dual column electromechanical machines can test a wide range of materials from very thin films to very robust glass filled plastics. The systems feature servo controlled constant-rate-of-extension travel and exceed ASTM E4, the standard practice for force verification of testing machines that is required in order to perform many ASTM and ISO specifications. We also offer a large selection of grips, fixtures, and accessories specifically designed for plastic testing.

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 programmable log rates up to 1 kHz.



MTESTQuattro® (left)
eP2 (right)

Call (800) 667-3220 to talk to an engineer about your plastics testing application!

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Popular ADMET Systems for Plastics Testing

Model		5601	7601 XLT	7603	2611	2612	2657
Load Capacity	lbf	225	225	1,000	2,250	5,625	67,500
	kN	1	1	5	10	25	300
	kgf	100	100	500	1,000	2,500	30,600
Maximum Speed	in/min	25	40	50	40	20	20
	mm/min	635	1,016	1,270	1,016	508	508
Minimum Speed	in/min	0.001	0.0005	0.0001	0.0001	0.000002	0.000002
	mm/min	0.025	0.012	0.0025	0.0025	0.00005	0.00005
Total Crosshead Travel ¹	in	12	53	41	48	46	51
	mm	305	1,345	1,041	1,219	1,168	1,300
Total Vertical Test Space ²	in	32	56	49	54	52	60
	mm	813	1,422	1,244	1,371	1,320	1,524
Space Between Columns	in	Single	Single	Single	16.8	16.8	24
	mm	Column	Column	Column	425	425	609

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.

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. 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.

**To see ADMET's full line of products,
visit us at www.ADMET.com**

About ADMET

ADMET is a high-feature universal test machine manufacturer based in Norwood, Massachusetts. In 1986, Richard Gedney, CEO and founder of ADMET, graduated from Northeastern University in Boston with a degree in Mechanical Engineering. By 1988, he had graduated from MIT with a master's degree in mechanical engineering and by 1989 he had formed Advanced Machine Technology, later shortened to ADMET.

Over the next 9 years, ADMET built an enviable reputation building software and controllers for a large range of electromechanical and servohydraulic materials testing machines. The software and controller packages were implemented on not only new systems but also as retrofits and upgrades where testing challenges proved too much for existing competitor equipment. The culture that exists within the company today was built in those early days, solving a plethora of engineering problems in the mechanical testing and measurement systems world.

By 1998, it was time to translate that deep engineering expertise and develop a complete line of products and systems. In 1999, the original eXpert 5600 system was introduced and over the next decade ADMET continued to invest in its product family, launching many product ranges covering tension, compression, flexure and peel/adhesion tests. The company has expanded aggressively into the end user market and now sells to over a dozen industries including automotive, aerospace, biomedical, construction, plastics, metals, test labs, and university sectors as well as major government agencies. Customers include Lawrence Livermore National Lab, GE, DuPont, Boeing, US Steel, John Deere, Bechtel, Medtronic, and Harvard Medical School. ADMET customers are located in over 48 countries.



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